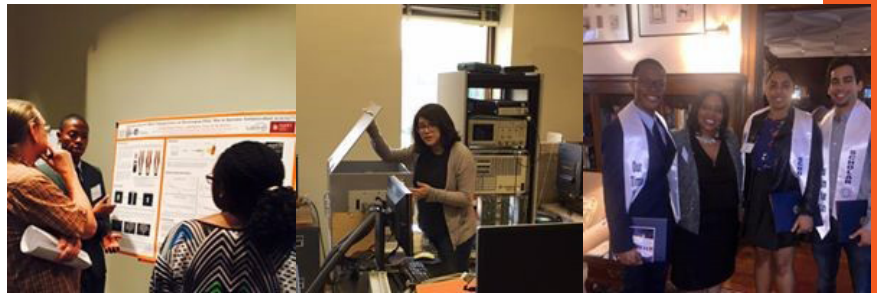


# UPSTATE LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION



<http://lsamp.syr.edu/ulsamp>



The goal of the **Upstate Louis Stokes Alliance for Minority Participation (ULSAMP)** is to recruit, retain, and graduate an increasing number of underrepresented minority (African-American, Alaskan Native, American Indian, Hispanic American, Native Hawaiian, and Native Pacific Islander) students in science, technology, engineering, and mathematics (STEM) fields and to provide early student research experiences to foster graduate school enrollment in Upstate New York. ULSAMP was established in 2007.

## Grand Challenge

Strengthen the 2-year to 4-year pathway by increasing support for community college students

## Focus Areas

- Research experiences during the summer and academic year including experiences for first year students
- Bridge program for transfer students
- Opportunities for graduate school preparation
- Preparation in STEM courses during the first two years
- Students presenting research at conferences

## ULSAMP Objectives, Years 2017-2022

- Increase the number of underrepresented minority (URM) **students transferring from community colleges** to four-year STEM studies at Alliance universities
- Improve the **retention** of URMs in STEM majors **after their first and second years**
- Increase the **total enrollment** of URMs in the STEM disciplines
- Increase the **baccalaureate degree** attainment of URMs in STEM
- Increase URM bachelor degree recipients pursuing **graduate studies in STEM**

## Alliance Members

- **Clarkson University**  
Marjorie Warden, [mwarden@clarkson.edu](mailto:mwarden@clarkson.edu)
- **Cornell University**  
Jami P. Joyner, [jami.joyner@cornell.edu](mailto:jami.joyner@cornell.edu)
- **Onondaga Community College**  
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- **Monroe Community College**  
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- **Rensselaer Polytechnic Institute**  
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- **Rochester Institute of Technology**  
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- **Syracuse University**  
Tamara N. Hamilton, [tnhami01@syr.edu](mailto:tnhami01@syr.edu)

## Alliance Leadership

### Principal Investigator

- Dr. Michele G. Wheatly  
Vice Chancellor and Provost  
Syracuse University  
[mwheatly@syr.edu](mailto:mwheatly@syr.edu)



### Co-Principal Investigators

- Tamara N. Hamilton, [tnhami01@syr.edu](mailto:tnhami01@syr.edu)  
ULSAMP Project Director, Syracuse University
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Onondaga Community College
- Dr. Andria Costello Staniec, [costello@syr.edu](mailto:costello@syr.edu)  
Syracuse University
- Dr. Dawn Johnson, [drjohn02@syr.edu](mailto:drjohn02@syr.edu)  
Syracuse University

## ULSAMP Alliance Impact

- The total fall enrollment for undergraduate URM students at ULSAMP institutions increased from 1,943 STEM students in 2007 to 3,594 students in 2016.
- The total number of URM STEM bachelor degrees awarded by ULSAMP institutions increased from 249 in 2007-2008 to 611 in 2016-2017.
- Since 2007, ULSAMP institutions have awarded 4,186 STEM degrees to URM students.
- Each year ULSAMP activities support over 200 URM STEM students.

### URM STEM Fall Undergraduate Enrollment

2012	2013	2014	2015	2016
2949	3108	3614	4044	3594

### Bachelor's Degrees Awarded to URM STEM Students

'12-'13	'13-'14	'14-'15	'15-'16	'16-'17
417	487	563	597	611

\* URM STEM: Underrepresented minority students studying science, technology, engineering, and mathematics

## Student News and Accomplishments

- **Bryan Antonio, BS'15, Applied Engineering Physics (Cornell):** GEM Associate Fellowship
- **Amber Barrow, BS'17 Neuroscience and Biology (Syracuse):** Awarded a Fulbright Research Scholarship to travel to Sun Yat-Sen University in Guangzhou, China to promoting student focused sex education intervention for local high schools and universities; Received a Blakemore Freeman Foundation Fellowship.
- **Kendrick Cancio, BS'16, Operations Research (Cornell):** GEM Full Fellowship, Internship with MIT Lincoln Laboratory.
- **Iriny Ekladius, BS'12, Biological Engineering (Cornell):** NSF Graduate Research Fellowship Program.
- **Firehiwot Gurara, BS'18, Electrical and Computer Engineering (Cornell):** IEEE Power & Energy Society Scholarship.
- **Adam Lowery, BS'14, Mechanical Engineering (Cornell):** GEM Full Fellowship, Internship with Brookhaven National Laboratory.
- **Brennica Marlow, BS'14, Chemistry and Chemical Biology (Cornell):** NSF Graduate Research Fellowship Program.
- **José L. Marrero-Rosado, BS'17, Biochemistry and Anthropology (Syracuse):** Received a two-year Greater Research Opportunities (GRO) Undergraduate Fellowship from the Environmental Protection Agency (EPA), which includes a \$50,000 grant. Jose's LSAMP research project investigated the toxicity of chemicals present in Onondaga Lake in New York.
- **Alexis Pena, BS'16 Bioengineering (Syracuse):** Received Honorable Mention for the NSF Graduate Research Fellowship Program; Research Award for her poster, *Computational investigation of tight junctions* at the 2014 Annual Biomedical Research Conference for Minority Students (ABRCMS); Awarded first place for her research *Antimicrobial peptide interaction with bacterial membranes*, in the biological sciences category at the 2015 Emerging Researchers National Conference in Science, Technology, Engineering, and Mathematics conference; 2016 Student Research Award from the Black Engineer of the Year STEM Conference.
- **Ephrath Tesfaye, BS'15, Biological Sciences (Cornell):** NSF Graduate Research Fellowship Program, Honorable Mention; John W. Estey Outstanding Scholar Award.
- **Christian Zollner, BS'16, Engineering Physics (Cornell):** NSF Graduate Research Fellowship Program.

