

# 2019 NSF Research Experience for Undergraduates



Indiana University-Purdue University Indianapolis (IUPUI)

To apply & learn more:  
[math.iupui.edu/reu](http://math.iupui.edu/reu)

## PROGRAM DETAILS:

Student participants will conduct applied mathematics research for 7 weeks (June 17 to August 2, 2019) at IUPUI with faculty advisors.  
*Apply by February 8, 2019.*

Participants in the program will receive:

- **\$4000** research stipend
- **\$450** travel expenses
- Apartment housing & meal allowance

Contact: Dr. Julia Arciero  
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## APPLIED MATH PROJECTS:

- ✓ Modeling treatment strategies for heart transplant patients (Advisor: Dr. Julia Arciero)
- ✓ Modeling cancer cell motion (Advisor: Dr. Jared Barber)
- ✓ Modeling influence of addictive drugs on the brain (Advisor: Dr. Alexey Kuznetsov)
- ✓ Computational modeling of cellular-level tissue dynamics (Advisor: Dr. Andres Tovar)
- ✓ Implementation of advanced topology optimization methods (Advisor: Dr. Andres Tovar)



**IUPUI SCHOOL OF SCIENCE**  
Department of Mathematical Sciences

This program is supported by the Division of Mathematical Sciences (DMS) in the Directorate for Mathematical and Physical Sciences (MPS) and the Division of Biological Infrastructure (DBI) in the Directorate for Biological Sciences (BIO) at the National Science Foundation (NSF)

