22nd Annual Undergraduate Research Symposium

Poster Presentations
11am to 1pm

October 18th, 2019
GSU Metcalf Ballroom
Welcome to Boston University’s 22nd Annual Undergraduate Research Symposium! We are honored to have you engage with our high-achieving students and supportive faculty mentors. They have collaborated over the past year working on groundbreaking research.

The Undergraduate Research Opportunities Program (UROP) is a university-wide program that funds undergraduate students to conduct research with BU faculty members in all disciplines. UROP’s mission is to nurture curiosity, to capture imagination, and to cultivate relationships between faculty and students beyond the classroom to shape independent, innovative, and collaborative leaders.

Enjoy and be inspired!

Chip Celenza
Director
Melissa Johnson
Assistant Director
Diána Hughes
Program Administrator

Acknowledgments

UROP is supported primarily by Boston University’s Office of the Provost. We are particularly indebted to Associate Provost for Undergraduate Affairs Elizabeth Loizeaux for her continued encouragement and enthusiasm. We also thank our faculty advisory committee for their efforts in reviewing applications and guiding UROP to achieve its mission. Most importantly, we thank our faculty mentors for providing learning environments for our undergraduates and thus making UROP possible.

In addition, we thank the following financial sponsors for their generosity:
Funds from faculty research grants
Boston University Arts Initiative
National Science Foundation
The Arnold & Mabel Beckman Foundation
Clare Boothe Luce Program of the Henry Luce Foundation
New England Biolabs
Friends & Family of Dr. Mark Riemen
Friends & Family of Dr. Mary Erskine
Dr. Loren E. Wold
Outstanding Students

Students who have excelled

**Outstanding Students**

- **Allison Casey, CAS '20**
  - BET Bromodomain Proteins Regulate T Cell Expression of Multiple Immune Checkpoint Molecules
  - Nominated by Prof. Gerald Denis (MED Medicine and Pharmacology)

- **Anna Harris, CFA '20**
  - The Dangers of Musical Taste: Cycles of Marketing, Hierarchy, and Hegemony
  - Nominated by Prof. Rachana Vajjhala (CFA Musicology)

- **Meera Kumanan, CAS '20**
  - Investigating Structural Reorganization and Lipid Interactions of Serum Amyloid A using MD Simulations
  - Nominated by Prof. Olga Gursky and Prof. John Straub

- **Lolo Serrano, CAS '21**
  - Representation of Technology by the Mexican Press, 1896-1914: a Tool for Literary Analysis
  - Nominated by Prof. Adela Pineda (CAS Romance Studies)

- **Aron Malatinszky, CAS '20**
  - Class Size and Educational Achievement: Evidence from Hurricane Katrina Evacuees
  - Nominated by Prof. Daniele Paserman (CAS Economics)

- **Raina Williams, CAS '20**
  - The Effect of Health Impact Investors on the Overall Successes of Health Enterprises
  - Nominated by Prof. Emily Barman (CAS Sociology)

- **Meera Kumanan, CAS '20**
  - Investigating Structural Reorganization and Lipid Interactions of Serum Amyloid A using MD Simulations
  - Nominated by Prof. Olga Gursky and Prof. John Straub

Outstanding Mentors

Mentors who inspire

**Outstanding Mentors**

- **Andrew David**
  - (CAS History)
  - Nominated by Darian Radzikowski, CAS '20

- **Sean Elliott**
  - (CAS Chemistry)
  - Nominated by Wei-Lun Tsai, CAS '20

- **Guido Salvucci**
  - (CAS Earth & Environment)
  - Nominated by Joshua Taylor, CAS '21

- **Susanne Sreedhar**
  - (CAS Philosophy)
  - Nominated by Yingshihan Zhu, CAS '20
Presentation Times
Approximately half of the student researchers will be presenting in each poster session.

Poster Session 1
11am to 12pm

Poster Session 2
12pm to 1pm

Stick around to see both!

Symposium Key
What do you want to learn?

- Biological Sciences (1 - 33)
- Physical Sciences (34 - 85)
- Social Sciences (86 - 135)
- Arts & Literature (136 - 153)
- Sargent College & Public Health (154 - 164)
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Megan Blagden
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Lisa Brontesi
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**Meera Kumanan**

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