



# UNDERGRADUATE RESEARCH AMBASSADORS



Undergraduate Research  
Ambassadors

# ACADEMIC ENGAGEMENT AND STUDENT SUPPORT PROGRAMS

GT1000 & GT2000

PROJECT ONE

STUDENT INNOVATION

LIVING LEARNING  
COMMUNITIES

**UNDERGRADUATE RESEARCH  
OPPORTUNITIES PROGRAM**



# INTRODUCTION



**William York**

wyork8@gatech.edu

Biomedical Engineering

Minor in Pre-Health & Research option

Mediating MSC exosome production using  
Bacterial Sphingomyelinase in PEG-MAL  
hydrogels



**Kent Yamamoto**

kyamamoto31@gatech.edu

Biomedical Engineering

Minor in Pre-Health & Robotics

Neuroendoscopic surgical robot design and  
pre-clinical evaluation with neurosurgeon  
collaborators

# WHO ARE WE?

## Purpose

- To help students find research opportunities, improve communication skills, & gain access to valuable resources for undergraduate research
- To communicate that research is for everyone & anyone
- To encourage multidisciplinary work and involvement

## URA Website

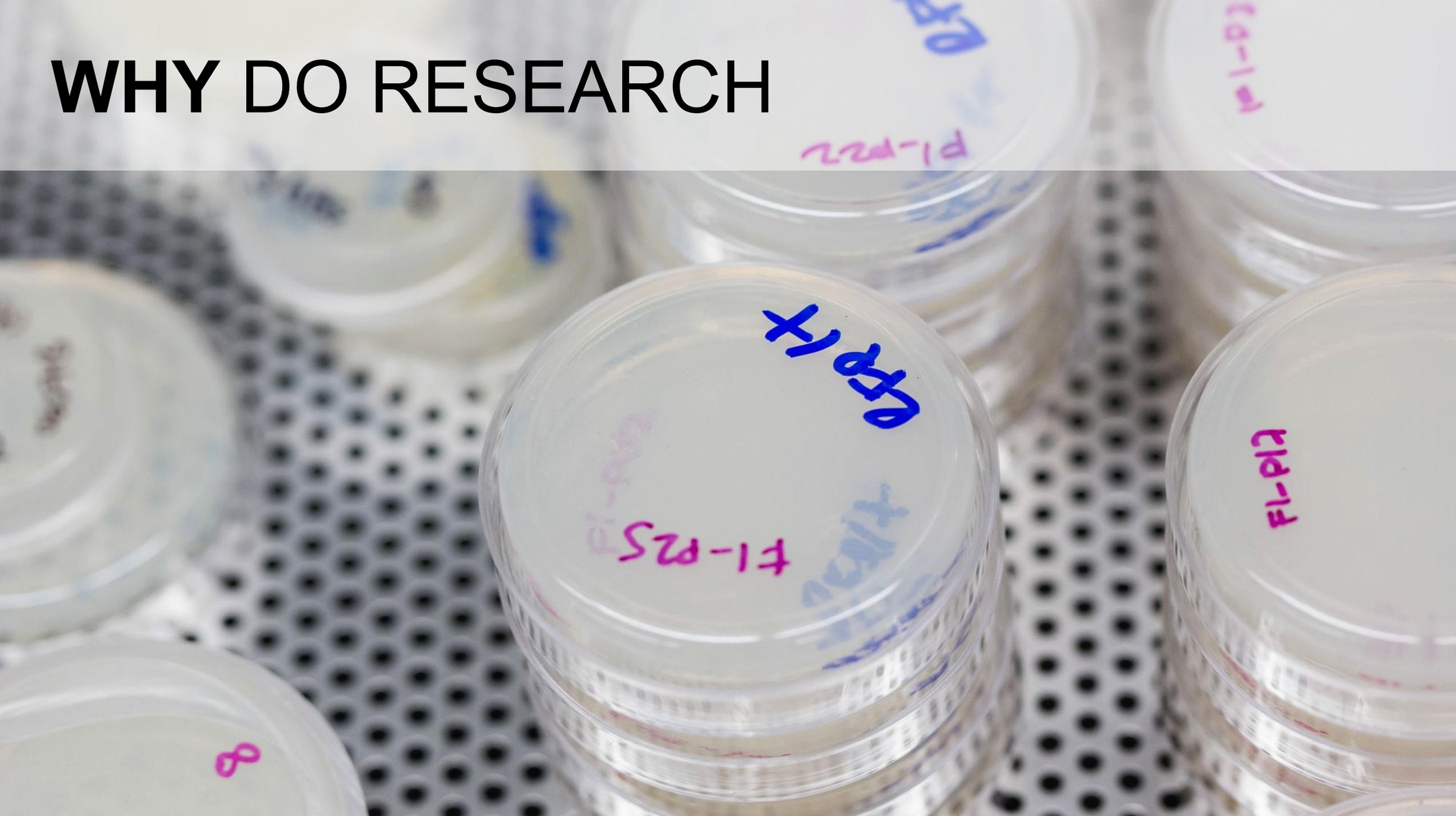
<http://uop.gatech.edu/content/undergraduate-research-ambassadors>

# WHAT IS RESEARCH?

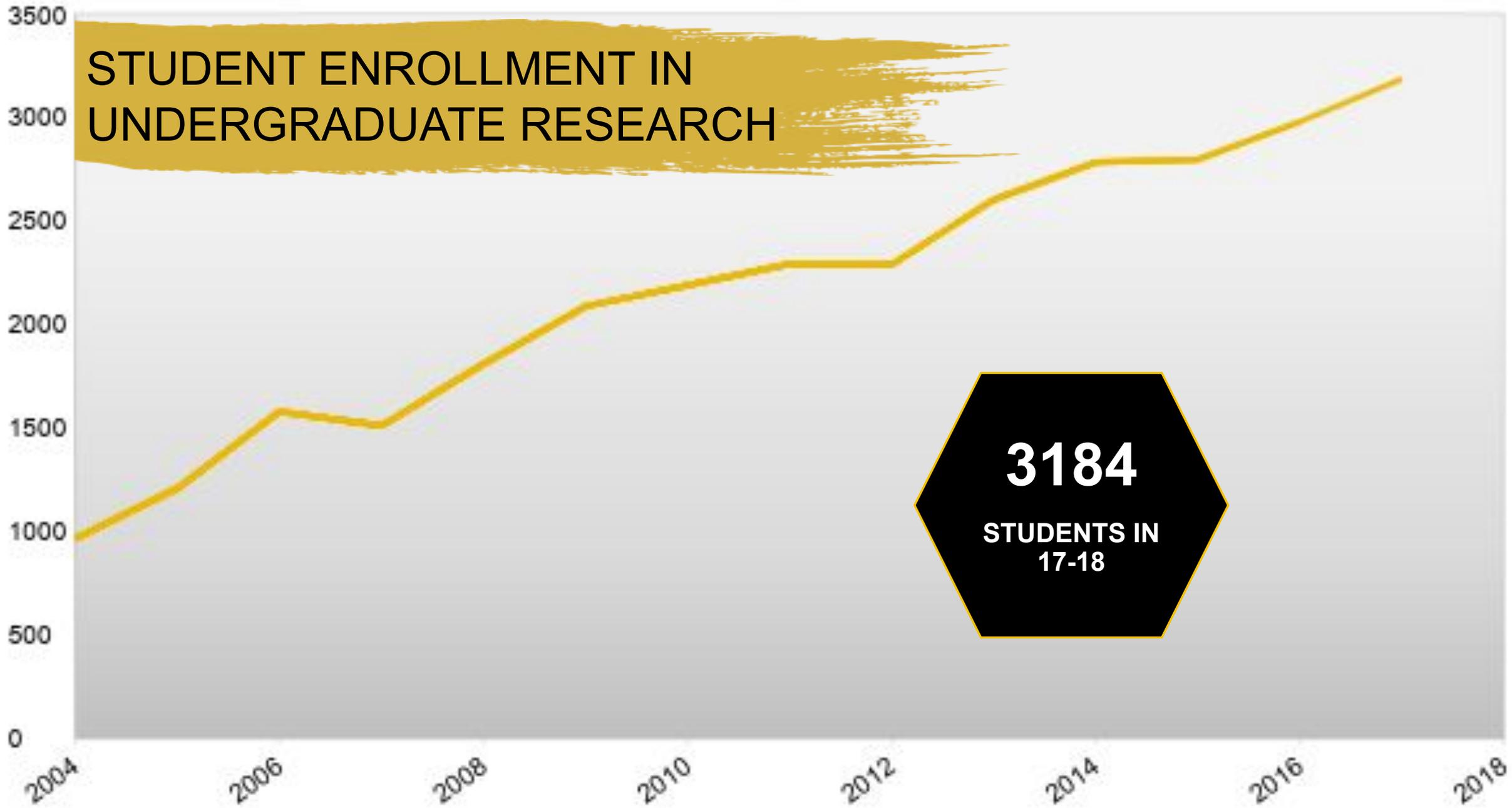


Original Knowledge Discovery Academia  
Skill sets Advancing Network Collaborative  
Innovative Communicative  
Creative Inclusive Observation  
Contributive Collective  
Analyzing Peer-reviewed

# WHY DO RESEARCH



# STUDENT ENROLLMENT IN UNDERGRADUATE RESEARCH



**3184**

**STUDENTS IN  
17-18**

# HOW TO GET INVOLVED

- **URA OFFICE HOURS**  
Offered virtually every day  
(sign up our website!)
- **URA PROGRAMS &  
UROG GRANTS**
- **STUDENT NETWORKING**  
Professors, classes, advisors,  
etc.



# RESEARCH CLASSES

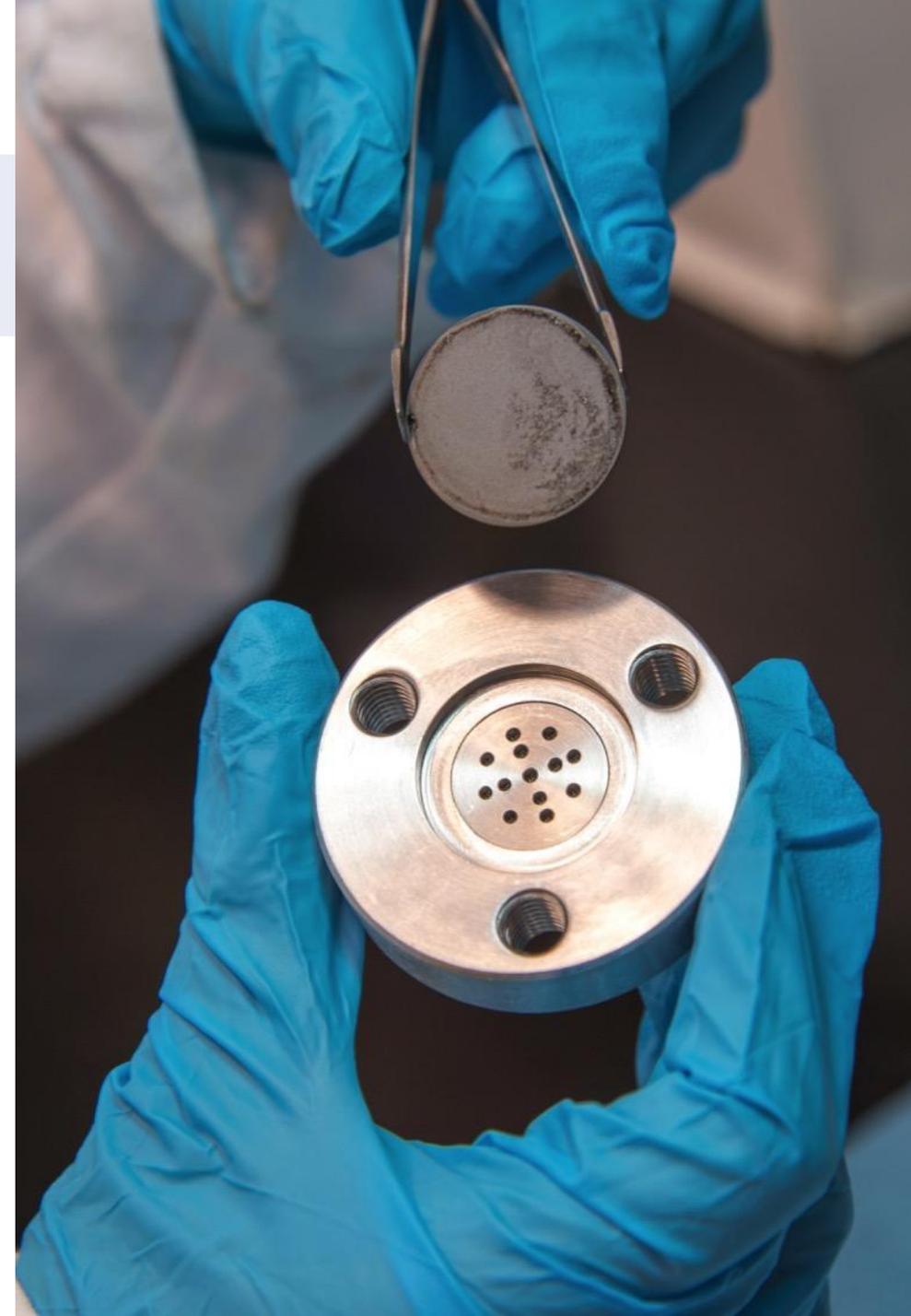
## > RESEARCH FOR CREDIT

2699 / 4699

## > RESEARCH FOR PAY

Research Assistantship  
(free audit class)

2698 / 4698



# RESEARCH OPTION

## > REQUIREMENTS

- Research proposal / thesis
- Minimum 9 hours research
- Proposal & thesis writing courses (LMC 4701, LMC 4702)
- Available in 5 colleges and 24 majors



# RESEARCH FUNDING

## > **PURA SALARY AWARDS**

Stipend for semester research project – \$1,500

## > **PURA TRAVEL AWARDS**

Up to \$1,000 to present at a professional conference



# EVENTS

- **URA & UROP RESEARCH FAIR**  
Fall & Spring Undergraduate Research Fair
- **UROP SYMPOSIUM**  
Annual Undergraduate Research Spring Symposium
- **GT1000**  
Undergraduate Research & Innovation
- **URA WORKSHOPS**  
What to Expect in Research, Summer Research Opportunities, Pre-Health & Pre-Grad Coffee Hour, How to Communicate Your Research
- **UROP WORKSHOPS**  
PURA Proposal Workshop, Direct Connections Panel, Panels, etc.



# UNDERGRADUATE RESEARCH AMBASSADORS

- > **LEAD**  
Develop workshops and information sessions to present on undergraduate research
- > **MENTOR**  
Mentor students to get more involved through Office Hours, the UROP website, and student networks
- > **Office Hours**  
Help students be connected with research opportunities and be involved in undergraduate research



# URA EVENTS

**RESEARCH COFFEE HOUR  
PRE-HEALTH & PRE-GRAD**

Date: 10/08/2020  
Time: 11AM-12PM



**RESEARCH AMBASSADOR APPLICATIONS ARE OPEN!**

**APPLY NOW!**



# BENEFITS OF RESEARCH IN PRE-HEALTH

## > **Networking**

Research can connect you to academic professionals, graduate students, and other undergraduates who can assist you with graduate/medical school applications or career building

## > **Skills**

Develop a competitive skill set that helps you grow as a scientist and can be mentioned in applications and interviews

## > **Interests**

Undergraduate research can help you refine your interests if you plan on pursuing a career in health-related academia (epidemiology, bioinformatics, etc.)

# RESEARCH PROGRAMS IN **MEDICINE**

## > **Medical School (M.D.)**

Most medical schools encourage at least 1 year of research during medical school

## > **Medical school (M.D. / Ph.D)**

Requires at least 3 years of medical research to receive Ph.D

## > **Advisors**

Feel free to schedule an appointment with the pre-health advisors to get more information about research in other medical degrees!

# TYPES OF RESEARCH IN MEDICINE

## > **Experimental Research**

Animal study, Cell study, Biochemistry, Genetic engineering, Material development, Pharmacogenetics, Methods development

## > **Clinical Research**

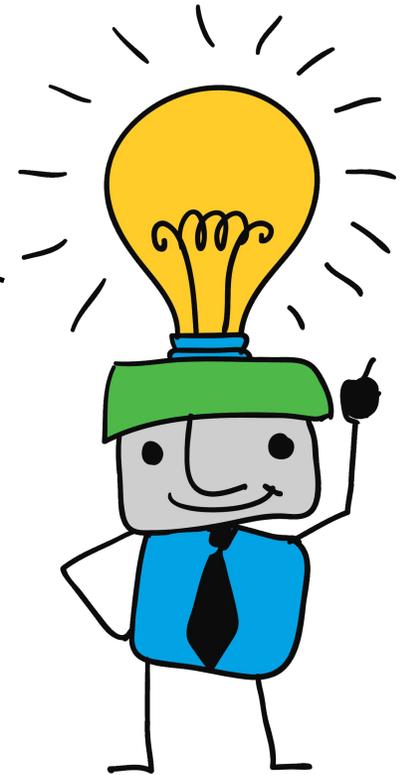
Interventional/Clinical trials, Observational studies (case reports, diagnostic studies, prognostic studies, therapy studies)

## > **Epidemiological Research**

Surveillance (monitoring), Ecological, Cohort studies, Analyses with registry data, Ecological studies, Sociological research

# SKILLS TO GAIN FROM RESEARCH

- **Teamwork**  
Work collaboratively with others to achieve shared goals
- **Oral Communication**  
Effectively conveys information to others in an understandable manner
- **Reliability and Dependability**  
Consistently fulfills obligations in a timely and satisfactory manner
- **Capacity for Improvement**  
Continuously improve your knowledge of skills and concepts
- **Critical Thinking and Scientific Inquiry**  
Integrate and synthesize information using the scientific process



**FIND MORE  
ONLINE**

**UROP.GATECH.EDU**

 **Undergraduate Research  
Ambassadors**

**FACEBOOK**

 **Georgia Tech Undergraduate  
Research Ambassadors**

**INSTAGRAM**

 **@GT\_URA**

# NEED HELP? COME TO OFFICE HOURS!

## > **Contacting Faculty & Labs**

Help with writing emails and applications for undergraduate research

## > **Interested in joining a lab?**

Come talk to us! We have some opportunities for undergraduate research!

## > **Writing**

Help with writing research proposals, grants, and/or academic papers



# INTERESTED IN UNDERGRADUATE RESEARCH?



> > > > **JOIN THE UROP  
MAILING LIST**

Be the first to hear  
about research  
opportunities, program  
deadlines, and more.

TEXT **UROP** TO **42828**

OR VISIT **[goo.gl/Wpt6ms](https://goo.gl/Wpt6ms)**

