



2020 PRiME:

Pomona Research in Mathematics Experience



General Information

The Department of Mathematics at Pomona College will offer a 6-week virtual program to conduct research in mathematics history. The program, entitled PRiME (Pomona Research in Mathematics Experience), will run from June 15 through July 24, 2020. The program is being sponsored by the National Science Foundation (DMS-1560394). The program is directed by Edray Goins (Pomona College). During the six week program, students will work together on research projects focusing on African American mathematicians. Students will:

- Learn about African Americans in the mathematical sciences by writing biographies,
- Updating the *Mathematicians of the African Diaspora* by adding to the database of black mathematicians, and
- Participate in discussions involving the experiences of African Americans in the mathematical sciences.

Goals and Expectations

During the summer, each of the undergraduate participants will:

- Complete a research project done in collaboration with other PRiME students.
- Give a presentation at MAA's MathFest and write a technical report.
- Attend a series of colloquium talks given by leading researchers in their fields.
- Attend workshops aimed at developing skills and techniques needed for research careers in the mathematical sciences.

In order to successfully complete this project, participants will:

- Meet at least 5 hours every week for a minimum of 6 weeks.
- Be introduced to database maintenance and website design.
- Learn how to use \LaTeX , a mathematical typesetting language.
- Write a technical paper explaining the details of the project.
- Design a poster giving an overview of the project.

Stipend and Travel

Participants in the PRiME program will receive a stipend of \$2,000 for the 6-week program. Since this will be a virtual program, there will not be funds allocated for housing or travel.

Prerequisites and Application Instructions

Students must be undergraduates in good standing, although preference will be given to applicants who will begin either their junior or senior year in the Fall of 2020. National Science Foundation (NSF funding also requires that participants must be either US Citizens or Permanent Residents. An application will consist of a short e-mail which should include:

- A paragraph stating why you would like to participate in this program, and
- The names and emails of two faculty who can be contacted as references.

Applications for the PRiME program should be emailed directly to Edray Goins at edray.goins@pomona.edu.



The program is being sponsored by the National Science Foundation (DMS-1560394). For more information, contact Edray Goins at (909) 621-8711 or edray.goins@pomona.edu; or visit the website <http://research.pomona.edu/prime>.