

# UNIVERSITY OF LOUISVILLE

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Louis Stokes Alliance for Minority Participation (LSAMP) Program  
FY2017-18 Annual Report



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## About the Program

The Louis Stokes Alliance for Minority Participation (LSAMP) is a National Science Foundation initiative aimed at increasing the quality and quantity of students successfully completing science, technology, engineering and mathematics (STEM) baccalaureate degree programs, and increasing the number of students interested in, academically qualified for and matriculated into programs of graduate study. LSAMP supports sustained and comprehensive approaches that facilitate achievement of the long-term goal of increasing the number of students who earn doctorates in STEM fields, particularly those from populations underrepresented in STEM fields.

As part of the KY-WV alliance, the University of Louisville has developed a program consistent with LSAMP goals. The program is administered through a collaboration between the Cultural Center and Health Science Campus Office of Diversity & Inclusion. The mission of the program is to help diversify the science, technology, engineering and mathematics industries through efforts aimed at increasing the number of students earning baccalaureate degrees in these disciplines. Program activities and resources focus on outreach, academic support, peer connections, undergraduate research experience, research presentation and conference attendance opportunities. All majors in a STEM discipline are eligible to participate in the program.

Benefits for University of Louisville students in the LSAMP Program include:

- Receive up to a \$900 stipend each year
- Access to conference and travel funding
- Supplemental instruction or tutoring
- KY-WV Annual Research Symposium attendance
- Personal coaching from program staff and mentors
- Access to personal and professional development workshops
- Networking opportunities with STEM faculty and staff
- Industry & facility tours in the Louisville area



V. Faye Jones, M.D., Ph.D., M.S.P.H.  
**Campus Coordinator**



Katie Leslie, Ph.D.  
**Campus Coordinator**



Leondra Gully, M.Ed  
**Campus Coordinator**



Karen Udoh, Senior  
**Student Assistant**

# BY THE NUMBERS<sup>∞</sup>2017-18

36	Monthly programs hosted by the LSAMP program
14	Partnerships developed within student affairs & academic units
3.18	Fall 2017 mean cumulative grade point average for participants
70	Undergraduate URM student participants in the program
2,464	Community service hours completed by participants
10	Participants selected for full-time summer research programs
187	Professional development workshops attended by participants
3.30	Spring 2018 mean cumulative grade point average for participants
10	Participants served as LSAMP Ambassadors
1,385	Tutoring & supplemental instruction hours completed
6	Participants completed academic-year internships in STEM areas
10	Participants completed academic-year faculty mentored research
2	Participants selected to present at the NSF REU program in France

# 2017-2018 LSAMP Scholars



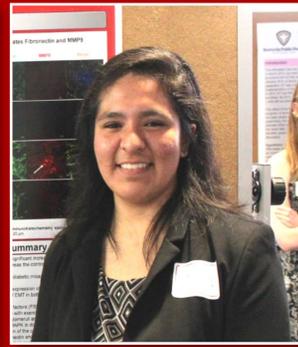
**Aaliyah Mack**  
Biology  
Freshman



**Alana Gipson**  
Biology  
Freshman



**Alyssa Delph**  
Chemistry  
Sophomore



**America Silva**  
Biology/Biochemistry  
Junior



**Anoa Zakee**  
Biology  
Junior



**Austin Bullitt**  
CIS  
Junior



**Bertha Aguazul**  
Biology  
Freshman



**Bobbi Wall**  
Biology  
Freshman



**Brooke Armenta**  
Biology  
Sophomore



**Caitlin Powell**  
Chemistry  
Sophomore



**Cherie McMurry**  
Biology  
Freshman



**Christabel Kusi Appiah**  
Biology  
Freshman



**Clayton Epps**  
Electrical Engineering  
Freshman



**Dennis Mashindi**  
Biology  
Freshman



**Desiree Cole**  
Bioengineering  
Freshman



**Eliceo Jaramillo**  
Engineering  
Freshman



**Emma Kubash**  
Biology  
Freshman



**Ephraim Otieno**  
Chemistry  
Sophomore

2017-2018 LSAMP Scholars



**Erika Tucker**  
Industrial Engineering  
Sophomore



**Esther Tabugbo**  
Biology  
Sophomore



**Evonie Daugherty**  
Biology  
Sophomore



**Fadumo Abdullahi**  
Biology  
Sophomore



**Isaiah Williams**  
Computer Science/  
Engineering  
Freshman



**Jada Biggers**  
Biology  
Sophomore



**Janae Boyd**  
Civil Engineering  
Freshman



**Jasmine Thomas**  
Biology and Marketing  
Junior



**Jeanine Bwenge**  
Biology  
Freshman



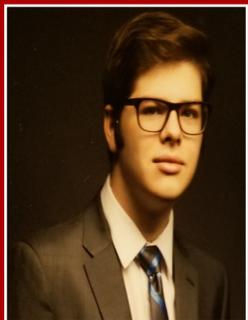
**Jeremy Boyd**  
Computer Science/  
Engineering  
Freshman



**Joel Mwambayi**  
Computer  
Information Systems  
Junior



**Jose Alvarez**  
Civil Engineering  
Sophomore



**Joseph Garcia**  
Geography  
Sophomore



**Julie Nwosu**  
Biology  
Freshman



**Justin Williams**  
Mechanical Engineering  
Junior



**Kendra Ford**  
Chemical Engineering  
Senior



**Kiara Smith**  
Biology  
Junior



**Kyler Bohn**  
Bioengineering  
Freshman

2017-2018 LSAMP Scholars



**Laura Acevedo**  
Industrial Engineering  
Sophomore



**Lauren Curd**  
Computer Information  
Systems  
Sophomore



**Lima Alokailia**  
Biology  
Freshman



**Lloyd Bartley**  
Biology  
Senior



**Madison Cooke**  
Biology  
Freshman



**Manuela Botaka**  
Biology  
Junior



**Michael Rowlett**  
Exercise Science  
Senior



**Mikayla Demetrakis**  
Biology  
Sophomore



**Mina Ibrahim**  
Biology  
Sophomore



**Morgan Jicka**  
Biology  
Freshman



**Najma Noor**  
Biology  
Freshman



**Nicolas Ferreyra**  
Mechanical Engineering  
Sophomore



**Noela Botaka**  
Biology  
Junior



**Onajia Stubblefield**  
Civil/Environmental  
Engineering  
Junior



**Oby Igwe**  
Biology  
Senior



**Rachel Durbin**  
Industrial Engineering  
Freshman



**Ronald Kongi**  
Engineering  
Sophomore



**Ruth Metellus**  
Biology  
Sophomore

2017-2018 LSAMP Scholars



**Ryo Josephs**  
Computer Science  
Junior



**Sabina Chertmanova**  
Bioengineering  
Sophomore



**Sada Wane**  
Biology  
Freshman



**Samuel Roller**  
Chemical Engineering  
Freshman



**Savannah Kennedy**  
Computer  
Information Systems  
Junior



**Shannon Derkson**  
Psychology  
Sophomore



**Shante Williams**  
Biology  
Freshman



**Stephanye Blakely**  
Computer Engineering  
Sophomore



**Sydney Johnson**  
Biology  
Freshman



**Talyzia Jenkins**  
Biology  
Freshman



**Taylor Fisher**  
Bioengineering  
Junior



**Teah Williams**  
Chemistry/  
Biochemistry  
Sophomore



**Trekele Smith**  
Computer Science/  
Engineering  
Senior



**Zainab Soofe**  
Biology  
Freshman



**Zariyah Cribbs**  
Biology  
Chemistry



**Zayra Barragan**  
Biology  
Freshman

# LSAMP Ambassador Program

LSAMP Ambassadors serve as leaders on the University of Louisville campus. They help current LSAMP participants get connected with research and resources; assist in the planning, organizing, and implementation of workshops and events for the LSAMP program. Ambassadors expected to:

- Regularly communicate with LSAMP participants
- Co-coordinate LSAMP activities (service opportunities, social events, and study sessions)
- Attend and participate in student-led programming
- Represent the program and pre-determined events (information fairs, recruitment events, etc.)

## 2017-18 AMBASSADORS

Fadumo Abdullahi

Christabel Kusi Appiah

Austin Bullitt

Manuela Botaka

Noela Botaka

Emma Kubash

Ruth Metellus

Kiara Smith

Erika Tucker

Shante Williams

## Student Awards & Recognition Social

The Student Awards and Recognition social is a student led celebration of academic success and student engagement. These awards and superlatives acknowledge the hard work, dedication, engagement and perseverance of students within the program—those who demonstrate their commitment to being an active and engaged LSAMP scholar.

Winners for the 2017-18 academic year included:

### Awards

- ◆ LSAMP Scholar of the Year: Shannon Derkson
- ◆ Most Involved Award: Janae Boyd
- ◆ Academic Achievement Award: Brooke Armenta
- ◆ Most improved Involvement: Ruth Metellus
- ◆ Community Service Award: Anoa Zakee

### Superlatives

Shannon Derkson ◆ Esther Tabugbo ◆ Mina Ibrahim  
Manuela Botaka ◆ Kiara Smith ◆ Karen Udoh





# Fall 2017 Events



### **Program Kickoff Meeting**

September 27

Attendance: 39

First meeting of the academic year to discuss program overview and serve as a meet & greet for program participants and staff.

### **Study Session**

October 3

Attendance: 20

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

### **Industry Tour: First Build**

October 13

Attendance: 19

FirstBuild is a global co-creation community that speeds products from mind to market & enables customization through small batch production.

### **Student Success Seminar: Study Skills**

October 16

Attendance: 13

Learn general study skills and metacognitive strategies that will help you study smarter and get more from your study time.

### **Program Meet & Greet**

October 27

Attendance: 7

Meet & greet for program participants KY-WV LSAMP Director Fara Williams.

### **Service Project: Supplies Overseas**

October 20

Attendance: 7

Supplies Over Seas (SOS) is a non-profit organization that collects and distributing surplus medical supplies & equipment to medically impoverished communities.

### **Graduate & Professional School Information Session**

October 26

Attendance: 9

Session are designed to provide general information about the process of applying to a graduate program, answer questions, and highlight UofL programs.

# September & October 2017 Events

### **Study Session**

November 6

Attendance: 15

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

### **Faculty Research Panel**

November 14

Attendance: 28

Panel discussion featuring UofL STEM faculty whom discuss their career paths and information related to their research interests.

### **Facility Tour: Paris Stimulation Center**

November 17

Attendance: 20

Facility for training of current & future healthcare professionals at UofL. It features 4 simulation suites with a control room, classroom and computer controlled mannequin.

### **General Body Meeting**

November 21

Attendance: 21

Meeting held as a check-in with program participants and to discuss upcoming events.

### **Holiday Social**

December 1

Attendance: 24

Fun afternoon of hors-d'oeuvres and games to celebrate the end of the semester. Test preparation information also distributed.

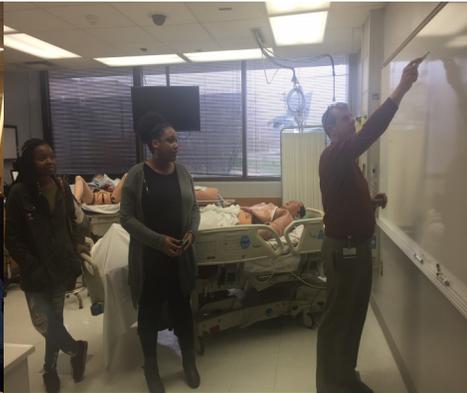
### **Study Session**

December 4

Attendance: 10

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

# November & December 2017 Events



# Spring 2018 Events



### **General Body Meeting**

January 9

Attendance: 20

First meeting of the Spring semester year to discuss program overview and serve as a meet & greet for program participants and staff.

### **Stress Resilience Workshop**

January 17

Attendance: 8

Discussion of the science of stress resilience as it relates to learning & thriving. Students identify pressing stressors & explore creative responses that actually work.

### **Resume Writing Workshop**

January 19

Attendance: 9

Session on how to transform resumes into a tool that will help secure interviews. Students learned about various resume formats and how to identify the best fit for them.

### **Student Success Seminar: Taking Effective Notes**

January 24

Attendance: 14

Session discussing various methods for taking notes in class, the importance of note taking and how taking and using notes can increase your learning.

### **Study Session**

January 29

Attendance: 15

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

### **PLAN Workshop: How to Get Into Graduate School**

January 31

Attendance: 11

Workshop designed to provide information, advice, and resources to help students apply and get into graduate school.

# January Events

### **Minority Pre-Health Symposium**

February 10

Attendance: 12

Undergraduate university students interested in health sciences careers are invited to receive information & tools necessary to succeed in the professional and graduate school.

### **Self-Care Workshop**

February 16

Attendance: 12

Workshop held to discuss several self-care techniques that can be helpful for students in relieving and managing stress in a variety of situations.

### **Faculty Research Panel**

February 20

Attendance: 20

Panel discussion featuring UofL STEM faculty whom discuss their career paths and information related to their research interests.

### **Social: Game Night & Movie**

February 23

Attendance: 14

Event for students to get to know each other and have a little fun after studying.

### **Study Session**

February 27

Attendance: 12

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

# February Events

### **General Body Meeting**

March 1

Attendance: 22

Meeting held to discuss the Annual KY-WV LSAMP symposium details, travel arrangements and logistics.

### **KY-WV LSAMP 10th Annual Research Symposium**

March 2– March 3

Attendance: 34

Annual research symposium held by the KY-WV LSAMP Program.

### **Study Session**

March 19

Attendance: 10

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

### **Zing! Re-Charge Your Energy on Purpose Workshop**

March 23

Attendance: 9

Workshop to identify key energy drainers and learn how to fix the leaks by plugging into UofL wellbeing resources.

### **Research 101: How to Start**

March 28

Attendance: 8

Workshop presented on how on how to identify and contact a faculty member and how to explore various programs including UofL research opportunities.

# March Events

**Facility Tour: Paris Stimulation Center**

April 6

Attendance: 6

Facility for training of current & future healthcare professionals at UofL. It features 4 simulation suites with a control room, classroom and

**Student Success Seminar: Preparing for Finals**

April 10

Attendance: 10

Workshop to examine strategies and systems that can help students maximize their efforts and study methods for final exams.

**Facility Tour: 3D Printing Tour**

April 12

Attendance: 6

Students learned how to use a basic 3D computer for designing and printing plastic models.

**Service Opportunity: Kentucky Science Center**

April 13

Attendance: 5

Students assisting staff with designing and painting various crafts and structures used for their exhibits.

**Study Session**

April 16

Attendance: 14

Collaborative group learning space which allows students of all learning styles to share notes & ideas with their peers for a better understanding of course material.

**Career Planning Workshop**

April 17

Attendance: 10

Workshop to help students identify the best career path for them in addition to being provided with tools to help students develop their own career plan

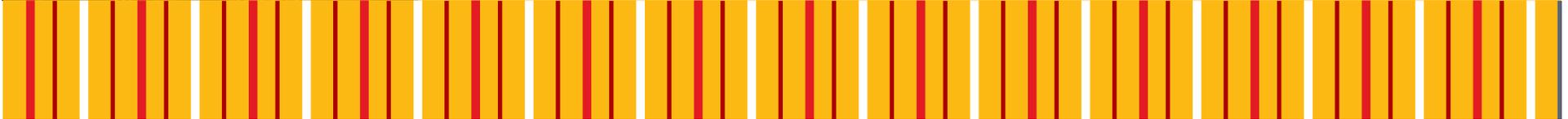
**End of the Year Social**

April 20

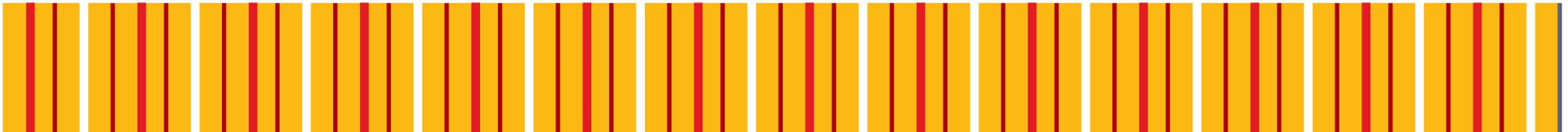
Attendance: 18

Event held to acknowledge the end of semester and accomplishments of program participants.

# April Events



# KY-WV LSAMP 10<sup>th</sup> Annual Research Symposium



The KY-WV Louis Stokes Alliance for Minority Participation Research Symposium was held at the University of Kentucky on March 2-3, 2018. Speakers at the event included Dr. RaiAnna Arscott-Hopson, Kathy DeBoer, Cagney Coomer, Kayla Titalii, and Trevor Claiborn. This year the UofL LSAMP Program traveled with 34 students and 4 staff to the symposium. During the event students participated in workshops on communications and dress etiquette. Participants also attended oral and poster presentations presented by LSAMP students from other alliance institutions included five students from the University of Louisville.

**Role of Mating Loci and Ammonium Transporter Expression in Stressor Sensitivity of Haploid Cells of Ustilago Maydis and Levels of Pathogenicity**

Author: Lloyd Bartley

Funding: National Science Foundation, KY-WV LSAMP

**Exploring Concordance between Sputum Eosinophil Analysis and Fractional Exhaled Nitric Oxide in Older Adults with Asthma**

Authors: Noela Botaka, Anna Jorayeva, Bryan Beatty, Diane Endicott, and Barbara Polivka

Funding: National Institute on Aging under Award Number R01AG047297 and the National Cancer Institute R25 CA-134283 Cancer Education Program Grant.

Mentor: Dr. Barbara Polivka, School of Nursing

**Neuronal Degeneration and Short-term Memory Impairment after TBI"**

Authors: Obiamaraije Igwe and Nino Muradashvili, M.D.

Funding: UofL Summer Cardiovascular Research Program, NIH, AHA, UofL SOM Basic

Mentor: Nino Muradashvili, M.D., UofL Health Science Campus, Physiology Department

**Linking Epigenetic Regulation of Short-Chain Fatty Acids Receptors with Hydrogen Sulfide Supplementation in Hypertensive kidney**

Authors: Jaleyee Foster; Gregory Weber, Ph.D.; and Utpal Sen, Ph.D.

Funding: ULSOM department of physiology, National Institute of Health

Mentor: Dr. Utpal Sen, University of Louisville

**Regulation of Protein Acetylation by the RASSF1A Tumor Suppressor**

Authors: Manuela Botaka, Geoffrey J. Clark and M. Lee Schmidt

Funding: R25-CA134283 UofL Cancer Education Program

Mentor: Geoffrey J. Clark

# SENIOR SPOTLIGHT OBY IGWE

## Campus Involvement Highlights:

- Multicultural Association of Premedical Students (MAPS)
- Alpha Epsilon Delta
- Kappa Theta Alpha Sorority
- SeoUL-K
- Miss Black UofL Pageant participant

## What are your future plans?

While pursuing a Masters Degree in Physiology I will working to apply for medical school.

## What was your favorite aspect of the LSAMP program?

I really valued that the program is a diverse group of students that work together towards a common goal of academic achievement in the STEM field.

## What advice would you give to incoming participants?

Never be afraid to ask for new opportunities whether it be research, conferences or internships. Make a positive impact on your professors and mentors so that they know you are putting in the work to achieve your goals!



# SENIOR SPOTLIGHT TREKELE SMITH

## Campus Involvement Highlights:

- Association for Computing Machinery (ACM)
- National Society of Black Engineers (NSBE)-UofL Chapter
- Alpha Phi Alpha Fraternity, Incorporated

## What are your future plans?

I am currently working as an Applications Developer at UPS. I will be pursuing a masters degree in Computer Engineering and Computer Science at UofL.

## What was your favorite aspect of the LSAMP Program?

I really enjoyed the community service opportunities offered through the program.

## What advice would you give to incoming participants?

I would encourage students to really take advantage of the program and attend as many events as possible.



# SENIOR SPOTLIGHT KAREN UDOH

## Campus Involvement Highlights:

- Kappa Alpha Theta Sorority
- Voices in Action
- RaiseRed Dance Marathon
- Student Activities Board Diversity Committee
- Muhammad Ali Scholar Program

## What are your future plans?

I will be conducting research in Greece as part of the Fulbright Scholars Program and attending the University of Louisville School of Medicine in 2019.

## What was your favorite aspect of the LSAMP Program?

I really enjoyed able to meet such a diverse group of scholars and helping them with their undergraduate experience.

## What advice would you give to incoming participants?

Always be proud of who you are and where you come from. Never let your mistakes define you. You can instead learn from these experiences to help you reach your full potential.

