Connections Matter:
To Whom Much is Given, Much is Expected
RECOGNIZING OUTSTANDING ALUMNI, 2017 GRADUATES, SERVICE LEARNING STUDENTS, FACULTY RESEARCH MENTORS & RESEARCH INTERNS

Friday, May 12, 2017 at 6:00 p.m.
Buffalo Niagara Marriott
1340 Millersport Highway
Amherst, NY 14221
Congratulations CSTEP on 30 years helping talented students achieve success!

Full-time MBA | Masters of Science in Accounting, Finance, Management Information Systems and Supply Chain and Operations Management

University at Buffalo
School of Management

mgt.buffalo.edu

Congratulations to the CSTEP Graduating Class of 2017!

“Celebrating Communities of Excellence: Humanity, Justice, Environment, Innovation, and Health”

Cora P. Maloney College
University at Buffalo
225 Norton Hall
Buffalo, NY 14260
cpmc.buffalo.edu
PROGRAM ORDER
“TO WHOM MUCH IS GIVEN, MUCH IS EXPECTED”

WELCOME
Shanna Crump-Owens
Director, Collegiate Science & Technology Entry Program (CSTEP)

OPENING REMARKS
Teresa A. Miller
Vice Provost for Equity and Inclusion

MOMENT OF SILENCE

BUFFET DINNER

SLIDE SHOW

SPEAKERS
Olivia Bradley • Buihe Madu/Jasmine May • Christina Aponte

AWARDS PRESENTATIONS:
OUTSTANDING SERVICE AWARD

RESEARCH INTERNS AND MENTORS
OUTSTANDING FACULTY RESEARCH MENTORS OF THE YEAR
Dr. Glennia Bett • Dr. Alice Cescaneanu • Dr. John Crassidis • Dr. Karthik Danu • Dr. Margarita Dubocovich
Dr. Hillard Kutsch • Dr. Supriya Mahajan • Dr. Heather Orom • Dr. Natesh Parashurama
Dr. Richard Rabin • Dr. Ravi Ranade • Dr. Salvatore Rappocci • Dr. Laura Rusche

OUTSTANDING ALUMNI AWARDS
STUDENTS OF THE YEAR
Christina Aponte • Kaylan LaCicero
GRADUATING STUDENTS OF THE YEAR
Aaron Nimako • Gbawosin Onyido
CSTEP EXCELLENCE SCHOLARSHIP RECIPIENTS
COMMUNITY HEALTH EDUCATORS
GRADUATING CLASS OF 2017

CLOSING REMARKS
Shanna Crump-Owens
Director, Collegiate Science & Technology Entry Program (CSTEP)

CSTEP STAFF
2016-2017

DIRECTOR
Shanna Crump-Owens

ADMINISTRATIVE ASSISTANT
Patricia “Tia” Greer

GRADUATE ASSISTANTS
Rebecca Borowski
Orlando Dickson
Chelsea Gonzalez
Michael Marrero
Natalia Marte
Khadijat Olagoke
Nelson Rivera

RESEARCH METHODS COURSE INSTRUCTOR
Lavone Rodolph

STUDENT ASSISTANTS
Ashley Solomon

CSTEP SCHOLAR PLEDGE

We connect the vision embedded in the Collegiate Science & Technology Entry Program to a world in transition. “To whom much is given, much is required.” We commit to be a learning community, dedicated to empowering and transforming our lives and the lives of others and connect to the vision embedded in the CSTEP program. This vision provides the motivation and energy for bringing about a world that appreciates the wealth of diversity found among the different cultures in our community. Using our collective knowledge and experience as future STEM or licensed professionals, we seek to advance social justice by valuing and nurturing the expansion of learning, intellectual inquiry, critical thinking, and community service.
CONGRATULATIONS TO OUR GEMS, CLASS OF 2017, RESEARCH INTERNS, CAMPUS HEALTH EDUCATORS (CHE), CSTEP AMBASSADORS, CSTEP EXCELLENCE SCHOLAR RECIPIENTS, RESEARCH MENTORS, AND STUDENT AWARENESS. THIS EVENT RECOGNIZES YOUR ACCOMPLISHMENTS AND CONTRIBUTIONS TO THE COMMUNITY, BOTH ON AND OFF-CAMPUS. IT PROVIDES US WITH AN OPPORTUNITY TO REFLECT ON OUR ROLE OF SUPPORTING AND PREPARING TALENTED UNDERREPRESENTED STUDENTS Pursuing ScienCes, technology, engineering, and mathematics (STEM) AS WELL AS THE LICENSED PROFESSIONS. IN 1987, THE NEW YORK STATE LEGISLATURE CREATED THE COLLEGIATE SCIENCE AND TECHNOLOGY ENTRY PROGRAM (CSTEP) TO ADDRESS THE STATUS OF UNDERREPRESENTED NEW YORK STATE STUDENTS IN THE LICENSED PROFESSIONS AND STEM CAREERS. SINCE THEN, GRANT FUNDING FOR CSTEP HAS BEEN INCORPORATED INTO THE ANNUAL BUDGET OF THE STATE EDUCATION DEPARTMENT.

OUR PROGRAM HAS GROWN TO SERVE STUDENTS 400 STUDENTS. CSTEP FOSTERS A SENSE OF COMMUNITY AND ACHIEVEMENT BY SUPPORTING THE HOLISTIC DEVELOPMENT OF WELL-ROUNDED INDIVIDUALS FOR PROFESSIONAL CAREERS, GRADUATE EDUCATION, COMMUNITY ENGAGEMENT, AND LIFELONG ACHIEVEMENT. EACH YEAR, CSTEP STUDENTS PARTICIPATE IN PAID RESEARCH INternSHIPS, GRADUATE SCHOOL PREPARATION, SERVICE-LEARNING, COMMUNITY SERVICE, TUTORING, AND TARGETED PROGRAMMING AS CENTRAL PROGRAM ACTIVITIES.


DURING THE PAST 30 YEARS, CSTEP HAS MADE MAJOR strides, AND THERE IS STILL MUCH WORK TO BE DONE. WE REALIZE OUR PROGRAM AND STUDENT SUCCESS COULD NOT TAKE PLACE WITHOUT THE COLLECTIVE COLLABORATIONS WITH NUMEROUS INDIVIDUALS – PARTICULARLY OUR FACULTY RESEARCH MENTORS, AND STAFF IN THE UNIVERSITY AT BUFFALO COMMUNITY, COLLEGE COLLABORATORS AND COMMUNITY PARTNER, UNYTS. WE ARE GRATEFUL FOR YOUR SUPPORT.

WE REMIND YOU OF OUR THEME OF “TO WHOM MUCH IS GIVEN, MUCH IS EXPECTED.” RECOGNIZE THAT YOU HAVE A GREAT RESPONSIBILITY TO GIVE BACK, TO LEAD WITH YOUR RESOURCES, EDUCATION, TIME, AND TALENTS. FIND YOUR NICHES TO SERVE AND GIVE BACK. PLEASE KEEP IN TOUCH.

Arthur O. Eve (Democrat-Buffalo) was elected to the New York State Assembly in 1966. During his first term in 1967, Assemblyman Eve spearheaded an effort that led to an increase of $50,000 in funding to establish the SEEK/ Educational Opportunity Program within the State University System of New York. With regard to education, Deputy Speaker Eve initiated legislative projects which are designed to assist economically disadvantaged minority students reach their educational objectives. Included in these programs are the Collegiate Science and Technology Entry Program (CSTEP), the Higher Education Opportunity Program (HEOP), the Regents Professional Opportunity Scholarships and Health Care Professional Opportunity Scholarships.

In 1985, he sponsored statewide hearings to focus attention on the minority dropout rate, which resulted in the commissioning of the report: Dropping Out of School in New York State. The Invisible People of Color, which was prepared by the African American Institute. This was the first time that African-American, Latino, Native-American, and Asian educators, as well as, community leaders came together to offer an analysis and solutions to this problem.

During his career of public service, many believe that Mr. Eve has done more to initiate opportunities for minorities and the economically disadvantaged in the field of educational opportunity, undergraduate and graduate education, medical degrees, and career than any other state legislator in the nation.

Mr. Eve is a graduate of West Virginia State University; a life member of the NAACP; founder and former Chairman of the Board of the Northern Region Black Political Caucus whose purpose is to promote political education and participation in the African-American community; and former Chairman of the New York State Chapter of the National Rainbow Coalition. He is the recipient of numerous awards and citations from an array of local, state and national organizations.

Mr. Eve is now retired and lives in Buffalo, New York with his wife, the former Constance Bowles. They have five children: Arthur Jr., “CHAMP”, father of six children; Lecia, Eric, and twins: Malcolm and Martin.

A PROUD STATEWIDE HISTORY

For the last 30 years, the Collegiate Science and Technology Entry Program (CSTEP) has been at the forefront of efforts to help underrepresented students succeed in Science, Technology, Engineering, Mathematics (STEM) fields and licensed professions. CSTEP was established as a legislative response to recommendations in an Action Paper commissioned by the New York State Board of Regents in 1986. This paper addressed the problem of the lack of diversity in the STEM workforce and revealed the severe consequences underrepresentation of minority groups in STEM fields and licensed professions at the state and national levels.

CSTEP demonstrates New York State’s commitment to the elimination of barriers which impede educational development and access to STEM careers and the licensed professions for underrepresented students. The program provides academic enrichment activities ranging from individual and small group tutoring via the Academic Resource Center (ARC) Tutorial Lab to paid internship and research experiences, graduate school preparation, mentoring, workshops, and scholarships for standardized exam preparation as well as cultural and social events. Statewide, CSTEP has had over 26,000 students graduate from the program with approximately 6,000 students served each year and has grown from 23 to 55 programs.

AN INTRODUCTION TO THE PROFESSION

To help students obtain information about STEM careers and the licensed professions, a variety of activities take place within CSTEP to provide mentoring and shadowing activities for students. There are also opportunities placing students into research labs with faculty research mentors to provide them with hands-on experiences. Professionals, faculty and CSTEP alumni facilitate workshops, become mentors, and often act as introductory means of professional networking for students by hosting field trips to corporate and research sites. By providing advisement, workshops, and seminars, CSTEP exposes students to the tools necessary for success both inside and outside of the academic environment.

PUTTING STUDENTS FIRST

CSTEP has shown an ability to grow and evolve for 30 years by putting the needs of students first. CSTEP has learned to survive, thrive, and evolve through times of fiscal crisis. Since the program is dependent on yearly state funding, students and staff learned how to advocate for the programs in times of fiscal crises and has grown through both periods of prosperity and recession. In February, students from CSTEP statewide successfully advocated against the proposed state budget cuts that would have reduced funding to the existing 46 CSTEP Programs. During the past decade the UB CSTEP Program has tripled in size and increased the scope of the program to include summer research and service learning components. As a result, additional funding was awarded based on the positive accomplishments of the programs.

As a flexible, dynamic and innovative program, it is necessary for CSTEP to build strong collaborations with other federal, state and campus programs. Plans are being developed to strengthen existing relationships with the McNair Program, Educational Opportunity Program (EOP), SUNY Louis Stokes Alliance for Minority Participation (SUNY AMP), and the Science Technology Enrichment Program (STEP). With a strong base of support from students, professionals, host campuses and alumni, CSTEP can continue to flourish by focusing on replenishing one of New York State’s most precious resources: our future professionals.
MENTORING
CSTEP Programs view mentoring in the broadest context; using relationships among students and with faculty and staff to provide comprehensive services to students that build their skills, improve their performance and lead to individual and program success. Programs are given the opportunity to implement components in the ways that suit campus needs and use resources most effectively. As a result of statewide and regional meetings, research conferences and a professional organization, there are rich opportunities to share successes and look at barriers. Therefore, programs are constantly changing and improving.

Mentoring activities are important to building a sense of community. Mentors provide positive role models, and equip students with research skills, as well as critical thinking and problem solving skills. Mentoring relationships are critical precursors to graduate study, and encouraging student persistence in rigorous STEM majors.

To help students attain realistic information about STEM careers and the licensed professions, a variety of activities take place that provide career mentoring. Also, the CSTEP Advisory Board has established job shadowing activities for pipeline students.

PEER MENTORING
CSTEP Programs recognize the power and effectiveness of students receiving services from students like themselves who are with them or ahead of them in the career pipeline. Therefore, opportunities have been built into the programs for peer mentoring experiences. Relationships between students CSTEP are key to program success and peer mentoring relationships are fostered via informal get-togethers where students can get advice and support. CSTEP works closely with professional organizations such as National Society of Black Engineers (NSBE) and Society of Hispanic Professional Engineers (SHPE) to provide leadership training and cosponsor conferences attended by CSTEP students.

GRADUATE TO UNDERGRADUATE INTERACTION
The interaction between graduate and undergraduate students has increased due to a stronger emphasis on graduate education within the CSTEP Program. Graduate students serve as research lab mentors, and provide workshops regarding the graduate school application process and research skills. Graduate students are also presenting colloquia about their research to the undergraduate students. For 10 years, CSTEP hosted a Statewide Minority Graduate School Awareness Conference. The statewide conference theme was “Beyond the Bachelor’s Degree.” The conference hosted 300 students from 25 colleges and 55 Graduate representatives from colleges and universities in the Northeast. This conference was co-sponsored by 2 NSF programs, SUNY LSAMP and SUNY AEGP, and other CPMC Programs.

PROFESSIONAL DEVELOPMENT
CSTEP staff continually looks for ways to improve the program and see professional development as critical to program success. Together, NYS and CSTEP have formed a strong professional organization, the Association of Program Administrators of CSTEP and STEP (APACS), which plays a pivotal role in program advocacy efforts and professional development. APACS works with NYSED personnel to sponsors meetings and trainings for staff during the CSTEP Student Research Conference.

Programs are grouped into 10 geographic regions that also provide training and advocacy functions. The CSTEP Technology Conference takes place to bring program professionals up to date on technological trends. Other key conferences for professional development include the Pre-Professional Career Conference which brings the latest information on the status of underrepresented students in STEM disciplines and the Best Practices Conference which provides CSTEP professionals with the platform to share new developments, ideas, and information.

RESEARCH & INTERNSHIPS
The integration of research and coursework has become increasingly important as research experiences have been shown to increase student success, help students choose a STEM or licensed profession, and aid in decisions to attend to graduate school. Since 1993, the program has sponsored a Statewide Student Research Conference for formal presentations of student research which features a research poster competition.

For the past 10 years, CSTEP has hosted a Summer Research Program. The summer component is an intensive 8.5-week program to enhance the competitiveness of talented students pursuing the allied health professions and Science, Technology, Engineering, and Mathematics (STEM). The program strengthens participants' research skills and exposes them to the rigors of graduate study. Students are matched with faculty to conduct research. In addition to research, students participate in a research methods seminar, workshops, community service, and fieldtrips. The capstone of the summer program is the Annual Research Symposium in which interns present their research to their peers and the University community.

LONG TERM SIGNIFICANCE
In the 30 years of the CSTEP, there have been significant accomplishments made by students and the program. Measurable accomplishments, both qualitative and quantitative, have occurred in the following areas:

<table>
<thead>
<tr>
<th>ACCOMPLISHMENT</th>
<th>INDICATORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serve underrepresented students in STEM and the licensed professions</td>
<td>Program enrollment by ethnicity</td>
</tr>
<tr>
<td>Increased academic performance</td>
<td>Grade point average</td>
</tr>
<tr>
<td>STEM coursework</td>
<td>Undergraduate STEM majors</td>
</tr>
<tr>
<td>Enhanced pathways to next level of study</td>
<td>Standardized test preparation, enrollment in graduate and professional school</td>
</tr>
<tr>
<td>Integration of research</td>
<td>Research and internship placements, presentations at research conferences</td>
</tr>
<tr>
<td>Career information</td>
<td>Internships, shadowing activities and mentoring</td>
</tr>
</tbody>
</table>
UB CSTEP offers the following programs and services:

**Paid Research Internships**

CSTEP funds students to get the experience they need to succeed. The CSTEP Research Internship Program provides an opportunity for students to gain career and hands-on research experiences in their chosen field of study. Students complete research relevant to their career interests, which helps them make informed career and graduate school choices. Our interns work with faculty and other off-campus research mentors.

**Tutoring**

CSTEP students have access to the CPMC Academic Resource Center (ARC) Tutorial Lab which offers tutoring in courses identified as consistent challenges for students, including anatomy, biology, calculus, chemistry, pharmacology, physiology, physics, and engineering.

**Funding Opportunities for Conferences**

CSTEP covers travel expenses for selected academic, career, and graduate school conferences and enrichment programs. These opportunities boost students’ leadership skills, while building their resumes.

**Scholarships for Graduate School Preparation**

CSTEP awards scholarships to students for Kaplan Review Courses, which provide preparation for standardized graduate entrance exams, including the GRE, MCAT, LSAT, GMAT, and PCAT exams.

**Summer Research Internship Program**

The CSTEP Summer Research Fellowship Program is an 8.5-week program designed to enhance the competitiveness of underrepresented students pursuing the allied health and STEM professions. In addition to their research experience, students participate in a research methods course, seminars, and fieldtrips. At the end of the program, students present their research to peers and faculty at the CSTEP Research Symposium & Luncheon.

**Student of Excellence Scholarship**

Awarded to one active CSTEP continuing student and one graduating senior attending graduate school at UB. The CSTEP Student of Excellence Scholarship is given to those who exemplify academic distinction by demonstrating a commitment towards scholarly excellence and community service. This competitive scholarship is supported by donations given by alumni, staff, and generous supporters of the CSTEP program.

**WHAT’S IN IT FOR ME?**

THE PERKS OF JOINING UB CSTEP

Graduate School Fee Waiver

CSTEP students can have their graduate school application fee waived when applying to select graduate school programs. This gives our students the confidence to apply to multiple graduate schools, greatly reducing the cost of applying. In addition, fee waivers play a vital role by increasing the diversity and competitiveness of applicant pools to STEM and graduate programs leading to the licensed professions.

Support from the CSTEP Network of Staff, Students, and Alumni

We offer academic, career, and personal counseling to assist students in overcoming difficult situations, finding solutions, and establishing their priorities. The CSTEP alumni network expands program capacity via CSTEP Connect.

Monthly Events, Workshops, and Enrichment Activities

Monthly meetings help build the camaraderie our students have come to rely on. Students who attend our monthly meetings gain invaluable advice as they have the opportunity to learn from other students’ experiences and receive professional advice from alumni and guest speakers. Below is a list of several of this year’s workshops and enrichment activities:

- CSTEP Welcome Back BBQ
- CSTEP’s Guide to Professionalism
- CSTEP Shadow Day
- Maximize Your Potential!
- Rx for Success Seminar (Pharmacy/Medical School)
- CSTEP Day of Service
- Effective Study Skills
- Time Management

Examples of CSTEP Careers

Architect • Audiologist • Biologist • Dietitian • Certified Public Accountant • Chemist • Chiropractor • Computer Scientist • Dentist • Geologist • Engineer • Lawyer • Mathematician • Medical Doctor • Nurse Practitioner • Occupational Therapist • Occupational Therapy Assistant • Optometrist • Pharmacist • Physical Therapist • Physician • Podiatrist • Psychologist • Physician Assistant • Registered Nurse • Respiratory Therapist • Social Worker • Speech-Language Pathologist • Veterinarian
UB CSTEP HIGHLIGHTS

CSTEP addresses the shortages of underrepresented students both in the Science, Technology, Engineering, Mathematics (STEM), and the licensed professions. Resources available to CSTEP students include: paid research with faculty, internships, graduate school preparation, scholarships for standardized test preparation, academic and career advisement, tutoring, monthly seminars, travel to professional conferences, and a support network to assist promising students in achieving their academic and professional goals.

During our previous grant cycle, CSTEP received the Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM). This award, administered by the National Science Foundation (NSF), recognizes individuals and organizations that have demonstrated a commitment to mentoring students and increasing the participation of minorities and women in Science, Technology, Engineering, and Mathematics (STEM). Awardees serve as exemplars to their colleagues in the national effort to develop the nation’s human resources in the STEM professions.

**DID YOU KNOW…?**

- More than 90% of UB CSTEP students have entered into the CSTEP targeted professions or attended graduate school after obtaining their bachelor's degree.

- More than half of all CSTEP Students possess overall GPA’s above 3.0.

- Last year, UB CSTEP exceeded our program enrollment goal of 400 students.

- Since the program’s inception, UB CSTEP has awarded over 150 CSTEP/Kaplan scholarships to students in preparation for standardized graduate school exams (PCAT, MCAT, GMAT, LSAT, and GRE).

- This year, CSTEP and CURCA sponsored 11 students, staff, and alumni, including 5 students who presented their research at the 25th Annual CSTEP Statewide Conference: Journey’s Beyond Excellence in Lake George, NY.

- This year, 34 CSTEP students were placed in funded research internships and completed over 7,000 hours.

- To help provide service to our students, CSTEP has hired a cadre of approximately 90 Graduate and Student Assistants to work within our office. This provides funding for the staff during their time as graduate and undergraduate students at UB.

- This year, there are 45 students in CSTEP’s graduating class. Congratulations, Class of 2017!

THE FOLLOWING SET OF PERFORMANCE MEASURES AND GOALS WERE USED TO DETERMINE THE SUCCESS OF CSTEP PROJECTS AND STUDENTS STATEWIDE:

**PERFORMANCE OUTCOME MEASURES**

**UB CSTEP PROGRAM**

A. Percentage of CSTEP students matriculated in programs leading directly to professional licensure.

B. Percentage of CSTEP graduates matriculating in graduate/professional schools and employed in CSTEP careers.

C. Percentage of CSTEP graduates applying for professional licensure.

D. Percentage of CSTEP students enrolled in nursing and engineering programs.

E. Average number of CSTEP students participating in research and/or internship opportunities.

*Based on figures from the previous grant cycle (2015–16).*
## CSTEP Research Interns Details 2015-16

<table>
<thead>
<tr>
<th>Semester</th>
<th>Students</th>
<th>Hours</th>
<th>Total Hours</th>
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<tbody>
<tr>
<td>Summer</td>
<td>22</td>
<td>388</td>
<td>8,536</td>
</tr>
<tr>
<td>Academic Year (Fall &amp; Spring)</td>
<td>34</td>
<td>143</td>
<td>4,850</td>
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<tr>
<td>Summer &amp; Academic Year Combined</td>
<td>56</td>
<td>531</td>
<td>13,386</td>
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### 2016 Graduating Senior Student Data

<table>
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<tr>
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<th>2016</th>
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<tbody>
<tr>
<td>Number of Graduates</td>
<td>128</td>
</tr>
<tr>
<td>Accepted into Graduate or Professional School</td>
<td>33</td>
</tr>
<tr>
<td>Expressed intent to attend Graduate or Professional School</td>
<td>45</td>
</tr>
<tr>
<td>Number of Graduates employed in CSTEP Fields</td>
<td>29</td>
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## CSTEP Workshops in 2015-16

<table>
<thead>
<tr>
<th>Semester</th>
<th>Number of Workshops</th>
<th>Total Hours of Workshops</th>
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<tbody>
<tr>
<td>Fall</td>
<td>10</td>
<td>24</td>
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<tr>
<td>Spring (July 2015 + June 2016)</td>
<td>35 (includes CHE workshops)</td>
<td>128 (includes CHE workshops)</td>
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<tr>
<td></td>
<td>54</td>
<td>148</td>
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## 2015-2016 CSTEP Distribution of Students

<table>
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<tr>
<th>Ethnicity</th>
<th>%</th>
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<tbody>
<tr>
<td>African American</td>
<td>54%</td>
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<tr>
<td>Hispanic/Latino</td>
<td>19%</td>
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<tr>
<td>Native American/Alaskan Native</td>
<td>1%</td>
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## CSTEP FUNDING TRENDS 1989 - 2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding Amount</th>
<th># of Students Served</th>
<th># of Students Graduated</th>
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<tr>
<td>1987-1988</td>
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<td>1988-1989*</td>
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<tr>
<td>1989-1990</td>
<td>$135,511</td>
<td>138</td>
<td>27</td>
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<tr>
<td>1990-1991</td>
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<tr>
<td>2011-2012</td>
<td>$290,459</td>
<td>402</td>
<td>89</td>
</tr>
<tr>
<td>2011-2012</td>
<td>$30,513</td>
<td>***</td>
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<tr>
<td>2012-2013</td>
<td>$320,972</td>
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<tr>
<td>2015-2016</td>
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<td>2016-2017</td>
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<td>6,612</td>
<td>1,672</td>
</tr>
</tbody>
</table>

**TOTALS:** $5,918,409
PERFORMANCE MEASURES

UB CSTEP STATISTICS

Largest Majors Represented in UB CSTEP (with # of CSTEP students enrolled in each major)

- Biological Sciences, 58
- Biomedical Engineering, 18
- Biomedical Sciences, 26
- Chemistry, 10
- Civil Engineering, 21
- Computer Engineering, 11
- Electrical Engineering, 18
- Exercise Sciences, 13
- Mechanical Engineering, 17
- Nursing, 27
- Pharmacy, 30
- Pharmacology & Toxicology, 19
- Social Sciences Interdisciplinary, 17
- Biomedical Sciences, 58

Gender representation in UB CSTEP

- M, 177
- F, 237

Ethnic Breakdown of CSTEP Students, 2016-2017

- African-American/Black, 236
- Latino/Hispanic, 81
- Asian/Pacific Islander/Middle Eastern, 68
- White/Caucasian, 19
- Native American, 3

GPA Breakdown of CSTEP Students, 2016-2017

- 0.000-1.999
- 2.000-2.999
- 3.000-4.000

Research & Internship Opportunities

Paid research and internships are an integral part of CSTEP that introduces undergraduate students to the culture of research, provide insight related to their major and expose students to the rigors of graduate study. The CSTEP Research Internship Program exposes selected students to research and career opportunities in their major. CSTEP works with students to identify faculty research mentors or internship supervisors.

Academic Year Research/Internship Program

During the academic year, interns work for 12 weeks per semester under the guidance of a research mentor or internship supervisor. Students are assigned a research project for up to 10 hours per week, at the discretion of the research or internship supervisor. Students are awarded a research stipend from CSTEP during their research or internship experience.

Summer Research Program

The CSTEP Summer Research Program is an intense 8.5-week program designed to enhance the competitiveness of talented underrepresented students pursuing STEM and the allied health professions. The program strengthens participants’ research skills and exposes them to the rigors of graduate study. Students are matched with faculty to conduct research for 30 hours per week. In addition to gaining research experience, students participate in a research methods course, seminars, and field trips. As a capstone, at the end of the program, students present their research to their peers, faculty, and the University community during our Annual Research Symposium. The summer program takes place from the end of May through the middle of July. Applications are due in March of each year.
CSTEP offers a variety of community service activities including the following:

**Habitat for Humanity**
CSTEP students team up with Habitat for Humanity Buffalo, a non-profit charitable organization seeking to alleviate the shortage of affordable housing within the U.S. and abroad. Through volunteer labor and donations, Habitat for Humanity Buffalo has been able to build and rehabilitate over 225 homes for families who have difficulty obtaining a home through other means.

**CSTEP Shadow Day**
CSTEP students serve as mentors to high school students enrolled in the Science Technology Entry Program (STEP). STEP students shadow their CSTEP mentors by attending classes with them and gaining a glimpse of what college classes are like.

**The CSTEP Annual Day of Service**
CSTEP students visit local high schools in the Buffalo Public School System. CSTEP students participate in panels where they share their collegiate experiences with the high school students. This serves as a vehicle to give students from targeted high schools “college knowledge” while also introducing them to STEM fields and the licensed professions.

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**2017 CSTEP Day of Service at International Prep Academy**

On Wednesday, March 8th, 2017, CSTEP hosted its annual “Day of Service” at International Prep Academy (I-Prep) in the City of Buffalo. The Day of Service (DOS) is an empowering day for both the volunteers and the high school students. Many high school students are unsure about the process of applying to college or what professions are available for them to pursue. For this reason, CSTEP created our DOS, an event where CSTEP students, faculty and alumni visit high school students and address student’s questions about college life, academics and career choices.

At this year’s DOS, more than 30 CSTEP students, alumni, and graduate students volunteered and were teamed into groups of 4-5 students. Each panel spoke to three class sessions from 9:30am to 1:30pm, totaling about 21 information sessions that day.

During the panels, the volunteers discussed preparation for college, advice on the transition from high school to college, and the significance of pursuing a career in the STEM fields or licensed professions. All of the volunteers were impressed by the engagement and questions posed by the high school students throughout our stay.

The CSTEP DOS is an opportunity for volunteers to give back to the Buffalo community, ensuring that our youth is presented with important information about college life, the rigors of college level academics and possible career choices.
Community Health Educator (CHE) - Service Learning Project

This 2017 spring semester, 27 students participated in our 3-credit hour Campus Health Educator (CHE) Service Learning course. In partnership with Unyts, CSTEP students engaged in service learning by completing meaningful community service with instruction and reflection to enrich their learning experience, teach civic responsibility, and strengthen communities. Service learning enhances students’ ownership of their educational experience while simultaneously addressing a need in the community.

The mission of CHE is to create awareness, increase knowledge, and educate campus peers and the Buffalo community regarding the need for blood and organ donation. There are over 120,000 people waiting for an organ in the United States and approximately 22 people die daily waiting for an organ transplant. Currently, only 24% of New York residents aged 18 and over are enrolled in the NYS Donate Life Registry, compared to the national average of 51%. Each year, CHE students at UB educate their peers on campus regarding the importance of organ and blood donation with hopes of increasing the number of organ donor registrants and blood donors.

One week prior to the beginning of the spring semester, students attended a week-long orientation and training session to identify, understand, and apply key concepts related to organ donation including the demographic aspects of healthcare, the burden of disease and scarcity in organ donation amongst minority populations, and the impact of certain health conditions on individuals and communities leading to organ transplants.

In addition, students attended class on the first and last Fridays of each month during the semester where they received instruction and reflection to enrich their learning experience, teach civic responsibility, and strengthen communities.

As participants of CHE, CSTEP students actively help address a critical health issue and improve their perceptions toward organ donation. For example, during the past 5 years, our CHE cohorts have registered over 1,390 donors. Students conducted presentations to inform members of the UB community regarding the importance of organ donation and addressing some of the stereotypes, myths, and assumptions associated with it.

At a capstone event, at the end of the semester, CHE students collaborated with Unyts to facilitate blood and organ-donor registry drives at the Student Union. The drives were immensely successful as our students registered over 75 members to the organ donor registry last year. During the past 5 years, our CHE cohorts have registered over 1,390 donors.

As participants of CHE, CSTEP students actively help address a critical health issue and improve their perceptions toward social responsibility and community connectedness, while developing leadership and work-related skills as they apply what is learned to real world problems.

CSTEP students present faculty-mentored research at Sagamore Resort

This 2017 spring semester, 15 students, staff, and alumni from the University at Buffalo, CSTEP Program, participated in the 25th Annual CSTEP Statewide Conference entitled “Journeys Beyond Excellence,” held on April 7-9, 2017 at the Sagamore Resort on Lake George, NY. Approximately 700 CSTEP students and staff from 40 colleges and universities across New York State were present. This three-day conference exposed students to a variety of motivational, academic and career-related workshops, dynamic and engaging speakers, and a graduate and opportunities fair. In addition, the research poster competition served as the conference centerpiece.

The conference ended with an exciting and insightful keynote address by Dr. Rudy Crew, President of Medgar Evers College. Most recently, Crew served as the State of Oregon’s first Chief Education Officer. He has also served as professor in the Rossier School of Education at the University of Southern California, Chancellor of New York City Public Schools, and various administrative roles in Miami-Dade, Boston, Sacramento, several smaller California districts, and Tacoma, Wash.

Dr. Crew’s mission is to improve student achievement, especially for poor and minority students. Crew stressed the importance of young people never letting their identities trick them into thinking their futures could not be bright. He stated, “You have to think about the EQ side, not just the IQ side” of your life. On the theme of being leaders, Crew emphasized “Leadership stems from love. If not, then leadership stems from power. Be vulnerable and lead from [love].” His overarching theme for the 500 STEM students in attendance was to have a combination between science and empathy. Crew made an impact by stating, “Empathy has been lost as an art form to building democracy. It has been seen as a weakness... Put yourself on pause for a second.”

Dr. Crew showed students how they as STEM professionals can lead the charge for a stronger tomorrow.
WHAT CSTEP MEANS TO ME
STUDENT TESTIMONIALS

I will always remember being able to drop by the CSTEP office and just talk to the administrators and students about anything. Most times it was not school related. It let me know that the support I received wasn’t because it was their “job,” but because we were friends and were genuinely there to help and support each other.”

Jahmil Campbell , Class of 2007
Electrical Engineering

“Participating in the CSTEP conferences in the Spring were great opportunities to network and meet students from UB CSTEP as well as CSTEP chapters from around New York. Having the opportunity to present a poster that focused on an Industrial Engineering project at the conference was not only a great experience but was a way to prepare for the type of presentations I’ve done in the engineering world in grad school and professionally.”

Ronald Dukes, Class of 2000
Industrial Engineering

“Attending the CSTEP Conference in 2009 was a very enriching experience for me to learn of all the options available to me post-graduation and to see so many brilliant minorities presenting their research that they worked hard on. On the bus ride to the Sagamore Conference resort, I had made up a song for the pep rally that was highly anticipated.”

Veronica Golden, MSW, Class of 2011
Social Work

“Participating in the Brush-up Buffalo as summer research intern was tremendous opportunity. It was great to help out a family by painting their house. The best part was to see them happy and appreciative of our efforts.”

Steven Jean Julien, Class of 2009
Electrical Engineering

“I remember specifically, when I was in my 3rd year and I started studying for the MCAT. That was the first time I was introduced to CSTEP. There I was in the office, tears streaming down my face telling the staff I don’t think I would be able to make into medical school. They said that nothing is impossible and that I will get into medical school as long as I believe. They even gave me some examples of people they knew who had struggles but were able to get into medical school. I cannot say thank you enough, for that I am truly grateful.”

Dr. Olayemi Ola, Class of 2006
Biological Sciences & Psychology

Global Perspectives: Social Innovation and Entrepreneurial Leadership (SIEL)
School of Management Ghana Trip - January 2018

• 3-credit hour experiential study abroad
• Dates: Jan 4-16, 2018
• 12-15 Undergraduates
• 3 MBA LeaderCORE *
• 1-2 MD/MBA
• 1 or 2 MPH/UP

Graduate Mentors
* Already identified

Limited space available for SOM Undergraduates: Contact Dorothy Saw-Aramoah, PhD
dasamoah@buffalo.edu

• 4 Interactive Modules
• Mandatory Research Project (Deal Expo)
• 2-3 Pre-trip workshops (fall semester)
• 1-2 Post-trip workshops (spring semester)
• Interview Required
• Final Decision Deadline: 9/1/17
• Cost: (including air-tickets, 3 credit UB tuition & travel insurance, boarding & lodging, etc)

$500 scholarships are available from CSTEP via the CPMC Experiential Scholarship Award. This year’s winner was Jillian Naylor ’17.

YOU SHOULD CONSIDER
STUDY ABROAD WITH THE SCHOOL OF MANAGEMENT!
THANK YOU CSTEP AMBASSADORS!

CSTEP would like to thank all of our Ambassadors who exemplified the CSTEP motto of "To whom much is given, much is expected."

A special thank you to the following students for their volunteerism in CSTEP community service events:

**STEP/CSTEP Shadow Day**
- Ali Al Qaraghuli
- Christina Aponte
- Barthziga Banuna
- Kraft Biney
- Kwaku Bonsu
- Andy Canizaves
- Fatou Cisse
- Chris Gnam
- Jon Goodrum
- Jarcquekia Jefferson
- Jalisia Kelly
- Neneya Mato-Kole

**CSTEP Community Health Educator**
- Naza Abdelrahman
- Gregory Adams, Jr.
- Nnamdi Amalu
- Kraft Biney
- Kwaku Bonsu
- Cheyenne Henry
- Thomas Hu
- Mellesia Jeetoo
- Mohammed Karim*
- Aishat Keahri
- Brianna Kinley
- Tiffany Mai
- Desiree Mogekford*
- Karleyne Mendez

**CSTEP Day of Service**
- Evette Addai
- Ali Al Qaraghuli
- Tiffani Barlow
- Leatrice Bennett
- Abdul-Malik Davies
- Mashe Douglas
- Maryam Edin
- Miriam Green
- Mohammed Karim
- Neneya Mato-Kole
- Ariel Ordonez
- Wassam Robert
- Angeline Romulus
- Adline Sarpong
- Ashley Solomon
- Clarence Utaha
- Binhua Wang

**CSTEP Habitat for Humanity**
- Ryan Kaminisky
- Saymoe Ma
- Lee-Mary Njoku
- Grace Oji
- Ndidiomaka Okorozo
- Jhamilla St. Claire
- Sennam Tavarez

**CSTEP 2016 - 2017 CSTEP Advisory Board Mission Statement**

The CSTEP Advisory Board (CSTEP AB), the alumni affiliate of the University at Buffalo Collegiate Science and Technology Entry Program, seeks to further develop and enhance the CSTEP program by creating a continued sense of community and a culture of giving among alumni that directly benefits CSTEP students, alumni and the entire UB community.

**CSTEP Executive Board Members**
- President: Mary Akzamsh-Boateng, MS
- Vice President: Dr. Kevin Burke
- Membership Chair: Jasmine Spencer
- Finance Chair: Iyesha Cook, BSIE
- Secretary: Yolayna Scott borough
- Historians: Dr. John Staley, Christine Wingo, MSIE (President Emeritus)

**Meetings**

All meetings are held on the last Wednesday of the month at 12:00 pm.

**Join Our Committees:**
- Social Out-Reach & Events: Chair, Olivia West
- Scholarships & Sponsorship: Chair, Morris Green
- Marketing: Co-Chairs, Ronald Dukes and Gerald Richardson
- Social Media: Chair, Vernetta Marquis
- Shadowing/Mentoring: Chair, Dr. Folarin Erogbogbo

**CSTEP Advisory Board Mission Statement**

The CSTEP Advisory Board (CSTEP AB) promotes the interests of CSTEP as a program committed to promoting learning and development through research, scholarship, and service among talented underrepresented students pursuing STEM and the licensed professions. CSTEP AB works to create an environment, in which UB CSTEP graduates and current students become and stay connected to the UB CSTEP Program.

CSTEP AB serves in an advisory capacity and has no fiduciary responsibility to CSTEP. The Advisory Board serves as the umbrella organization for CSTEP alumni to strengthen and grow the UB CSTEP community by meeting the following goals:

- Acting as ambassadors for CSTEP by assisting with mentoring, developing and positively influencing the next generation of STEM and licensed professionals.
- Creating a culture of giving among alumni that directly benefits CSTEP students and alumni by supporting CSTEP financially and by encouraging others to do so.
- Working with the CSTEP Program to facilitate ongoing access to knowledge, development and opportunities.
- Connecting current students and alumni in meaningful ways that create lifelong engagement, a continued sense of community and commitment to the CSTEP Program.

Anyone interested in being a member of the CSTEP AB should contact Shanna Crump-Owens at sicrump@buffalo.edu.
CSTEP expresses thanks and appreciation to the following workshop & tour facilitators for their contributions & support:

**DEAN, SCHOOL OF ARTS, SCIENCES, AND EDUCATION, D’YOUVILLE COLLEGE**

**CO-DIRECTOR, UNDERGRADUATE EDUCATION, ELECTRICAL ENGINEERING**

**DIRECTOR OF FELLOWSHIPS & SCHOLARSHIPS, THE GRADUATE SCHOOL**

**DEPUTY DIRECTOR, ENERGY SYSTEMS INTEGRATION LABORATORY (ESI)**

**ASSISTANT DEAN, DIVISION OF EDUCATIONAL AFFAIRS, ROSWELL PARK**

**ATA PRACTITIONER, SCHOOL OF ENGINEERING AND APPLIED SCIENCE**

**MAP LIBRARIAN, SCIENCE AND ENGINEERING INFORMATION CENTER**

**HAUPTMAN-WOODWARD INSTITUTE, STRUCTURAL BIOLOGY DEPT.**

**RESEARCH ASSOCIATE PROFESSOR, STONY BROOK UNIVERSITY**

**ASSISTANT DIRECTOR, INTERCULTURAL & DIVERSITY CENTER**

**ADMINISTRATIVE ASSISTANT, BEHLING SIMULATION CENTER**

**PRINCIPAL RESEARCH SCIENTIST, ASSOCIATE PROFESSOR, DISTINGUISHED TEACHING PROFESSOR, STONY BROOK UNIVERSITY**

**DIRECTOR, UB SOCIAL SCIENCES INTERDISCIPLINARY PROGRAM**

**CAREER CONNECTOR, UB CAREER SERVICES**

**CLINICAL PSYCHOLOGIST, AUTHOR**

**DIRECTOR, BLACKSTONE LAUNCHPAD**

**CLINICAL PSYCHOLOGIST, AUTHOR**

**GENERAL COUNSEL, NIAGARA UNIVERSITY**

**MARKETING CAPTAIN, OF THE SEA, LLC**

**DEPUTY DIRECTOR, ENERGY SYSTEMS INTEGRATION LABORATORY (ESI)**

**DIRECTOR, UB SOCIAL SCIENCES INTERDISCIPLINARY PROGRAM**

**CAREER CONNECTOR, UB CAREER SERVICES**

**CLINICAL PSYCHOLOGIST, AUTHOR**

**GENERAL COUNSEL, NIAGARA UNIVERSITY**

Words to Live By: "Failure will never overtake me if my determination to succeed is strong enough." - Unknown

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**CSTEP SUMMER 2016 RESEARCH INTERNSHIP SCHOLARS**

**Naza Abdelrahman**

**HOMETOWN:** Brooklyn, NY

**MAJOR:** Biomedical Sciences

**INTERNSHIP PLACEMENT:** Buffalo Clinical and Translational Research Center

**SUMMER MENTOR:** Dr. Alice Cecareanu

**SUMMER MENTOR TITLE:** Assistant Professor

**DEPARTMENT:** Pharmacy and Pharmaceutical Sciences

**SUMMER PROJECT:** Metformin Attenuates the Detrimental Effects of Insulin in Head and Neck Cancer

**ABSTRACT:** Long-term survival among patients with diabetes mellitus (DM) and head and neck cancers (HNC) remains low despite advances in surgery, radiation, and chemotherapy. The present research evaluates DM pharmacotherapy influence on HNC outcomes. Kaplan-Meier analysis with log-rank statistics assessed overall (OS) and disease-free survival (DFS), in months, among DM patients diagnosed with HNC at Roswell Park Cancer Institute (7/1/2003-12/31/2010). Metformin use improved mean OS (93.05 vs. 62.95, P=0.008) and DFS (87.08 vs. 54.55, P=0.020). Insulin use decreased mean OS (47.98 vs. 88.38, P<0.001) and DFS (33.53 vs. 83.99, P<0.001). Metformin’s addition to insulin increased mean OS and DFS by 15.17 (Raw P=0.034) and 22.43 (Raw P=0.020) months, respectively.

**ACADEMIC AND CAREER GOALS:** To obtain my MD degree and become a pediatrician.

**WORDS TO LIVE BY:** “Failure will never overtake me if my determination to succeed is strong enough.” - Unknown

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**Ali Al Qaraghuli**

**HOMETOWN:** Syracuse, NY

**MAJOR:** Electrical Engineering

**INTERNSHIP PLACEMENT:** UB Nanosatellite Laboratory

**SUMMER MENTOR:** Dr. John Crossidis

**SUMMER MENTOR TITLE:** CUBRC Professor

**DEPARTMENT:** Mechanical and Aerospace Engineering

**SUMMER PROJECT:** Integration of Triple Junction Solar Panels in Nanosatellite Power Systems

**ABSTRACT:** Throughout the electronic age, space vehicles have shaped our modern civilization and created a more connected world. Satellites are now designed to perform serious duties while hosting smaller structures. However, with smaller satellites, smaller solar cells need to be implemented, which can cause a dilemma in the case of recharging the vehicle’s battery. In order for a cell to maintain high efficiency at a small size, it must have multiple junctions. For the purposes of the UBNL Space Debris sister satellites, triple junction solar cells can provide reliable and renewable power to small satellites in order to guarantee data and command handling, in addition to recovering power lost to tumbling.

**ACADEMIC AND CAREER GOALS:** To obtain a Doctorate of Medicine Degree and specialize in Ophthalmology subspecializing in Oculofacial Plastic Surgery.

**WORDS TO LIVE BY:** “Scientists in the Renaissance and Islamic Golden age studied various fields and pioneered in all of them, made discoveries in all of them, and left their legacies through their inventions. Now, you have one college major and one field to master, if you ever doubt that you can do it, think of how someone with the same biology as you has accomplished much more.” - Unknown
Andrew Alegria  
HOMETOWN: Lynbrook, NY  
MAJOR: Mechanical and Aerospace Engineering  
INTERNSHIP PLACEMENT: Automation, Robotics and Mechatronics Lab  
SUMMER MENTOR: Dr. Venkat Krovi  
SUMMER MENTOR TITLE: Professor  
DEPARTMENT: Mechanical and Aerospace Engineering  
SUMMER PROJECT: An Analysis of Robotic Manipulators Using Visualization and Simulation Software, as well as Analytical Examination  
ABSTRACT: Robotic Manipulators consist of rigid links coupled together by articulations. Examples of such manipulators include open-chain mechanisms such as the one link, two link, three link or, closed-chain mechanisms such as the four-bar. We analyzed, simulated, and visualized how the links and end-effector moved under joint-mounted motors. Computer Aided Engineering software was used to create models for visualization and simulation of robotic systems. For our analytical analysis, we used mathematical and physics based methods initially, developing comparative models with CAE tools. However, the complexity of analytical methods increased very rapidly with an increasing numbers of links. Hence, the bulk of my work focused on the kinematics of more complex examples.  
ACADEMIC AND CAREER GOALS: My most immediate goal is to obtain my Bachelor of Science in Mechanical and Aerospace Engineering in 2 years and, in the future, start my own company.  
WORDS TO LIVE BY: “Impossible is just a big word thrown around by small men who find it easier to live in the world they’ve been given than to explore the power they have to change it. Impossible is not a fact. It’s an opinion. Impossible is not a declaration. It’s a dare. Impossible is potential. Impossible is temporary. Impossible is nothing.” - Muhammad Ali

Barituziga Banuna  
HOMETOWN: Buffalo, NY  
MAJOR: Chemical Engineering  
INTERNSHIP PLACEMENT: Dept. of Chemical and Biological Engineering  
SUMMER MENTOR: Dr. Marina Tsianou  
SUMMER MENTOR TITLE: Associate Professor  
DEPARTMENT: Chemical and Biological Engineering  
SUMMER PROJECT: Investigation of Calcium Oxalate crystal morphology using additives in silica hydrogel  
ABSTRACT: Calcium oxalate is the major constituent of debilitating renal stones. Calcium oxalate crystals exist in three different forms: monohydrate (COM), dihydrate (COD), and tri-hydrate (COT). COM crystals are most closely associated with the kidney stones. Additives with anionic functional groups have shown inhibitory effects on COM crystal formation. However, more research must be done to understand the underlying mechanism behind these interactions. Hydrogels serve as an analog to the biological environment in which renal stones form. Using silica hydrogel matrices, we investigated the efficacy and effects of additives; Trisodium Citrate and PSS (Polystyrene Sulfonate) in the inhibition of COM formation and crystal morphology.  
ACADEMIC AND CAREER GOALS: To obtain a Master’s degree in the field of chemical engineering and materials science. I would also like to establish a firm to promote the implementation of new technologies.  
WORDS TO LIVE BY: “If I have seen further it is by standing on the shoulders of giants.” - Sir Isaac Newton

Emmanuel Cott  
HOMETOWN: Buffalo, NY  
MAJOR: Computer Science  
INTERNSHIP PLACEMENT: Security Lab Davis Hall  
SUMMER MENTOR: Dr. Shambhu J. Upadhyaya  
SUMMER MENTOR TITLE: Professor, Associate Department Chair  
DEPARTMENT: Department of Computer Science and Engineering  
SUMMER PROJECT: Cyber Security of Social Networks (Twitter Analysis)  
ABSTRACT: The spreading of information through social networks is both influential and sometimes unpredictable. Understanding how information spreads is essential for user security. In our research we will investigate and simulate how information spreads through the Twitter Network. This will allow us to detect and analyze malicious content embedded in tweets, retweets and hashtags. Afterwards, we will develop and employ cyber security algorithms and measurements to prevent or mitigate the spread of malicious content.  
ACADEMIC AND CAREER GOALS: To further study the field of Computer Science and to start my own software development company.  
WORDS TO LIVE BY: “This world is but a canvas to our imagination.” - Henry David Thoreau

Abdul-Malik Davies  
HOMETOWN: Queens, NY  
MAJOR: Chemical Engineering  
INTERNSHIP PLACEMENT: Colloidal and Aerosol Nanomaterials Laboratory (CANlab)  
SUMMER MENTOR: Dr. Margarita Dubocovich  
SUMMER MENTOR TITLE: UB Distinguished Professor  
DEPARTMENT: Chemical and Biological Engineering  
SUMMER PROJECT: Synthesis of Yolk-Shell Structured Silicon-Germanium Anodes for Lithium-ion Batteries  
ABSTRACT: The move towards a more sustainable world requires more efficient energy storage systems. New materials are needed to improve the storage capacity of batteries. Silicon–germanium (SiGe) alloy nanoparticles can potentially be used to create anodes with much higher specific capacity than graphite, the most commonly used material in Lithium–ion (Li-ion) batteries. However, these materials suffer from degradation due to volume expansion and contraction during use. To address this challenge, we are preparing carbon-coated SiGe-based anodes with a nanostructure that can accommodate volume changes. Starting with SiGe nanoparticles obtained using a laser reactor, we expect to achieve a SiGe@void@SiC-poly-shell structure utilizing mostly solution-phase techniques.  
ACADEMIC AND CAREER GOALS: To work in the energy industry with a focus on sustainability-related projects.  
WORDS TO LIVE BY: “Be at war with your vices, at peace with your neighbors, and let every new year find you a better man.” - Benjamin Franklin
ABSTRACT: Water scarcity is a severe problem driving a demand for simple, energy-efficient water purification technologies. Polymeric membranes are increasingly being used to purify water, however membrane fouling results in reduction of separation efficiency and increase in maintenance and operation costs. In our research, polydopamine and 2-methacryloyloxyethyl phosphorylcholine are used for the surface modification of polyethylene membranes to study its decomposition effects on the physical properties of membranes. This research will help further our understanding of membrane purification facilities.

ACADEMIC AND CAREER GOALS: To obtain a Master of Science degree in Chemical Engineering and empower the Hispanic community to realize its fullest potential through STEM awareness, access, support and development.

WORDS TO LIVE BY: “Start by outdoing yourself, and then keep on keeping on.” - Alford Antoine John

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Tanahiry Escamilla

HOMETOWN: Queens, NY
MAJOR: Chemical Engineering
INTERNSHIP PLACEMENT: School of Engineering and Applied Sciences
SUMMER MENTOR: Dr. Haiqing Lin
SUMMER MENTOR TITLE: Director and Associate Professor; Research Assistant Professor
DEPARTMENT: Department of Chemical and Biological Engineering

SUMMER PROJECT: Surface Modification on Membrane for Wastewater Treatment

ABSTRACT: Water scarcity is a severe problem driving a demand for simple, energy-efficient water purification technologies. Polymeric membranes are increasingly being used to purify water, however membrane fouling results in reduction of separation efficiency and increase in maintenance and operation costs. In our research, polydopamine and 2-methacryloyloxyethyl phosphorylcholine are used for the surface modification of polyethylene membranes to study its decomposition effects on the physical properties of membranes. This research will help further our understanding of membrane modifications to offer a simple and effective platform to improve fouling resistance of membranes operating at large-scale water purification facilities.

ACADEMIC AND CAREER GOALS: To obtain a Master of Science degree in Chemical Engineering and empower the Hispanic community to realize its fullest potential through STEM awareness, access, support and development.

WORDS TO LIVE BY: “There is a certain terror that goes along with saying, “My life is up to me.” It is scary to realize there’s no magic, rather a lack in will.” - Vince Lombardi Jr.

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Alejandro Falca

HOMETOWN: Buffalo, NY
MAJOR: Medicinal Chemistry
INTERNSHIP PLACEMENT: Watson Research Group
SUMMER MENTOR: Dr. David Watson
SUMMER MENTOR TITLE: Professor
DEPARTMENT: Chemistry

SUMMER PROJECT: Excited-State Charge Transfer between Covalently-Tethered CdSe/CdTe Quantum Dots and Mesoporous TiO2

ABSTRACT: Quantum dots are valuable light harvesters for solar energy conversion and photocatalysis. Semiconductor quantum dots have been studied extensively for their size-dependent optical properties as well as for their role as excitonic and trap states, which may alter charge-transfer processes. One major challenge is to maintain the separation of photogenerated charges. We synthesized a CdSe/CdTe heterostructure on TiO2 films through ligand exchange in order to spatially separate electrons and holes upon excitation of light. We expect this configuration of quantum dots to minimize electron-hole recombination thus improving the odds that photogenerated electrons and holes can be used to do work.

ACADEMIC AND CAREER GOALS: My current goal is to make it into the Jacobs School of Medicine and Biomedical Sciences while long term I want to become an anesthesiologist.

WORDS TO LIVE BY: “There is a certain terror that goes along with saying, “My life is up to me.” It is scary to realize there’s no magic, you can’t just wait around, no one can really rescue you, and you have to do something.” - Meg Jay

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Chris Gnam

HOMETOWN: Rochester, NY
MAJOR: Mechanical and Aerospace Engineering
INTERNSHIP PLACEMENT: Sound and Vibrations Laboratory
SUMMER MENTOR: Dr. Mostafa Nouh
SUMMER MENTOR TITLE: Director and Associate Professor
DEPARTMENT: Mechanical and Aerospace Engineering

SUMMER PROJECT: Vibration Control with Periodic Structures

ABSTRACT: Spacecraft optical equipment often times needs to be held extremely still while taking long exposures, and so they must somehow be kept isolated from undesirable sources of vibration (such as from reaction wheels). Materials with good damping properties, such as rubber-like and viscoelastic polymers, are typically soft with a low mechanical stiffness and are thus not always suitable. Another approach is to use periodic structures (utilizing both periodic geometries and materials) which are known to exhibit a unique structural response stemming from their ability to generate stop bands. Within these stop bands, vibration excitations of certain frequencies are incapable of producing elastic waves that propagate through the structure and are, therefore, effectively damped. We are studying various theoretical periodic structures using the finite element method using ANSYS workbench to model their filtering characteristics. We have also created mathematical models using MATLAB to predict the wave dispersion patterns of these structures which have allowed us to identify geometries with potentially powerful vibrational suppression properties, which may allow for more precise data collection on spacecraft optical systems.

ACADEMIC AND CAREER GOALS: To one day work at SpaceX or NASA to assist in the development of a permanent martian infrastructure.

WORDS TO LIVE BY: “When something is important enough, you do it even if the odds are not in your favor.” - Elon Musk
"Fall down seven times, stand up eight."

WORDS TO LIVE BY:

Tobacco smoking remains the leading preventable cause of death in the United States with 480,000 annual deaths. Smoking causes three out of five smokers to die prematurely. Most individuals with serious mental illness such as Schizophrenia and Bipolar Disease are much more likely to be cigarette smokers than individuals without mental illness. Collected copies of published literature will be reviewed in detail to try to assess the magnitude of the treatment effects, using established measures of effect-size (e.g. NNT). Our research will help further understand the extent to which pharmacotherapy treatments will help the abstinence of smoking cessation in adults with mental illness.

ACADEMIC AND CAREER GOALS: To obtain a Master’s in Epidemiology, and to become an Epidemiologist. I also plan to work around the world, studying and preventing the diseases that are spread world wide, with regards to public health and public safety.

WORDS TO LIVE BY: “Fall down seven times, stand up eight.”

Mohammed Karim

HOMETOWN: Queens, New York
MAJOR: Pre-Med/Biomedical Sciences
INTERNSHIP PLACEMENT: Biomedical Research Building
SUMMER MENTOR: Dr. Stewart Clark
SUMMER MENTOR TITLE: Assistant Professor
DEPARTMENT: Pharmacology and Toxicology

SUMMER PROJECT: Characterization of a Preclinical Model of Progressive Supranuclear Palsy

ABSTRACT: Progressive Supranuclear Palsy is a neurodegenerative disease with characteristic tau protein aggregates. Currently, no animal model exists for treatment of this disease. However, we have created a rat model by infecting the cholinergic neurons of the pedunculopontine tegmentum with a virus containing a human tau gene. In this model, we believe overexpression of tau will produce deficits in motor performance. We assessed rats for their motor performance using horizontal and vertical ladders. We discovered that tau infused rats produced impairments in walking behavior. Therefore, we expect this model to be useful in finding a treatment for Progressive Supranuclear Palsy.

ACADEMIC AND CAREER GOALS: I strive to attend Medical School and obtain a Medical Doctor degree. After Medical School I intend to pursue a career in neurosurgery and potentially find a cure for Parkinson’s Disease.

WORDS TO LIVE BY: “When life knocks you down with an obstacle, you get back up. Failure is not an option.”

Jalisa Kelly

HOMETOWN: Niagara Falls, NY
MAJOR: Biomedical Sciences
INTERNSHIP PLACEMENT: Jacobs School of Medicine and Biomedicine
SUMMER MENTOR: Dr. Xiaozhong Wen, Ph.D.
SUMMER MENTOR TITLE: Assistant Professor
DEPARTMENT: Pediatrics

SUMMER PROJECT: Changes in Knowledge and the Intent of Breastfeeding among Pregnant Smokers after Smoking Cessation

ABSTRACT: Breastfeeding rates among pregnant women who smoke are significantly low compared to pregnant women who did not smoke. Our study employs data from the UB Pregnancy and Smoking Cessation study, which uses multiple component interventions to guide pregnant smokers on the journey to quit. Survey use before and after smoking cessation; showcases the change in knowledge and intent to breastfeed in a sample size of 32 women. It is expected that the intent to breastfeed will increase amongst our sample size once educated about breastfeeding, and smoking has ceased.

ACADEMIC AND CAREER GOALS: To attend medical school and obtain an M.D, graduate and go on to be a doctor in underserved areas. Later on I also plan on becoming a clinical instructor.

WORDS TO LIVE BY: “All things are possible! The key is to identify what you want, claim it for yourself, and believe that you are worthy to have it.” – Iyana Vanzant
Kaytlan LoCicero

**HOMETOWN:** Binghamton, New York
**MAJOR:** Social Science Interdisciplinary
**INTERNSHIP PLACEMENT:** School of Public Health
**SUMMER MENTOR:** Dr. Heather Oram, Ph.D.
**SUMMER MENTOR TITLE:** Assistant Professor
**DEPARTMENT:** Community Health and Behavior

**SUMMER PROJECT:** Identifying Physicians’ Influence on Prostate Cancer Patients’ Treatment Decision

**ABSTRACT:** Physician recommendations may be the most important influence on men’s prostate cancer treatment decisions. We conducted a qualitative data analysis of transcribed interviews with 25 prostate cancer patients who discussed their decision-making experience to examine any major themes that may reflect a strong influence in men’s treatment decision. This research will provide a better understanding of physicians’ influence on men’s treatment decision and how patient-physician relationships can reduce under and over treatment.

**ACADEMIC AND CAREER GOALS:** To obtain a Bachelor of Sciences in Community Mental Health and attend the University at Buffalo’s ABS Summer Nursing Program to obtain a Bachelor degree in nursing and become a registered nurse in my local community.

**WORDS TO LIVE BY:** “I consider that our present sufferings are not worth comparing with the glory that will be revealed in us.” – Romans 8:18

Anthony Lopez

**HOMETOWN:** Maybrook, NY
**MAJOR:** Biological Sciences
**INTERNSHIP PLACEMENT:** Institute of Photonics and Biophotonics
**SUMMER MENTOR:** Dr. Hillard Kutscher
**SUMMER MENTOR TITLE:** Research Assistant Professor
**DEPARTMENT:** Chemistry

**SUMMER PROJECT:** Formulation of Biodegradable Nanoparticles for the Treatment of Tuberculosis

**ABSTRACT:** Tuberculosis is considered a menacing epidemic that continues to plague 9.6 million lives globally. Treatment requires constant uptake of antibiotics over long periods of time. Nanoparticles remedy this offering systemic drug distribution and improve intracellular drug concentration. Rifampin loaded poly (lactic-co-glycolic acid) [PLGA] nanoparticles were synthesized via a water-oil-water emulsion technique. Lamentably nanoparticle taste cells are constantly being replaced. To compensate for any damage, taste cells are vulnerable to damage. To compensate for any damage, taste cells are constantly being replaced. However, the mechanisms that control this turnover process are not well understood. While there are many proteins found in the peripheral taste cells, it is unclear which contribute to taste cell maintenance. One potential protein that may be involved is the transcriptional regulator, Brain Acid Soluble Protein (BASP1). Experiments using Polymerase Chain Reaction (PCR) and immunohistochemical analyses are aid in better understanding the role of BASP1 in taste cell maintenance.

**ACADEMIC AND CAREER GOALS:** I hope to obtain a Medical Degree and specialize in Cardiothoracic surgery. Additionally I aspire to work on reform in medical care for Puerto Rico and the inner cities of the United States. Lastly, I wish to clinically study cardiovascular diseases in my latter age.

**WORDS TO LIVE BY:** “When life knocks you down, try to land on your back. Because if you can look up, you can get up.”

Jillian Naylor

**HOMETOWN:** Mandeville, Jamaica
**MAJOR:** Biological Sciences
**INTERNSHIP PLACEMENT:** Biological Sciences
**SUMMER MENTOR:** Dr. Kathryn Medler
**SUMMER MENTOR TITLE:** Assistant Professor
**DEPARTMENT:** Biological Sciences

**SUMMER PROJECT:** Investigating the role of BASP1 on taste cell maintenance

**ABSTRACT:** Taste receptor cells are specialized neuroepithelial cells that are housed in taste buds in the lingual epithelium of the oral cavity. Due to their exposure to the external environment, taste cells are vulnerable to damage. To compensate for any damage, taste cells are constantly being replaced. However, the mechanisms that control this turnover process are not well understood. While there are many proteins found in the peripheral taste cells, it is unclear which contribute to taste cell maintenance. One potential protein that may be involved is the transcriptional regulator, Brain Acid Soluble Protein (BASP1). Experiments using Polymerase Chain Reaction (PCR) and immunohistochemical analyses are aid in better understanding the role of BASP1 in taste cell maintenance.

**ACADEMIC AND CAREER GOALS:** To become an endodontist and to open a clinic in my hometown in Jamaica.

**WORDS TO LIVE BY:** “If God leads you to it, He will guide you through it.”

Aaron Nimako

**HOMETOWN:** Buffalo, NY
**MAJOR:** Biomedical Science
**INTERNSHIP PLACEMENT:** Roswell Park Cancer Institute
**SUMMER MENTOR:** Dr. Jerome Yates; Dr. Richard Cheney
**SUMMER MENTOR TITLE:** Research Mentor
**DEPARTMENT:** Pathology

**SUMMER PROJECT:** Analysis of Cholangiocarcinoma in Roswell Park Autopsy Database

**ABSTRACT:** From 1950–1987, over 23000 autopsies were done at RPCI. Cholangiocarcinoma is a relatively rare cancer and usually results in death for the patient. It arises in the bile ducts draining the liver or throughout the extra hepatic ducts. Using the autopsy files, demographic characteristics of patients with Cholangiocarcinoma were collected. Sex, age, survival, risk factors and other cancer diagnosis were collected. 20234 records were scanned and 11 cases of Cholangiocarcinoma were found. There were 3 males and 8 females ranging from ages 39 to 68. Their survival ranged from 3 weeks to 5 years. This remains a very difficult cancer to control and etiologic factors contributing to its genesis are largely obscure.

**ACADEMIC AND CAREER GOALS:** I want to obtain my MD, followed by being a physician.

**WORDS TO LIVE BY:** “If you believe in god, then one thing is for sure. If you don’t aim too high, then you’ve aimed too low.”
Huntington's disease (HD) is a neurodegenerative disease which causes loss of motor coordination and leads to premature death. Huntingtin (HTT), the protein which causes HD, is enriched in neurons and likely functions in axonal transport. Recently, our lab showed that HTT regulates the transport of the protein Rab2 in Drosophila axons and that HTT and Rab2 move together during axonal transport. We expect that reduction in HTT levels or expression of mutant HTT perturb ER localization in axons.

ABSTRACT: Huntington's disease (HD) is a neurodegenerative disease which causes loss of motor coordination and leads to premature death. Huntingtin (HTT), the protein which causes HD, is enriched in neurons and likely functions in axonal transport. Recently, our lab showed that HTT regulates the transport of the protein Rab2 in Drosophila axons and that HTT and Rab2 move together during axonal transport. We expect that reduction in HTT levels or expression of mutant HTT perturb ER localization in axons.

ACADEMIC AND CAREER GOALS: To obtain a Masters degree in Electrical Engineering and then work in a power industry.

WORDS TO LIVE BY: “Try not to become a person of success, but rather try to become a person of value.” - Albert Einstein
**Diamile Tavarez**

**HOMETOWN:** Ridgewood, NY  
**MAJOR:** Biological Sciences  
**INTERNSHIP PLACEMENT:** Biomedical Research Building  
**SUMMER MENTOR:** Dr. Zhen Yan  
**SUMMER MENTOR TITLE:** Professor  
**DEPARTMENT:** Physiology & Biophysics

**ABSTRACT:** Alcohol spectrum disorders (ASDs) are a group of developmental disabilities that cause difficulties in social interactions and other behaviors. Previously, Shank3 haploinsufficiency was identified as an autism risk factor that disturbs neuronal communication. Epigenetic studies have found the genes disrupted in autism to be histone modifying enzymes. In this present investigation, we intend to use Histone Deacetylases (HDACs) inhibitors to determine if it can serve as a potential form of treatment. We will use HDACs inhibitors to Shank3-deficient mice and conduct various behavioral assays to determine if mice still exhibit autism-like behaviors. This research will not only further our understanding of autism- but also provide a possible treatment for autism.

**ACADEMIC AND CAREER GOALS:** To obtain a Ph.D. in Biological Sciences with a focus on genetics, genomics, and bioinformatics. Once I complete my Ph.D., I plan to continue conducting research and become a mentor to undergraduate and graduate students.

**WORDS TO LIVE BY:** "If you don’t like something, change it. If you can’t change it, change your attitude. Don’t complain." - Dr. Maya Angelou

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**Douglas Tsahey**

**HOMETOWN:** Albany, NY  
**MAJOR:** Biomedical Science  
**INTERNSHIP PLACEMENT:** Translational Research  
**SUMMER MENTOR:** Dr. Richard Robin  
**SUMMER MENTOR TITLE:** Professor  
**DEPARTMENT:** Pharmacology and Toxicology

**ABSTRACT:** Microglial cells are immune cells of the brain, which are involved in protecting nervous system from foreign threats, damages and infections. Microglial cells do this via phagocytosis. Phagocytosis involves ingesting cellular debris, and other foreign substance which are considered harmful and neutralizing them. Studying the effects of alcohol on the phagocytic process is important because of the wide spread use across the population. Fluorescent beads will be used to measure the level of uptake in cells after exposure to alcohol. This will help better understand what effect increased alcohol consumption will have on the cells. Results obtained from this experiment can be applied to understanding how alcohol use affects early stages of neurodegenerative disorders such as Multiple Sclerosis.

**ACADEMIC AND CAREER GOALS:** To go to medical school and to become a doctor.  
**WORDS TO LIVE BY:** “Aspire to be great.”

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**Barituziga Banuna**

**HOMETOWN:** Coxsackie, NY  
**MAJOR:** Chemical Engineering  
**INTERNSHIP PLACEMENT:** Chemical and Biological Engineering  
**SUMMER MENTOR:** Dr. Marina Tisanou

**ABSTRACT:** Barituziga will be working in the “Molecular Engineering Laboratory” under my supervision. Specifically he will be conducting research in the area of Biometric Hybrid Materials. He will be responsible for sample preparation synthesis of materials using different experimental methods, analysis and characterization of the above materials with a number of characterization techniques and instruments, as well as analysis of data report writing and presentations.

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**Emmanuel Cott**

**HOMETOWN:** New York, NY  
**MAJOR:** Computer Science  
**INTERNSHIP PLACEMENT:** Computer Science and Engineering  
**SUMMER MENTOR:** Dr. Shambhu J. Upadhyaya

**ABSTRACT:** The intern will conduct independent study on the application of silicon and germanium nanoparticles for use as an anode material in lithium-ion batteries, participate in lab group activities, read research literature, and comply with safety requirements.

---

**Ali Al Qaraghuli**

**HOMETOWN:** Bethlehem, PA  
**MAJOR:** Electrical Engineering  
**INTERNSHIP PLACEMENT:** Mechanical and Aerospace Engineering  
**SUMMER MENTOR:** Dr. John Crassidis

**ABSTRACT:** Ali will help support NSF funded research in Uncertainty Quantification, build MATCAB based building Energy Consumption simulation models that will act on testbed for computational methods development by the group of faculty advisor.

---

**Marcus Ashford**

**HOMETOWN:** New Rochelle, NY  
**MAJOR:** Electrical Engineering  
**INTERNSHIP PLACEMENT:** Electrical Engineering  
**SUMMER MENTOR:** Dr. Jennifer Zirnheld

**ABSTRACT:** Marcus will be working on characterizing a non-thermal plasma used for medical applications and also assisting with other lab research projects as time permits.

---

**Andrew Alegria**

**HOMETOWN:** New York, NY  
**MAJOR:** Mechanical Engineering  
**INTERNSHIP PLACEMENT:** Mechanical and Aerospace Engineering  
**SUMMER MENTOR:** Dr. Rahul Rai

**ABSTRACT:** Andrew will help support NSF funded research in Uncertainty Quantification, build MATCAB based building Energy Consumption simulation models that will act on testbed for computational methods development by the group of faculty advisor.

---

**Ali Al Qaraghuli**

**HOMETOWN:** Bethlehem, PA  
**MAJOR:** Electrical Engineering  
**INTERNSHIP PLACEMENT:** Mechanical and Aerospace Engineering  
**SUMMER MENTOR:** Dr. John Crassidis

**ABSTRACT:** Ali will help support NSF funded research in Uncertainty Quantification, build MATCAB based building Energy Consumption simulation models that will act on testbed for computational methods development by the group of faculty advisor.

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**Naza Abdelrahman**

**HOMETOWN:** New York, NY  
**MAJOR:** Biomedical Sciences  
**INTERNSHIP PLACEMENT:** Pharmacy Practice  
**SUMMER MENTOR:** Dr. Alice Cea careanu

**ABSTRACT:** Naza will be working on understanding the evaluation of statin drugs benefit in solid tumors. Intern will organize, publication-ready all the data obtained under the H & N project, conduct literature search to develop a solid paper in introduction, finalize paper manuscript for submission.

---

**Marcus Ashford**

**HOMETOWN:** New Rochelle, NY  
**MAJOR:** Electrical Engineering  
**INTERNSHIP PLACEMENT:** Electrical Engineering  
**SUMMER MENTOR:** Dr. Jennifer Zirnheld

**ABSTRACT:** Marcus will be working on characterizing a non-thermal plasma used for medical applications and also assisting with other lab research projects as time permits.

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**Emmanuel Cott**

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**MAJOR:** Computer Science  
**INTERNSHIP PLACEMENT:** Computer Science and Engineering  
**SUMMER MENTOR:** Dr. Shambhu J. Upadhyaya

**ABSTRACT:** Emmanuel will conduct independent study on the application of silicon and germanium nanoparticles for use as an anode material in lithium-ion batteries, participate in lab group activities, read research literature, and comply with safety requirements.

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**Ali Al Qaraghuli**

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**INTERNSHIP PLACEMENT:** Mechanical and Aerospace Engineering  
**SUMMER MENTOR:** Dr. John Crassidis

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**Marcus Ashford**

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**MAJOR:** Computer Science  
**INTERNSHIP PLACEMENT:** Computer Science and Engineering  
**SUMMER MENTOR:** Dr. Shambhu J. Upadhyaya

**ABSTRACT:** Emmanuel will conduct independent study on the application of silicon and germanium nanoparticles for use as an anode material in lithium-ion batteries, participate in lab group activities, read research literature, and comply with safety requirements.
<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>MajorInternship Placement</th>
<th>Research Mentor Name</th>
<th>Description of Research Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mohamed</td>
<td>Diaby</td>
<td>Civil Engineering and Mathematics</td>
<td>Dr. Jongmin Shim</td>
<td>Mohamed will design a 2 D buckling specimen for stimulation using finite element analysis (AbaQus), and subsequently conduct testing.</td>
</tr>
<tr>
<td>Tanahiry</td>
<td>Escamilla</td>
<td>Chemical Engineering</td>
<td>Dr. Haiqing Lin</td>
<td>Tanahiry will focus on the surface modifications of polydopamine and PEG, a new polymer she will be synthesizing.</td>
</tr>
<tr>
<td>Alejandro</td>
<td>Falca</td>
<td>Medicinal Chemistry</td>
<td>Dr. David Watson</td>
<td>Alejandro will perform research involving the synthesis and characterization of nanoscaled organic inorganic materials designed to undergo light-induced electron transfer. The intern will study the excited state charge transfer between covalently CdSe/CdTe quantum dots and T:O2.</td>
</tr>
<tr>
<td>Jarrett</td>
<td>Franklin</td>
<td>Electrical Engineering</td>
<td>Dr. Jennifer Zirnheld, Dr. Kevin Burke</td>
<td></td>
</tr>
<tr>
<td>Chris</td>
<td>Gnam</td>
<td>Mechanical Engineering</td>
<td>Dr. John Crassidis</td>
<td>The intern will perform vibration analysis of periodic structures of metamaterials for vibration mitigation and acoustic and array applications. The intern will implement LinkSat Mission funded by NASA USIP and reasearch into Attitude Determination/Estimation Alorithms.</td>
</tr>
<tr>
<td>Andrea</td>
<td>Gonzalez</td>
<td>Architecture &amp; Graphic Design</td>
<td>School of Architecture, Center for Urban Studies</td>
<td>Dr. Henry Taylor</td>
</tr>
<tr>
<td>Dominique</td>
<td>Hickson</td>
<td>Computer Engineering</td>
<td>Dr. Karthik Danu</td>
<td>The project is to use wireless channel state information to calculate scope and bearing between two robots. Dominique will assist in performing wireless measurements, analysis, and visualization of this data.</td>
</tr>
<tr>
<td>Anna</td>
<td>Huang</td>
<td>Social Sciences Inter-disciplinary</td>
<td>Dr. Goniwicz</td>
<td>The intern will conduct research in the areas of toxicology, pharmacology, and public health in the context of the likely public health significance of the available treatments for smoking in individuals with mental illness.</td>
</tr>
<tr>
<td>Mohammed</td>
<td>Karim</td>
<td>Biomedical Sciences</td>
<td>Dr. Stewart Clark</td>
<td>The intern will perform the characterization of a preclinical model of progressive supranuclear palsy. The intern will score videos of rats performing behaviors, do health checks of aging rats, perform behavioral checks on rats, process data and prepare graph, perform immunohemometry on brain slices, quantify neurodegneration from pictures of processed brain slices.</td>
</tr>
<tr>
<td>Jalisa</td>
<td>Kelly</td>
<td>Biomedical Sciences</td>
<td>Dr. Xiaozhong Wen</td>
<td>Jalisa will work on our research project on Smoking Cessation in pregnancy and postpartum. She will help on patient recruitment, intervention counseling, data management and analysis. She will receive CITI ethic training and lab skills and patient visit training.</td>
</tr>
<tr>
<td>Kaytlan</td>
<td>LoCicero</td>
<td>Nursing/Social Sciences Interdisciplinary</td>
<td>Community Health and Health Behavior</td>
<td>Dr. Heather Orom</td>
</tr>
<tr>
<td>Jillian</td>
<td>Naylor</td>
<td>Biological Sciences</td>
<td>Dr. Natech Parmarshma</td>
<td>The intern will work on stem cell differentiation towards liver.</td>
</tr>
<tr>
<td>Aaron</td>
<td>Nimako</td>
<td>Biomedical Sciences</td>
<td>Roswell Park Cancer Institute</td>
<td>Dr. Jerome Yates</td>
</tr>
<tr>
<td>Lee-Mary</td>
<td>Njoku</td>
<td>Biomedical Sciences</td>
<td>Biological Sciences</td>
<td>Dr. Omer Gokcumen</td>
</tr>
<tr>
<td>Lee-Mary</td>
<td>Njoku</td>
<td>Biomedical Sciences</td>
<td>Pharmacology and Toxicology</td>
<td>Dr. Rajendram Rajnarayanan</td>
</tr>
</tbody>
</table>
CSTEP 2016 - 2017
ACADEMIC YEAR RESEARCH INTERNS

<table>
<thead>
<tr>
<th>First Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ndidiemaka Okorozo</td>
<td>Biomedical Sciences</td>
<td>Biological Sciences</td>
<td>Dr. Shermali Gunawardena</td>
<td>The intern will perform experiments with additional in vivo strategies and other experiments to supplement her summer research.</td>
<td></td>
</tr>
<tr>
<td>Oluwatosin Oniyide</td>
<td>Biomedical Sciences</td>
<td>Biological Sciences</td>
<td>Dr. Mary A. Bisson</td>
<td>The intern will participate in a team of students researching the development and recovery of machine oxygen species in response to many metal shess in the masrophylis algae clearer. He will set up a stress and analyze the reaching oxygen species with flumeter + flunisaw microscopy, analyze the data, and write the answers.</td>
<td></td>
</tr>
<tr>
<td>Ariel Ordonez</td>
<td>Pre-Med/Computer Sciences</td>
<td>Computer Science and Engineering</td>
<td>Dr. Bina Ramamurthy</td>
<td>The intern will create and work on a project using sensors on a phone to deliver a useful app.</td>
<td></td>
</tr>
<tr>
<td>Iyamu Osazuwa</td>
<td>Electrical Engineering</td>
<td>Electrical Engineering</td>
<td>Dr. Jennifer Zirnheld, Dr. Kevin Burke</td>
<td>The intern will participate in intervention (CBI-I) for insomnia in college students. Responsibilities include data entry, collection, and analysis; attending meetings, sending email intervention, recruitment, poster and conference preparation and travel, manuscript preparation.</td>
<td></td>
</tr>
<tr>
<td>Terrika Pereira</td>
<td>Nursing</td>
<td>School of Nursing</td>
<td>Dr. Yu-Ping Chang</td>
<td>The intern will use basic molecular biology techniques including DNA isolation, PCR for the analysis or gene expression and cloning. Projects are posed on delineating the factors that contribute to inter-individual variability in anti-cancer drug fecally.</td>
<td></td>
</tr>
<tr>
<td>Patrick Pierre</td>
<td>Pharmaceutical Sciences</td>
<td>School of Pharmacy and Pharmaceutical Sciences</td>
<td>Dr. Javier G. Blanco</td>
<td>The intern will perform additional in vivo strategies and other experiments to supplement her summer research.</td>
<td></td>
</tr>
</tbody>
</table>

2017 OUTSTANDING RESEARCH MENTOR AWARD RECIPIENTS

This award is designed to recognize and honor outstanding CSTEP research mentors who have been involved in mentoring, supervising and advising CSTEP undergraduate researchers, and have impacted CSTEP students’ academic and professional careers. This award also recognizes faculty members that support CSTEP’s mission to increase the success of underrepresented populations pursuing Science, Technology, Engineering and Mathematics (STEM), and the licensed professions.

Dr. Glenn C. Betts
Associate Professor
Dept. of Obstetrics and Gynecology

Dr. Alice C. Ciocearanu
Associate Professor
Pharmacy Practice

Dr. John L. Cranidis
Professor
Dept. of Mechanical and Aerospace Engineering

Dr. Karthik Dantu
Assistant Professor
Dept. of Computer Science and Engineering

Dr. Glenna C. Bett
Associate Professor
Dept. of Obstetrics and Gynecology

Dr. Alice C. Ciocearanu
Associate Professor
Pharmacy Practice

Dr. John L. Cranidis
Professor
Dept. of Mechanical and Aerospace Engineering

Dr. Karthik Dantu
Assistant Professor
Dept. of Computer Science and Engineering

Thank you to all of the staff and faculty who have partnered with CSTEP to empower our students and work for their success!
GEMS OUTSTANDING ALUMNI AWARD

2007 GEMS Cohort

Gregory Alexander, ’06
Systems Integrator
Blue Cross Blue Shield

Latosha Belcher, BS ’02, MS ’07
Engineer
US Dept. of Defense

Dane Burke, ’99
Physical Therapist
Northstar Pilates Solutions, LLC.

Dr. Kevin Burke, BS ’97, MS ’98, PhD ’07
Teaching Assistant Professor
UB

Darryl Collins, BS & BA ’03
Legal Assistant
Fox and Robertson, P.C.

Iyeneke Coker, ’01
Executive Director
Independent, Motivated, Educated & Compassionate Youth in Our Community Inc. (IMEC Inc.)

Neigel Crone, ’00
Staff Engineer
IBM

Dr. Folarin Erogbogbo, BS ’04, PhD ’09
Assistant Professor
Biomedical Engineering
San Jose State University

Tamiesha Johnson, BA ’00, MSW ’03
Site Facilitator
Catholic Charities

Dr. Witzard Seide (Joseph), BS ’05, MD ’09
Army Pediatrician
United States Army, Walter Reed National Military Medical Center

Ronnie Kay, MS ’05
Practice Enhancement Associate
UB Family Medicine Research Institute

Babian Liverpool, ’05
Business Analyst
Banach College, City University of New York (CUNY)

Yorinna Morgan, ’06
Information Technology Analyst
United States Government Accountability Office

LaVone Rodolph, BS ’03, MS ’05
PhD Candidate
University at Buffalo

Darryl Collins, BS ’06, MBA ’14
K-12 Coordinator, Office of Student Transition & Retention (STAR)
Herbert Wertheim College of Engineering, Univ. of Florida

Shola Olabisi, BS ’05, MS ’07
Research Assistant
Energy Systems Institute Research

Kareena Puije, BS ’01, MBA ’10, LLB ’15
Attorney
Jaworski Fleishman & Mugel, LLP

Babaszak Reul, BS ’10, MS ’14
Electrician
MTA Long Island Railroad

Laura Radolph, BS ’03, MS ’05
PhD Candidate
University of Buffalo

Latasha Beckman, BS ’00, MSIT ’01
Engineer
US Dept. of Defense

Dr. Kevin Burke, BS ’97, MS ’98, PhD ’07
Teaching Assistant Professor
UB

Neigel Creese, ’00
Staff Engineer
IBM

Dr. Folarin Erogbogbo, BS ’04, PhD ’09
Assistant Professor
Biomedical Engineering
San Jose State University

Morris Green, BS ’85, MEng ’94, MSIP ’04
Position
Company

Tamiesha Johnson, BA ’00, MSW ’03
Site Facilitator
Catholic Charities

Dr. Witzard Seide (Joseph), BS ’05, MD ’09
Army Pediatrician
United States Army, Walter Reed National Military Medical Center

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Electrician
MTA Long Island Railroad

Laura Radolph, BS ’03, MS ’05
PhD Candidate
University of Buffalo
Dr. Kabo Rogers, BA ‘00, PhD ’08
Director of Counseling
The Brearley School

Dr. Kelly Styles, BA ’04, MS ’06

Wayne Wilie, BS ’19, MS ’19
Senior Production Supervisor
Boston Scientific
Miami Tech Center

Christina Wingo, BA ’19, BS ’20, MS ’20
Instructor
Buffalo State College

Kenechukwu Nwiga, BA ’19, JD ’20

Kennisha Wiggins, BA ’11, JD ’05
Deceased

Dr. Kelly Sayles, BS ’04, MD ’08

Cynthia Collado, ’03
Patent Examiner
United States Patent and Trademark Office

Dr. Neka Simms, BS ’00, PharmD ’07
Research Assistant
University at Buffalo

Demissie Wolde Gabriel,
BS Chem Eng ’96, BS Aero Eng ’97, MS ’07

Olivia West, ’02
Executive Director
Champions of Change

Samuel Aboah, ’03
Technical Consultant
Hewlett Packard

Dr. Frank Ackehemgwe, ’19, PharmD ’17
Clinical Informatics Pharmacist
Carolina Medical Center

Kennisha Wiggins, BS ’11, JD ’05
Deceased

Mary Akumom-Boteng, MS ’11

NOT PICTURED:

NOT PICTURED:

NOT PICTURED:

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NOT PICTURED:

NOT PICTURED:

2012 GEMS Cohort
Congratulations to all of our Outstanding Alumni

Claudine Phaire, BS ’99
Customer Support Development Director
Lockheed Martin

Gerald Richardson, BS ’00, MBA ’08
Entrepreneur/Broker

Jerome Shitteh, BS ’08, NP ’12, CRNA ’16
Nurse Anesthetist Eastern Niagara Hospital – VA Hospital

Dr. Edmund Thomas, Jr., BA ’10, DDS ’14
Self-employed

Dr. Josiah Zubairu, BS ’08, MD ’14
Chief Resident Physician Dept. of Internal Medicine, University of Iowa Hospitals and Clinics

Moses Vaughan, MS ’08 & ’09
Software Engineer
Express Scripts

Lisa Millsaps-Muhammad-Graham, BA ’97, MPH ’02, EdM ’03, MS ’12
Coordinator for Readmission and Academic Policy Appeals CUNY Brooklyn College

Hashim Muhammad-Graham, BS ’00, MEng ’02
Senior Structural Engineer HDR

Rashied McDuffie, Assistant Corporation Counsel City of Buffalo

Ekwo Mundy-Adobo, BS ’15, MS ’16, MBA ’16
Senior Director of Public Affairs Evergreen Health

Lisa Willis-Muhammad-Graham, BA ’97, MPH ’02, EdM ’03, MS ’12
Coordinator for Readmission and Academic Policy Appeals CUNY Brooklyn College

Claudine Phaire, BS ’99
Customer Support Development Director Lockheed Martin

Antwan Upa, BS ’15, MS ’16
Electrical Engineer WSP Parsons Brinckerhoff

Hossein Vaughan, MS ’06 & ’07
Software Engineer Express Scripts

Rashied McDuffie, Assistant Corporation Counsel City of Buffalo

Claudio (Collazo), Okyro

Cox, Olivia

Dorleans, Cherrelle

Gifty, Edusei

Farah, Abdirahman

Griffin, Shanieca

Guinto (McGrath), Nicole

Inniss-Jackson, Shelly

Kelly, Tamaria

Lessington, Latasha

Congratulations to all of our Alumni

Abdul-Rashed, Shukree

Amin, Summar

Banister, Fatima

Boadu, Charles

Bokeye-Yiadom, Kwame

Brandon, Avonelle

Feliciano, Jonathan

Fenton, Tara-Jeneil

Frye-McClain, Jessica

Garcia, Christina

Gibson, Shawn

Griffin, Dominiqua

Johnson, James

Molina, David

Nsengiyumva, Emmanuel M.

Okorazuz, Peter

Romilly, Krystal

Salem, Erika

Saw, Souleymane

Yera, Theresa

Ekwo Mundy-Adobo, BS ’15, MS ’16, MBA ’16
Senior Director of Public Affairs Evergreen Health

Dr. Josiah Zubairu, BS ’08, MD ’14
Chief Resident Physician Dept. of Internal Medicine, University of Iowa Hospitals and Clinics
Walk down memory lane...

Remembering great times with alumni

This award is designed to acknowledge students who have shown dedication and support to the CSTEP program and gone above and beyond program expectations. All of these recipients have demonstrated a strong commitment to CSTEP’s mission.

Congratulations to all of our recipients!

Vanmany Phichith - Senior of the Year - 2000
Keba Roberts - Senior of the Year - 2001
Dreder Wimbly - Senior of the Year - 2001
Olivia Bradley - Senior of the Year - 2002
Keli Everett - Senior of the Year - 2002
Yolayna Scottborch - Senior of the Year - 2003
Felarin Eregbegbo - Senior of the Year - 2004
Jesi Urena - Senior of the Year - 2007
Mary Akuamah-Boateng - Senior of the Year - 2007
Sara Ferde - Senior of the Year - 2007
Moses Vaughan - Senior of the Year - 2007
Christine Kine - Student of the Year - 2008
Michael Williams - Student of the Year - 2008
Ngzi Agbasimwo - Student of the Year - 2008
Kofi Assenso-Mensah - Student of the Year - 2008
Reshona George - Student of the Year - 2009
David Louis - Student of the Year - 2009
Brianna Clark - Student of the Year - 2009
Frank Achiamping - Student of the Year - 2009
Iok Seong Wong - Student of the Year - 2009
Christopher D. Williams - Graduating Senior of the Year - 2010
Brianna Clark - Graduating Senior of the Year - 2010
Marda Hallu - Graduating Senior of the Year - 2010
Ron Heichman - Student of the Year - 2010
Jasmyne May - Student of the Year - 2011
Priscilla Adjei-Baffeur - Graduating Senior of the Year - 2011
Seifai Aljisha - Graduating Senior of the Year - 2011
Jonathan P. Rivera - Graduating Senior of the Year - 2011
Ian S. Duncan - Graduating Senior of the Year - 2011
Hector Cobo - Student of the Year - 2012
Shanney Lacey - Student of the Year - 2012
Chiamaka Agbasimwo - Student of the Year - 2012
Jasmyne May - Graduating Senior of the Year - 2012
Price Obot - Student of the Year - 2013
Theresa Yera - Student of the Year - 2013
Ronald Desmoullers - Senior of the Year - 2013
Yun Zheng - Graduating Senior of the Year - 2013
Christ-Ange Katchu - Student of the Year - 2014
Summar Amin - Student of the Year - 2014
Sharece Blake Graduating Senior of the Year - 2014
James Lopez - Graduating Senior of the Year - 2014
Alexandria Ngille - Graduating Senior of the Year - 2014
Kevin A. Carpio - Student of the Year - 2015
Akunne Kanu - Student of the Year - 2015
Michael Singletary - Graduating Senior of the Year - 2015
Barinakpah Basamu - Graduating Senior of the Year - 2015
Oluwatson Ajibode - Student of the Year - 2016
Shawn Ediison - Graduating Senior of the Year - 2016
Jacob Miling - Graduating Senior of the Year - 2016
Timothy Semson - Graduating Senior of the Year - 2016
Students of Excellence Scholarship Award recipients exemplify CSTEP’s motto of “To Whom Much Is Given, Much Is Expected” within their academics and community. This award is supported by alumni, staff, and supporters of the CSTEP program who believe in recognizing the outstanding accomplishments of our students.

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<thead>
<tr>
<th>YEAR</th>
<th>STUDENT</th>
<th>TYPE</th>
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<tbody>
<tr>
<td>2008</td>
<td>Folarin Erogboogo</td>
<td>Graduate</td>
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<tr>
<td>2008</td>
<td>Kofi Asenso-Men-</td>
<td>Undergraduate</td>
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<td>2009</td>
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<td>Graduate</td>
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<td>2009</td>
<td>Keba M. Rog-</td>
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<td>2010</td>
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<td>Graduate</td>
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<td>2010</td>
<td>Marda Hai-</td>
<td>Undergraduate</td>
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<td>2011</td>
<td>lu</td>
<td>Undergraduate</td>
</tr>
<tr>
<td>2012</td>
<td>Mary Akuamoah-Boateng</td>
<td>Undergraduate</td>
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<tr>
<td>2013</td>
<td>Jasmine May</td>
<td>Graduate</td>
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<td>2014</td>
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<td>2014</td>
<td>YunZheng</td>
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<tr>
<td>2015</td>
<td>Sharlene Green</td>
<td>Graduate</td>
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<td>2015</td>
<td>Barinaepekke Ba-nuna</td>
<td>Undergraduate</td>
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<tr>
<td>2016</td>
<td>Jonathan Goo</td>
<td>Graduate</td>
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<tr>
<td>2016</td>
<td>drum</td>
<td>Undergraduate</td>
</tr>
</tbody>
</table>

Gideon Adjorgenu
**BIOLOGICAL SCIENCES**
Affiliations: SSS.
Future Plans: Accepted to D’Youville College School of Pharmacy.
People I Would Like to Thank: Dr. Jennifer Morrison.
Personal Quote: “A tortoise does not embark on a journey if it does not hope to finish.”

Maha Alakkar
**BIOLOGICAL SCIENCES**
Affiliations: EOP, STEP.
Future Plans: Attending D’Youville College Graduate School for Master of Anatomy program.
People I Would Like to Thank: All staff and professors – all people who made UB great school.
Personal Quote: “Never give up with your dreams.”

Nicholas Alfonso
**ELECTRICAL ENGINEERING, MATHEMATICS (MINOR)**
Affiliations: EOP, LSAMP, SSS, SHPE, LASA, Chi Alpha Epsilon, Sigma Alpha Pi.
Future Plans: Electrical Engineer with WSP - Parsons Brinckerhoff in New York, NY.
People I Would Like to Thank: Dr. Kevin Burke, Professor, EE; Dr. Jennifer Zirnheld, Professor, EE; Ms. Kim Javor, Adjunct, Math; Mr. James Javor, Professor, Math; Dr. Liesl Folks, Dean, EE; Dr. Banao, T.A. Professor, M&E; Dr. Tracy Johnson; Ms. Janice Daniels; Ms. Marcellina Rondon; Dr. Jennifer Morrison; Dr. Drewal Sidney, Past Teaching Assistants & Tutors; and colleagues.
Personal Quote: “The supreme quality for leadership is unquestionably integrity. Without it, no real success is possible, no matter whether it is on a section gang, a football field, in an army, or in an office.” — Dwight D. Eisenhower

Brittni Anderson
**HEALTH AND HUMAN SERVICES (COMMUNITY MENTAL HEALTH CONCENTRATION)**
Future Plans: Apply for UB Law School and UB School Of Health and Health Professions.
People I Would Like to Thank: Mother, Mrs. Shanna Crump-Owens, and Bernadette Gargano.
Personal Quote: “Success is not final, failure is not fatal; it is the courage to continue that counts.” — Winston Churchill

Beatrice Bacolod
**CHEMICAL ENGINEERING**
Affiliations: Filipino-American Student Association (FASA), Women in Science and Engineering (WISE), SASE, LASA, ESW.
Future Plans: Seek employment and apply to MBA programs.
People I Would Like to Thank: I would to thank my friends, roommates, “aite,” “tadings,” my patient professors, and CSTEP and SSS for providing me with the resources that I need in order to be successful in college. Last but not the least, I would like to thank my mother for always supporting and believing in me. All of this if for you <3
Personal Quote: “It’s the repetition of affirmations that leads to belief. And once that belief becomes a deep conviction, things begin to happen.” — Muhammad Ali

Leatrice Bennett
**BIOLOGICAL SCIENCES**
Affiliations: CSTEP Summer Research Program 2014, Minority Association for Premedical Students (MAPS), Mcnair, STEP.
Future Plans: I will be attending the University of Albany School of Public Health.
People I Would Like to Thank: I would like to thank the faculty and staff at the CSTEP program, especially Nelson Rivas for his positive attitude and encouragement throughout the years; Dr. Susan Ott and Heather Hoganburch of McNair. Without them, I would not have considered graduate school as a future direction. Thank you Dr. Joseph Gardella for giving me the opportunity to give back to my community through education and leadership. Finally, I would like to thank Ms. Renee Mapp and Mrs. Simone Ragland from the UB Biomedical STEP Program and the UB STEP Program, respectively. I am proud to be an alumna of both programs and I will always be willing to give back.
Personal Quote: “All the adversity I’ve had in my life, all my troubles and obstacles, have strengthened me...You may not realize it when it happens, but a kick in the teeth may be the best thing in the world for you.” — Walt Disney
CSTEP 2017 GRADUATING SENIORS

Joaquin Canay
BIOTECHNOLOGY
Affiliations: SSS, CSTEP Summer Research Intern 2015.
Future Plans: Work for Thermo Fisher Scientific and apply for MBA programs.
People I Would Like to Thank: Leah Doherty which was a tough program, Jen Donato who was always there for me, and the CSTEP program which pushed me to reach further and gave me a place where I always go to in case I need support.
Personal Quote: “Rules are meant to be broken.”

Affiliations: EOP, Community Health Educator (CHE).

Jennifer Donato
BIOTECHNOLOGY
Affiliations: CSTEP Summer Research Intern 2015, Mock Trial, Alpha Epsilon National Honor Society, Ackers.
Future Plans: Work as a Scientist at Thermo Fisher Scientific in Grand Island, NY.
People I Would Like to Thank: Dr. Alice Ceccarelli, CSTEP office, Dr. Kate Rittenhouse-Olson.
Personal Quote: “Anyone who has never made a mistake has never tried anything new.” – Albert Einstein

Alejandro Falca
MEDICAL CHEMISTRY
Affiliations: CSTEP Summer Research Intern 2016, Ackers, Honors College.
Future Plans: Applying to medical school programs.
People I Would Like to Thank: My parents, my advisor Danielle, and my friends Eugene and Chamar for their support and guidance.
Personal Quote: “You miss 100% of the naps you don’t take.” – College Student Matter

Gabriel Gomez-Chaves
BIOIMEDICAL SCIENCES
Affiliations: UB Minority Assoc. of Pre-Medical Students.
Future Plans: Attending The UB Jacobs School of Medicine and Biomedical Sciences.
People I Would Like to Thank: Dr. Danielle Johnson.
Personal Quote: “An intellectual is someone whose mind watches itself.” – Albert Camus

Mohammed Diaby
CIVIL ENGINEERING, MATHEMATICS (MINOR)
Affiliations: ASCE, CSTEP Summer Research Intern 2015, McNair.
Future Plans: Accepted to the UB Structural Engineering Program.
People I Would Like to Thank: CSTEP faculty and staff, family members, and Dr. Shim.
Personal Quote: “Wish(God) is the Greatest”, and “Impossible is just a big word thrown around by small men who find it easier to live in the world they’ve been given than to explore the power they have to change it.” – Muhammad Ali

Fei Huang
HEALTH AND HUMAN SERVICES
Affiliations: EOP, JSA.
Future Plans: Work for Sheridan Medical Group: Family Primary Care Practice and apply to medical school programs.
People I Would Like to Thank: Lani Jendrowski, Senior EOP Counselor and Roslyn Joy-Colan, IDP Internship Coordinator.
Personal Quote: “Success is liking yourself, liking what you do, and liking how you do it.” – Maya Angelou

Jazmin Jones
COMPUTER ENGINEERING
Affiliations: NSCS, APAMS, Honors College.
Future Plans: Applying for medical school programs.
People I Would Like to Thank: My mentor Dr. Xiaozhong Wen, profressors, friends and family.
Personal Quote: “Let’s change the way we eat, let’s change the way we live, and let’s change the way we treat each other.” – Tupac

Dominique Hickson
COMPUTER ENGINEERING
Affiliations: SSS, NSBE, Brothers And Sisters in Christ (BASIC), UB Gospel Choir CSTEP Summer Research Intern 2016.
Future Plans: Accepted for graduate studies with the UB School of Computer Science and Engineering.
People I Would Like to Thank: CSTEP, SSS, The CSE Department, my family, my church family (The Sanctuary), friends, and BASIC.
Personal Quote: “Let’s change the way we eat, let’s change the way we live, and let’s change the way we treat each other.” – Tupac

Anna Huang
COMMUNITY MENTAL HEALTH
Affiliations: EOP, CSTEP Summer Research Intern 2016.
Future Plans: Applying for graduate school programs.
People I Would Like to Thank: Nelson Rivera, Mrs. Shanna Crump-Owens, Anais Biyo, Khadijat Olgaoke, and my mentor Dr. Liu.
Personal Quote: “Trust timing.”

Mohammed Karim
BIOMEDICAL SCIENCES
Affiliations: Community Health Educator (CHE), CSTEP Summer Research Intern 2016.
Future Plans: Work as an EMT during gap year and apply for medical school.
People I Would Like to Thank: Mrs. Shanna Crump-Owens, Miss Tina, Nelson and the Graduate Assistants from the CSTEP Office, and my research mentor Dr. Stewart Clark from Pharmacology & Toxicology Department.
Personal Quote: “We can complain because rose bushes have thorns, or rejoice because thorn bushes have roses.” – Abraham Lincoln

Jalisa Kelly
BIOMEDICAL SCIENCES
Affiliations: Community Health Educator (CHE), CSTEP Summer Research Intern 2016, Ackers, MAPS, LASA, Resident Advisor, Teaching Assistant, Research Assistant.
Future Plans: Accepted to the Jacobs School of Medicine and Biomedical Sciences for Fall 2017 to study medicine.
People I Would Like to Thank: GOD, my mother and father, Dr. Danielle Johnson, Dr. Todd Hennessey, Dr. Xiaozhong Wen, D-block (GOV), CSTEP (Mrs. Shanna Crump-Owens, Nelson, and Ms. Tia).
Personal Quote: “We were born to make manifest the glory of God that is within us. It’s not just in some of us; it’s in everyone. And as we let our own light shine, we unconsciously give other people permission to do the same. As we are liberated from our own fear, our presence automatically liberates others.” - Marianne Williamson

Oyinkansola Lapite
LEGAL STUDIES, COUNSELING (MINOR)
Affiliations: EOP, Pre-Low BLSA, ASA.
Future Plans: Accepted to Seton Hall Law School.
People I Would Like to Thank: Mr. Carlos Tedaja, Dr. Jennifer Morrison, Mrs. Bernadette, and Khadijat Olgaoke.
Personal Quote: “Follow your passion, it will lead you to your purpose.”

Gabrielle Johnson
CHEMISTRY
Affiliations: SSS, STEP.
Future Plans: Applying to graduate school programs.
People I Would Like to Thank: I personally would like to thank Willliam Moss for helping me stay on path with my academic goals.
Personal Quote: “Great moments are born great opportunity.” – Nikola Tesla

Ely Cuberos
BIOIMEDICAL SCIENCES
Affiliations: EOP, Community Health Educator (CHE).
Future Plans: Accepted to the UB Jacobs School of Medicine and Biomedical Sciences for the MS program in Neuroscience.
People I Would Like to Thank: My mother and my EOP advisor Denise Hare. They have always pushed me and seen in me my potential and capabilities.
Personal Quote: “Winners are not afraid of losing. But losers are. ”

Oleumide Oyinkansola
HEALTH AND HUMAN SERVICES
Affiliations: EOP, Community Health Educator (CHE).
Future Plans: Accepted to the Jacobs School of Medicine and Biomedical Sciences.
People I Would Like to Thank: Mrs. Shanna Crump-Owens.
Personal Quote: “Let us live in the world they’ve been given than to explore the power that is within us.” – Abraham Lincoln

Oyinkansola Lapite
LEGAL STUDIES, COUNSELING (MINOR)
Affiliations: EOP, Pre-Low BLSA, ASA.
Future Plans: Accepted to Seton Hall Law School.
People I Would Like to Thank: Mr. Carlos Tedaja, Dr. Jennifer Morrison, Mrs. Bernadette, and Khadijat Olgaoke.
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Nikolai Tesla
CHEMISTRY
Affiliations: SSS, STEP.
Future Plans: Applying to graduate school programs.
People I Would Like to Thank: I personally would like to thank Willliam Moss for helping me stay on path with my academic goals.
Personal Quote: “Great moments are born great opportunity.” – Nikola Tesla

Priscilla Esadah
BIOMEDICAL SCIENCES
Affiliations: NSCS, APAMS, Honors College.
Future Plans: Applying for medical school programs.
People I Would Like to Thank: My mentor Dr. Xiaozhong Wen, professors, friends and family.
Personal Quote: “Success is liking yourself, liking what you do, and liking how you do it.” – Maya Angelou

Dawda Jatta
ELECTRICAL ENGINEERING, MATHEMATICS (MINOR)
Affiliations: EOP, CSTEP Summer Research Intern 2016.
Future Plans: Accepted as a Design Engineer with Northrop Grumman in Baltimore, MD.
People I Would Like to Thank: Dr. Jornet, Dr. Burke, my family, Kelly Iyamu, and UB as an entity.
Personal Quote: “Success is something you attract by the person you become. Moreover, the person you become in pursuit of that success is much more valuable than what you get by succeeding.”

Jennifer Donato
BIOTECHNOLOGY
Affiliations: CSTEP Summer Research Intern 2015, Mock Trial, Alpha Epsilon National Honor Society, Ackers.
Future Plans: Work as a Scientist at Thermo Fisher Scientific in Grand Island, NY.
People I Would Like to Thank: Dr. Alice Ceccarelli, CSTEP office, Dr. Kate Rittenhouse-Olson.
Personal Quote: “Anyone who has never made a mistake has never tried anything new.” – Albert Einstein

Alycia M. Hare
HEALTH AND HUMAN SERVICES
Affiliations: EOP, Community Health Educator (CHE).
Future Plans: Accepted to the Jacobs School of Medicine and Biomedical Sciences.
People I Would Like to Thank: Mrs. Shanna Crump-Owens.
Personal Quote: “Let us live in the world they’ve been given than to explore the power that is within us.” – Abraham Lincoln

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Personal Quote: “Success is something you attract by the person you become. Moreover, the person you become in pursuit of that success is much more valuable than what you get by succeeding.”
Neneyo Mate-Kole
PHARMACOLOGY & TOXICOLOGY
Affiliations: Pre-Meds Without Borders, Pharmacology & Toxicology Club, Acker's, CSTEP, and the CSTEP Summer Research Intern 2017.
Future Plans: Work for Thermo Fisher Scientific and apply for MBA programs.
People I Would Like to Thank: My parents for always pushing me to be better than average. They put a lot of pressure on me, but they taught me not to be complacent, and give my 100% effort in anything I strive to do.
Personal Quote: “Stay far from timid, only make moves when your heart is in it, and live the phrase the sky’s the limit.” - Christopher Frank White Wallace (aka The Notorious B.I.G.)

Nicole Nguyen
HEALTH AND HUMAN SERVICES, COUNSELING (MINOR)
Affiliations: Residential Fitness, Campus Living, Buffalo Public Schools, Teaching Assistant.
Future Plans: Accepted to Columbia University Teachers College for graduate school.
People I Would Like to Thank: Michael Marrero, Mrs. Shanna Crump-Owens, Nelson Rivera, Dr. Amy Wilson, Dr. Brian Haggerty, Rob Hengesbach, Rebecca Jacob, Dr. Richard Almon.
Personal Quote: “Your largest fear carries your greatest growth.”

Aaron Nimako
BIOMEDICAL SCIENCES
Affiliations: Pi Kappa Phi, Community Health Educator (CHE), Medical STEP, CSTEP Summer Research Intern 2016.
Future Plans: Accepted to University at Buffalo Graduate School. People I Would Like to Thank: Dr. Jerome Yates, Ms. Shanna-Crump Owens, Nelson Rivera, Natalia Marte, and Shawn Gibson.
Personal Quote: “The significant problems we face cannot be solved at the same level of thinking we were at when we created them.”

Lenny Nivar
MECHANICAL ENGINEERING
Affiliations: SHPE, ISAMP, SSS.
Future Plans: Seek employment and apply to graduate school.
People I Would Like to Thank: People I Would Like to Thank: Personal Quote: “Sometimes might look or seem hard but they are not impossible.”

Ndidiamaka Okorozo
BIOMEDICAL SCIENCES
Affiliations: MAPS, Community Health Educator (CHE), CSTEP Summer Research Intern 2016, South Lake Village Council, UB Gospel Choir, Acker's.
Future Plans: Apply dental school programs.
People I Would Like to Thank: My mentors Dr. Natesh Parasharuma and Mr. Richard Hunt.
Personal Quote: “I can do all things through Christ who strengthens me.” – Philippians 4:13

Añuli Okoye-Oyibo
CHEMISTRY
Affiliations: UB Women's Rugby Club, EOP, STEP.
Future Plans: Applying to pharmacy school programs.
People I Would Like to Thank: CSTEP for being so helpful in my college experience. EOP (specifically Denise Hare) for seeing our potential and being there for us every step of the way. My calculus professor, Corey Placito, for being an amazing educator and my anthropology professor, Jaume Franquesa for getting to know as more than a student, but as a confident.
Personal Quote: “The only thing that can stop you from getting where you need to be is a lack of confidence in yourself.”

Iyamu Osazuwa
ELECTRICAL ENGINEERING
Future Plans: Accepted to University at Buffalo for graduate studies in Electrical Engineering.
People I Would Like to Thank: Dr. Jennifer Zirnheld, Dr. Kevin Burke, Ms. Shanna and Nelson.
Personal Quote: “No matter where you have been, no matter what you have done, it is never too late to pick you up. Your destiny surpasses your mistakes.”

Mami Efua Otu-Acuah
PHARMACEUTICAL SCIENCES
Affiliations: School of Pharmaceutical Sciences (VP), STEP.
Future Plans: Accepted to University at Buffalo School of Pharmacy and Pharmaceutical Sciences.
People I Would Like to Thank: Dr. Mager, Dr. Halverson, and Dr. Anderson.
Personal Quote: “Education is the passport to the future, for people I Would Like to Thank: Thank you. Personal Quote: “Who dares to teach must never cease to learn.” – John Cotton Dana

Valeria Prieto
CIVIL ENGINEERING
Affiliations: SHPE, ASCE, Acker’s, and CSTEP Summer Research Intern (2015).
Future Plans: Accepted to the University at Buffalo for graduate studies in Civil Engineering, with a concentration in Structural and Earthquake Engineering.
People I Would Like to Thank: My family and CSTEP Staff.
Personal Quote: “Criticism is something we can avoid easily by saying nothing, doing nothing, and being nothing.” – Aristotle

Garlenys Quezada Sanchez
BIOLOGICAL SCIENCES, PHARMACOLOGY & TOXICOLOGY (MINOR)
Affiliations: LASA, ISAMP.
Future Plans: Applying to pharmacy school.
People I Would Like to Thank: My mother.
Personal Quote: “Never say it is impossible, before trying.”

Adam Rander
BIOLOGICAL SCIENCES
Affiliations: Teaching Assistant, Community Health Educator (CHE), Resident Advisor, SSS.
Future Plans: Seek employment and apply to radiation therapy programs.
People I Would Like to Thank: Professor Derab and Nelson.
Personal Quote: “It’s easier to think your way into a new way of living than to live your way into a new way of thinking.”

Zakiya Rhodie
PHARMACOLOGY & TOXICOLOGY, CHEMISTRY (MINOR)
Affiliations: Community Health Educator (CHE), CSTEP Summer Research Intern (2015).
Future Plans: Accepted to UB School of Pharmacy.
People I Would Like to Thank: Dr. Richard A. Rabin, family, and the CSTEP staff! Thank you.
Personal Quote: “Who dares to teach must never cease to learn.” – John Cotton Dana

Alicia Rodriguez
NURSING
Affiliations: NSCS, EOP.
Future Plans: Seeking employment as a nurse.
People I Would Like to Thank: Lani Jendrowski (EOP Counselor).
Personal Quote: “Do something you love to do and you’ll never have to work a day in your life.”

Lucas Rugar
CIVIL ENGINEERING
Future Plans: Accepted to Columbia University Master of Management Science and Engineering program.
People I Would Like to Thank: Professor Pinar Okumus (Mentor).
Personal Quote: “If you are going through hell, keep going.” – Kathleen Hockaday, and Mrs. Shanna Crumps-Owens.
Khloe Barlow
NURSING


Future Plans: Accepted to the UB School of Nursing DNP program.

People I Would Like to Thank: Dr. Raines, Dr. Fabry, Dr. Chang, Teresa Sion.

Personal Quote: “My mission in life is not merely to survive, but to thrive; and to do so with so much passion, so much compassion, some how, and some style.” - Maya Angelou

SAYMOE
HEALTH AND HUMAN SERVICES

Affiliations: EOP.

Future Plans: Seek employment.

People I Would Like to Thank: I wanted to thank my EOP counselor, best friend and family who were supportive me to get through this journey and most importantly the Lord who blessed me daily.

Personal Quote: “Behind my every success journey, there is God, family and loves one. And, I’m blessed.

Andrew Santos
BIOLOGICAL SCIENCES

Affiliations: Community Health Educator (CHE), Residential Life, Pre-Meds Without Borders, EOP, STEP.

Future Plans: Applying to medical school programs.

People I Would Like to Thank: Mrs. Gudley, Ashley Goodwin, and my mother.

Personal Quote: “We got dreams, and we got the right to chase them.” - J. Cole.

Adrienne Schuler
BIOLOGICAL SCIENCES, PSYCHOLOGY


Future Plans: Applying to medical school programs.

People I Would Like to Thank: Professors and graduate students I have worked with.

Personal Quote: “Do not go where the path may lead, go instead where there is no path and leave a trail.” - Ralph Waldo Emerson

I’Yanna Scott
BIOLOGICAL SCIENCES

Affiliations: Community Health Educator (CHE), CSTEP Summer Research Intern (2015), Columbia University BEST Program.

Future Plans: Accepted to the UB School of Biological Sciences MA program.

People I Would Like to Thank: Ms. Crump-Owens, Dr. Wen, and Dr. Bisson.

Personal Quote: “I didn’t come this far to only come this far.”

Khali Starling
AFRICAN AMERICAN STUDIES

Affiliations: ASA.

Future Plans: Applying to law school programs.

People I Would Like to Thank: My parents, family, professors, and friends on this journey.

Personal Quote: “Your only limit is YOU.”

Nicolette Thomas
PSYCHOLOGY

Affiliations: CSA Dance Team.

Future Plans: Applying to medical school programs.

People I Would Like to Thank: Mrs. Gudley, Ashley Goodwin, and my mother.

Personal Quote: “We got dreams, and we got the right to chase them.” - J. Cole.

Deja Thompson
LEGAL STUDIES, SOCIETY (MINOR)

Affiliations: Mayor Summer Youth Program (Buffalo).

Future Plans: Accepted to UB Law School.

People I Would Like to Thank: Shawn Fagan of Buffalo City Court; Glen Murray, Professor of Into to Legal process; Rachel Hinkle Professor of Constitutional Law and Protecting Civil Liberties; Ramell L. Chazettes, Ph.D. of Access to College Excellence Program (ACE); Shanna Owens of CSTEP; Michael Marrero of CSTEP.

Personal Quote: “Stay humble.”

Coraima Veliz
PSYCHOLOGY, COUNSELING (MINOR)

Affiliations: Undergraduate Society of Feminists, The Smoking Research Lab, Dr. Katharina Azim’s Abortion Care Study, STEP.

Future Plans: Seeking employment and apply to graduate school.

People I Would Like to Thank: My family, my boyfriend, roommates, members of my club, and friends. Y tambien mi mama.

Personal Quote: “I’m no longer accepting the things I cannot change...I’m changing the things I cannot accept.” - Angela Davis

Solomon West
MECHANICAL ENGINEERING

Affiliations: LSAMP, AIAA, SAE, NSBE.

Future Plans: Complete internship with Pratt and Whitney and seek further employment.

People I Would Like to Thank: My family, my boyfriend, roommates, members of my club, and friends. Y tambien mi mama.

Personal Quote: “The world breaks everyone, afterwards some are strong at the broken places.”

Kortnie Williams
HEALTH AND HUMAN SERVICES, COUNSELING (MINOR), PUBLIC HEALTH (MINOR)

Affiliations: UB Gospel Choir, Crossfysh Dance Team, UB Women’s Rugby Team, STEP.

Future Plans: Applying to graduate school for Social Work.

People I Would Like to Thank: I just want to thank all of my support systems that includes all faculty that I have ever had the opportunity of conversing with, students who I pulled so many all-nighters with, friends for all the laugh in the midst of tragedy, and all of the energy that I receive from the general student body of optimism, ambition, and daily success.

Personal Quote: “Always remember that diamonds are formed deep under earth throughout tons and tons of pressure. Don’t quit; you will shine sooner than you know.” - personal motto

Oluwatosi Oniyide
BIOMEDICAL SCIENCES

Affiliations: Community Health Educator (CHE), CSTEP Summer Research Intern (2015), Honors College.

Future Plans: Applying to medical schools and working as a Research Scientist I with AMRI in Buffalo, NY.

People I Would Like to Thank: Dr. Mary Bisson.

Personal Quote: “The Mitochondria is the powerhouse of the cell.”

Long Bian
ELECTRICAL ENGINEERING, MATHEMATICS (MINOR)

Affiliations: SSS.

Future Plans: Accepted to the graduate program at UB for Electrical Engineering.

People I Would Like to Thank: Shanna Crump-Owens.

Personal Quote: “The world breaks everyone, afterwards some are strong at the broken places.”

Ameen Salem
COMPUTER SCIENCES, MATHEMATICS

Affiliations: WNY Prosperity Fellowship Program.

Future Plans: Accepted to the graduate program at UB for Electrical Engineering.

People I Would Like to Thank: My grandmother and family.

Personal Quote: “Dreams without Action will remain Dreams.”

Micah Green
POLITICAL SCIENCE

Affiliations: Future Plans: Applying to law school programs.

People I Would Like to Thank: My grandmother and family.

Personal Quote: “Dreams without Action will remain Dreams.”

Kailey Zhu
PSYCHOLOGY, HEALTH AND WELLNESS (MINOR), PUBLIC HEALTH (MINOR)

Affiliations: EOP.

Future Plans: Seek employment and apply for graduate school programs in Public Health.

People I Would Like to Thank: All of my mentors and supervisors.

Personal Quote: “The light is bright at the end of the tunnel.”

Abdul-Malik Davies
CHEMICAL ENGINEERING


Future Plans: Seek employment.

People I Would Like to Thank: The entire UB community.

Personal Quote: “The Mitochondria is the powerhouse of the cell.”

2017 GRADUATING SENIORS

2018 GRADUATING SENIORS

2019 GRADUATING SENIORS

2020 GRADUATING SENIORS

CSTEP 2017 GRADUATING SENIORS

CSTEP 2017 GRADUATING SENIORS
Adres Nuri
MECHANICAL ENGINEERING
Affiliations: Afghan SA, EOP.
Future Plans: Seek employment.
People I Would Like to Thank: Manuel Wong for outstanding support and answers to everything.
Personal Quote: “Fake it until you become it.”

Lauren Watts
HEALTH & HUMAN SERVICES
Affiliations: EOP, SSS.
Future Plans: Accepted to nursing program at Niagara University.
People I Would Like to Thank: Dr. Jennifer Morrison and my parents.
Personal Quote: “The future belongs to those who believe in the beauty of their dreams.” - Eleanor Roosevelt

Phillip Ojo
MECHANICAL ENGINEERING
Affiliations: ASA, Omega Psi Phi.
Future Plans: Seeking employment in automotive engineering.
People I Would Like to Thank: Personal Quote: “Figure it out!”

Brian Lounsbury
ENVIRONMENTAL GEOSCIENCES, GEOGRAPHY (MINOR)
Affiliations: Club Soccer.
Future Plans: Accepted position as a Land Surveyor with Gayron de Bruin in Babylon, NY.
People I Would Like to Thank: Sean Bennett.
Personal Quote: “If I have seen further it is by standing on the shoulders of giants.” - Sir Isaac Newton

Karen Feng
COMMUNICATIVE SCIENCES AND DISORDERS, EDUCATION (MINOR)
Affiliations: UB Speech and Hearing Clinic, Northwell Hospital (volunteer), PS 64 (internship), Hearing and Speech WNY (internship), SASH.
Future Plans: Accepted to graduate school at UB.
People I Would Like to Thank: My parents, friends, and all my undergraduate course teachers.
Personal Quote: “When deeds speak, words are nothing.” - Pierre-Joseph Proudhon

Wannah Robert
PSYCHOLOGY
Affiliations: Community Health Educator (CHE), Activities Coordinator, Minority Association of Pre-Med Students (MAPS), University Psychology Association.
Future Plans: Seek employment and apply to medical school.
People I Would Like to Thank: I’d like to thank my mom, dad, brother, and anyone who has ever supported me, given me sound advice or offered a good laugh in a particularly stressful situation.
Personal Quote: “Take pride in how far you have come and have faith in how far you will go.”

Naza Abdelrahman
BIOMEDICAL SCIENCES
Future Plans: Accepted to the MA Biology program at UB.
People I Would Like to Thank: I would thank my mom, my dad, and my bestfriend for always supporting me and always having faith in me even when I didn’t have faith in myself.
Personal Quote: “Your past has ended last night. Your future is today and tomorrow, with the unlimited Grace of God.”

Fedora Jeanty-Fils
BIOMEDICAL SCIENCES
Affiliations: Community Health Educator (CHE), Resident Advisor.
Future Plans: Applied to graduate school programs.
People I Would Like to Thank: Dr. Wen Xiaozhong.
Personal Quote: “Recognizing that you are not where you want to be is a starting point to begin changing your life.” - Deborah Day

Marie Lamothe
BIOLOGICAL SCIENCES
Affiliations: NSBE, Impulse Dance Force.
Future Plans: Applying to graduate school programs.
People I Would Like to Thank: My mother and both of my brothers for all their support.
Personal Quote: “Where there is a will, there is a way.”

Natalie Esadah
CHEMISTRY
Affiliations: NSBE, Impulse Dance Force.
Future Plans: Applying to pharmacy school programs.
People I Would Like to Thank: Dr. Wen, Dr. Verlarde and CSTEP.
Personal Quote: “Never give up and keep trying. Life is all about trials and errors, which allows us to be a better tomorrow.”

Jeidi Garcia
PHARMACOLOGY AND TOXICOLOGY
Affiliations: LASA, EOP, Pre-Pharmacy Club, Black Explosion.
Future Plans: Accepted to Virginia Commonwealth University Pharmacy School.
People I Would Like to Thank: Myself, my parents, Durham Alyasari, Linda Zilgme, Laurie A. Derby, Thomas Gezella, and my EOP and CSTEP families.
Personal Quote: “You will only ever live the life you create for yourself.”

Theresa Rubi
BIOLOGICAL SCIENCES
Affiliations: FASA, SASE.
Future Plans: Seek employment and apply to medical school.
People I Would Like to Thank: "You do what you want when you poppin’.” - Future

Leon Leger
CIVIL ENGINEERING
Affiliations: PODER Latinos Unidos, EOP.
Future Plans: Seek employment and apply to graduate school.
People I Would Like to Thank: Mentors and advisors.
Personal Quote: “Two roads diverged in a wood, and I—I took the one less traveled by, and that has made all the difference.” - Robert Frost

Falliou Djigal
ENVIRONMENTAL ENGINEERING
Affiliations: AWMA, EOP, LSAMP, SSS.
Future Plans: Offered position as Civil Engineering Officer with the Navy Civil Engineering Corps.
People I Would Like to Thank: Manuel Wong, Linda Zilgme, Gudiya, and Jennifer from SSS.
Personal Quote: “It’s kind of fun to do the impossible.” - Walt Disney
CSTEP 2017 GRADUATING SENIORS

SAL

ALUMNI UPDATES

FIRST NAME LAST NAME TITLE ORGANIZATION/AFFILIATION DEGREE YEAR OF GRADUATION

M. Edwards Nicole Nurse Union College BA 2017
M. Shivaraj Naveen Residency Director Union College MD 2017
M. Samuel Noah Technical Consultant Hewlett-Packard BS 2008
M. Cren Moxie Physical Therapist MD 2008
M. Nia Naveen Nursing Student 3rd Year College GA 2013
M. Celeste Amovee Social Worker Private Agency GA 2007
M. Frank Kuo-Ming Pharmacy Intern Whorton Rehabilitation Hospital BS 2007
M. Ernst Anesa Human Resources Administrator William & Mary 2007
M. Bank Adam Graduating Student University of Buffalo, School of Public Health and Health Professions GA 2011
M. Zemella Adams Dr. Nunnally United States Army (Veteran) GA 2003
M. Shaka Adams Graduate Occupational Therapist North Shore University Hospital System BS 1991
M. Blessing Alexandria Parent Counseling Manager Monroe County Department of Social Services GA 2008
M. Mara Adams Pharmacy Student Lake Erie College of Osteopathic Medicine BS 2008
M. Renato Andre National Licensee Vertical Media BS 2008
M. Sherry Algong Physical Therapist Village Nursing Services BS 2000
M. Princia Rene Ballouk Laboratory Assistant Newark Pediatric Center BS 2001
M. rainy Kalman Nursing Student 3rd Year College GA 2007
M. Savannah Hogan Kyrgyzstan ER Nurse University at Buffalo School of Pharmacy GA 2001
M. Franklin Amy Appliance Health Sciences CBA 2001
M. Margaret Appliance Bank of America GA 2003
M. Sefritski Alphonse Graduating Student University of Buffalo GA 2012
M. Barrow Nast Beytulaim Research Assistant 3rd Year College of Pharmacy and Clinical Science PharmD 2008
M. Mary Kate Barber Research Assistant University at Buffalo CSSD 2007
M. Gregory Kassianer Dosimetry Administrator Bay Services Health Systems BS 1998
M. Kevin Kassianer Green Dosimetry Fellow University of Rochester BS 2000
M. Andrea Kosar Research Assistant University at Buffalo 2010
M. Barbara Kassianer (married) Information Technology and Services Professional 2005
M. Selahweh Shehab Program Coordinator Comparx for Idaho at Compairx of Greater Buffalo MHA 2006
M. Angeliki Amsel Women's Health-Wellness Legal and Society GA 2004
M. Wyla Amsel Health and Wellness New York Presbyterian Hospital GA 2003
M. Kell Kowalski Medical School Student GA 2003
M. Kay Anne Mann Post-Baccalaureate Keap University Medical School GA 2003
M. Kassianer Angela Nursing Assistant Director of Admissions New York City Health + Hospitals JC 2004
M. Janaki Janaki Program Coordinator Associated Medical Schools 2004
M. Wyla Janaki Social Worker Jewish Family Services MSW 2007
M. Carlos Kassianer Software and Systems Engineer Computer Science Corporation CA 1999
M. Anthony Kassianer Mathematics Education Specialist Mid-Century Elementary School 1991
M. Anu Ameny Math Examiner New York City Board of Education GA 2003
M. Jenna Ashley Navigating Student Programming Coordinator University at Buffalo 2007
M. Kell Amsel-Meeser Medical School Student GA 2007
M. Swiontok Rondell Human Resources Specialist New York City Human Resources Jacobs New York City Board of Education GA 2003
M. Ahmed Khokair Electric Associate News Corp 2010
M. Nael Ayad Electrical Engineer BS 2004
M. Samalit Bostic Owner SAM Software Solutions 1996
M. Sall Bostic Lead Operator CDC New York 2007
M. Sharpelton Bostic Assistant 2008
M. Bobby Bostic Law Enforcement Student UB Law Enforcement Training Center County School of Law and Queensborough Community College 2013
M. Freida Barnes Manager GA 2001
M. Steven Barnes Manager Health and Regulatory Compliance Analyst Parks & Rec 2001
M. Stephanie Barnett Program Specialist John Hopkins University FYW 2010
M. Amalii Barnes Personal Assistant 2008
M. Sheraa Bostic Women's Health Advocate 2003
M. Stasha Becco Graduate School 2011
M. Shangle Berenson Assistant Director of Residence Life Medaille College CSW 2004
M. Alyce Bernard Graduating Student Chemical and Biological Engineering 2013
M. Stephanie Besto Nursing Associate New York Public Library 2003
M. Alison Bob Abbott Teacher Boys & Girls High School 2003
M. Ashley Bob Abbott Teaching Fellow University at Buffalo JC 2013
M. Ashley Bob Abbott Marketing Manager Hertz and Whitney 2004
M. Fabio Bocchi Sales & Marketing Support Engineer Connections Research 2003
M. Carlos Bocchi President, Consultant Kajalwani LLC 1994
M. Jeffrey Churchill Bocchi Technical Producer and Web Developer Photofly 2004
M. Katherine Bocchi Register Nurse 1994
M. Jami Bocchi Assistant to the Chair CIBP York College 2003
M. Kimberly Bocchi Data Protection Specialist, Adjunct Admin Healthcare for Children's Services 2003
M. Daisyn Bocchi Graduating Student University of Florida at St. Cloud 2003
<table>
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<tr>
<th>SAL</th>
<th>FIRST NAME</th>
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<td>67</td>
<td>Michael</td>
<td>Fagan</td>
<td>Research Biologist</td>
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<td>Emily</td>
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<td>Sea Turtle Biologist</td>
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<td>Alphonse</td>
<td>Faulkner</td>
<td>Pedestrian Traffic Engineer</td>
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<td>67</td>
<td>Nicolai</td>
<td>Ferris</td>
<td>Marine Ecologist</td>
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<td>MSc</td>
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<td>Barbra</td>
<td>Fields</td>
<td>Environmental Engineer</td>
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<td>John</td>
<td>Fisher</td>
<td>Urban Planner</td>
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<td>Robert</td>
<td>Fenton</td>
<td>Aerodynamicist</td>
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<td>David</td>
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<td>Aaron</td>
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<td>Sarah</td>
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<td>Wildlife Biologist</td>
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<td>Paul</td>
<td>Santoro</td>
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<td>New York</td>
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<td>Ronnie</td>
<td>Scott</td>
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<td>Durham</td>
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<td>Michelle</td>
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<td>Steven</td>
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<td>Cambridge</td>
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</table>

From Jacobs School of Medicine and Biomedical Sciences/Medical STEP:
Congratulations UB CSTEP! You have provided vital support for thousands of students over the past 30 years. Thank you for consistently being a partner for JSMBS's Medical STEP program.

We look forward to an even stronger partnership for many years to come.

Renee Mapp, M.S.
Senior Education Specialist/Program Coordinator
Medical STEP Program
Many of INROADS’ Top 10 Strategic Partners are Fortune 500 companies; they filled more than 80% of all internship opportunities with STEM majors provided by INROADS.

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For more than 40 years, INROADS has prepared diverse and highly talented youth for corporate and community leadership. Because of this mission, we believe in investing now in leaders who will change tomorrow. Through our development continuum, INROADS begins equipping students with leadership development tools as early as high school, and continues the relationship well through the way to C-suite leadership.

Congratulations CSTEP as you celebrate 30 years commemorating the extraordinary achievements of students and alumni!

Believing that everyone at UB should have the opportunity to achieve their best!

www.buffalo.edu/equity

Jeff, age 43, is a devoted father and husband living with Kidney Disease who is in dire need of a transplant. Becoming an organ donor could save Jeff’s life.

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716.833.3700
The School of Engineering and Applied Sciences applauds the following faculty members on earning the University at Buffalo 2017 CSTEP Distinguished Research Faculty Mentor Award:

Dr. John Crassidis
DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

Dr. Karthik Dantu
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dr. Ravi Ranade
DEPARTMENT OF CIVIL, STRUCTURAL AND ENVIRONMENTAL ENGINEERING

Dr. Natesh Parashurama
DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING

Congratulations!

Congratulations on 30 years of scholarly excellence CSTEP.
Continue to build the seamless bridge from STEP to CSTEP

Visit Janie’s Emporium in the store, online, or on the road!
Shop with us online, on the road with our Pop Up Boutique, or in store to view the latest handcrafted jewelry, home accents, fashion, and bath & body products for yourself, friends, and family.
Did you know that we host private events at our boutique? Book Janie’s Emporium for your next meeting, brunch, girls night out, birthday party, or other special occasion and enjoy food, music and shopping!

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Make connections with highly influential women in STEM who can be resources and serve as mentors to WISE participants.

Make discoveries
WISE women participate in research as early as their first year on campus and continue through their undergraduate and graduate careers.

Find support
Develop friendships with like-minded freshmen at the WISE Welcome and participate in coordinated study groups throughout the semester.

Enhance skills
Join peers and faculty for informal conversations about topics such as time management, work/life balance and study skills.

Volunteer locally
Volunteer with local K-12 schools in Buffalo to inspire interest in STEM.

Consider options
Learn about careers in your area of interest and prepare for graduate school or employment after graduation.

Prepare wisely
When you graduate, your toolbox will be filled with the skills you need to take on technical, societal, environmental and economic issues.

For more information visit wise.buffalo.edu
ESI and the Department of Electrical Engineering would like to congratulate the 2017 graduating class of CSTEP – UB, the CSTEP GEM award recipients who have distinguished themselves in their professions and/or community, and the CSTEP Distinguished Research Mentors who realize diversity is the key and continue to support the CSTEP – UB endeavors.

ESI whole-heartedly believes in CSTEP-UB’s mission to improve the academic status of minority and/or economically disadvantaged students who historically have been underrepresented in Engineering and other STEM fields. The ESI is also proud to have supported the following CSTEP students over the years:

- Michael Dane Alexander
- Afeez Ayinde
- Sharece Blake
- Derek Brim
- Kevin Burke, Ph.D.
- Gavin Campbell
- Jahmil Campbell
- Akinlaja Caulcrick
- Brianna Clark
- Christine Cortes

- Folarin Erogbobo, Ph.D.
- Moses Farley
- Akeem Francis
- Jarrett Franklin
- Steven Jean-Julien
- Joseph Mahan
- Darryl B. McCune
- Syania Mixon
- Carlos Morillo
- Herick Nelson

- Shola Olabisi, Ph.D.
- Barnard Onyenucheya
- Iyamu Osazuwa
- Behanzin Reid
- Michael Singleton
- Michael Sparks
- Kimberly Tomlinson
- Antonio Upia
- Lisa Rae Zoldos

We would like to offer a special thank you to all of the CSTEP-UB staff and personnel for continually giving more of themselves that what is required to make the program the success that it is.

**Congratulations to CSTEP for providing yet another year of quality support services to the leaders of tomorrow!**

"To whom much is given..."