

Lelia Hampton

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Education

Spelman College, Atlanta, GA
Computer Science Major, Comparative Women's Studies Minor
Expected Graduation Date: May 2020
Overall GPA: 3.89, Summa Cum Laude

Pontificia Universidad Católica Madre y Maestra, Santiago, Dominican Republic
Council on International Educational Exchange Program
May 2019

Awards/Honors

Dean's List (Spring 2017, Fall 2018, Spring 2019)

- Earned a GPA above 3.8

Spelman College Academic Dean's Scholarship (2016-2020)

- Funded for tuition at my undergraduate institution

Thurgood Marshall College Fund Department of Defense Scholar

- Funded for STEM undergraduate education

Clara Boothe Luce Scholar (2018-2019, 2019-2020)

- Received research support to perform research with a Spelman professor during the academic year

Grace Hopper Conference Scholar (2018)

- Funded to attend conference by the AnitaB.Org Institute

Tapia Scholar (2018 and 2019)

- Funded to attend conference by Microsoft and BNY Mellon, respectively

Upsilon Pi Epsilon (Fall 2018)

- Accepted as a member of the computing honor society

Research and Experience

Massachusetts Institute of Technology • Media Lab

June 2019 to August 2019

Summer Research Program Intern

- Accepted as one of 40 students out of 456 applicants
- Conducted research on an in situ water observation system to monitor growth of an invasive species
- Expanded the system's lifetime from 3 hours to 2 weeks through engineering design
- Presented my research to the MIT Media Lab and several MIT faculty, respectively

Clara Boothe Luce Scholar Program — September 2018 to May 2019

- Performed research on the use of Black music as a culturally relevant pedagogical tool to teach African American female students the concept of recursion
- Formulated several literature reviews, performed data analysis for experiments, prepared the Institutional Review Board application, wrote the abstract, and presented the research to Spelman College
- Published research at ACM SIGCSE '20

Microsoft Research

May 2018 to August 2018

Undergraduate Research Intern

- Performed research in human-computer interaction in the Productivity Group and Information and Data Sciences Group at the intersections of attention, productivity, and work meetings through the use of a chatbot
- Formulated a literature review, wrote a survey, analyzed quantitative and qualitative data from the survey, and developed and tested the chatbot

Georgia Tech Research Institute • Electronic Systems Laboratory

January 2018 to May 2018

Student Co-op

- Developed software for system analysis, process control, and data acquisition in C and C++
- Managed the creation of PC applications, design, fabrication and testing of digital hardware for military avionics systems
- Gained hands on experience in Linux, networking and operating systems

Culturally Relevant Computing Lab • Morehouse College
Research and Development Intern

November 2017 to present

- Developed a robust Twitter conversational agent that answers questions about graduate school in order to address the underrepresentation of African Americans in the computer science professoriate
- Published and presented my research at ACM Southeast

National Aeronautics and Space Administration • Marshall Spaceflight Center
Systems Engineer Intern

May 2017 to August 2017

- Managed databases using metadata, data conversion, and data cleansing for SLS data

Publications

- David James and **Lelia Hampton**. 2020. Using Black Music as a Bridge to Understanding Introductory Programming Concepts. In Proceedings of the 2020 on ACMCSE 2020 Conference (SIGCSE '20). ACM, New York, NY, USA.
- Danielle Wood, Fohla Mouftaou, Temilola Fatoyinbo-Agueh, David Lagomasino, Eric Ashcroft, Ufuoma Ovienmhada, **Lelia Hampton**, Lisa Orii, TojumiOluwa Adegbayega, Anisha Nakagawa, and Juliet Wanyiri. 2019. Co-Designing an Environmental Observatory to Support Eco-Entrepreneurship in Benin. American Geophysical Union.
- **Lelia Hampton**, Robert Cummings, and Kinnis Gosha. 2019. Improving Computer Science Instruction and Computer Use for African American Secondary School Students: A Focus Group Exploration of Computer Science Identity of African American Teachers. In Proceedings of the 2019 on Computers and People Research Conference (SIGMIS-CPR '19). ACM, New York, NY, USA, 78-84.
- **Lelia Hampton** and Kinnis Gosha. 2018. Development of a Twitter graduate school virtual mentor for HBCU computer science students. In Proceedings of the ACMSE 2018 Conference (ACMSE '18). ACM, New York, NY, USA, Article 42.

Activities

Spelman Robotics Team • Member

September 2016 to May 2020

- Developed machine learning software for robots and partook in youth community outreach for STEM

Teaching Assistant • Computer Organization and Design

Fall 2019

- Selected to provide support to 20 students and guide students on homework and lab assignments

Teaching Assistant • Computer Science I in Python

Spring 2017

- Selected to provide support to 30 students and prepare lessons/worksheets for Python introduction

Projects

Washington State Climate Change Case Study

- Applied machine learning models to climate change data and compiled a literature review

Selected Community Involvement

Black Girls CODE

October 2016 to Present

- Served as a teaching instructor for various workshops, including Robotics, Game Jam, and Virtual Reality

Georgia Tech Catalyst

April 2019

- Provided technical support during lessons for underrepresented high school students interested in pursuing computing

CodeHouse 2019

April 2019

- Guided middle school students during a day of computing exposure