



# 2020 URGO Summer Research

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# Undergraduate Research and Graduate Opportunity

I. Undergraduate Research

II. Graduate School Advising

III. Pre-Health Sciences Advising

IV. Nationally-Competitive Fellowships



# URGO Staff

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Undergraduate Research,  
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Director



# Research and Creative Activity

- Projects can be done in any field.
- Must be within faculty's line of research or area of expertise.
- Research produces knowledge, a product, or an outcome that makes an original contribution to its discipline.
- Creative activity proposals show how their creative project depends on research, and explain how the research will enhance and deepen the creative activity.



# URGO Summer Research Options

## SUMMER RESEARCH PROGRAM

- 200 or 400 hours over 11 weeks
- May 14<sup>th</sup> – July 29<sup>th</sup>
- Full-time = \$4,400 + housing stipend
- Half-time = \$2,200 + housing stipend
- Design project with a faculty mentor
- Final written product, oral and poster presentations
- Seminars and Speaker Series for support and professional development

## RESEARCH ASSISTANTSHIP

- 100 hours over course of summer
- Complete by August 31<sup>st</sup>
- \$1,100
- Assisting faculty with research tasks



# Eligibility

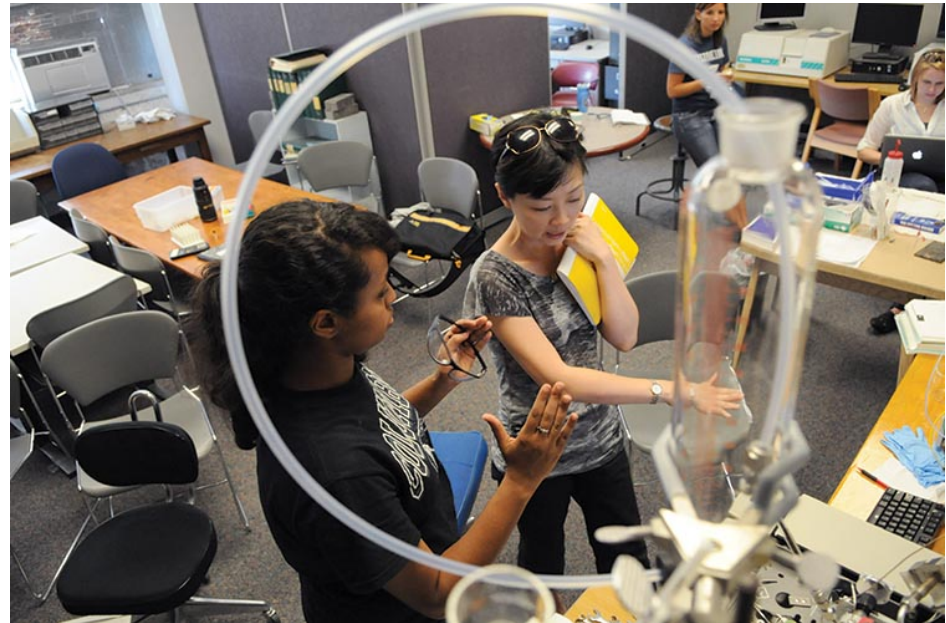
- Be a full-time Augsburg undergraduate student (currently taking at least 12 credits per semester)
- Have completed at least one year of undergraduate study by the start of research, and have at least one semester of full-time study (at least 12 credits) remaining after the completion of summer research
- Have a minimum GPA of 3.0 (lower GPAs considered on a case-by-case basis)
- NOT have participated in URGO 200 or 400 hours previously
- For 400-hour researchers: Must be present for 10 out of 11 weeks for research program (can take 5 days off)
- For 400-hour researchers: Must be present July 27<sup>th</sup> – 29<sup>th</sup> for presentations and celebration luncheon

# First Step: Read the Information Packet and Application Forms

available at [augsburg.edu/urgo](http://augsburg.edu/urgo)

# Finding a Faculty Mentor

- Talk to faculty you've had class with
- Talk to several faculty in your major, minor or related department
- Consider how you could fit into their ongoing research work
- Not all faculty will be here in the summer







# Talking with faculty

- Visit office hours or email faculty to find a time to meet before winter break.
- Ask them what research they are currently working on, and if none, ask what their past research interests were.
- Ask if they are willing to mentor a summer researcher.
- Indicate if you are looking for 400 hours or are open to part time.
- Tell them why you are interested in research and a bit about your background (GPA, courses you've taken, relevant experience).
- If they want you to come up with your own research idea, ask them to help you develop a question and research plan.

# Application Timeline

- Application and Information Packet available on URGO website ([www.augsburg.edu/urgo](http://www.augsburg.edu/urgo)).
- **Before winter break:** Make plan with faculty about what to work on in preparation for application (reading articles, writing essays, filling out application, etc.)
- **During winter break:** Work on both application components (Phase 1 and Phase 2). You will need to have multiple revisions with the advice and input of your faculty mentor.
- **February 5<sup>th</sup>:** Turn in Phase 1 app *signed by faculty mentor* (can be electronic signature and emailed). No late applications considered.
- **February 19<sup>th</sup>:** Faculty turn in Phase 2 by email to URGO.
- Notification is typically before Spring Break.



# Phase 1 Application Components

- **Submit by February 5<sup>th</sup> at 11:59pm (URGO office closes at 5pm).**
- Non-evaluative (intent to apply)
- Without Phase 1, ineligible for Phase 2
- Narrow research question or brief description of creative activity
- Signed by faculty (can be electronic)

# Phase 2 Application Components

- Submitted by faculty by February 19<sup>th</sup> at 11:59pm.
- Biographical Information
- Student/faculty availability
- Research/Creative Activity Proposal
  - question or description*
  - background*
  - method*
  - timeline*
  - final products*
- Student essays
- Faculty recommendation

# Application Tips

# Crafting a research question

- Might have a topic or two variables in mind (income and crime)
- Read academic articles and talk with your faculty to turn this in to an answerable question

Try this exercise:

1. Topic: I am studying \_\_\_\_\_
2. Question: because I want to find out what/why/how \_\_\_\_\_
3. Significance: in order to help my reader understand \_\_\_\_\_

Taken from *The Craft of Research* by Booth, Colomb, and Williams (pg. 51)



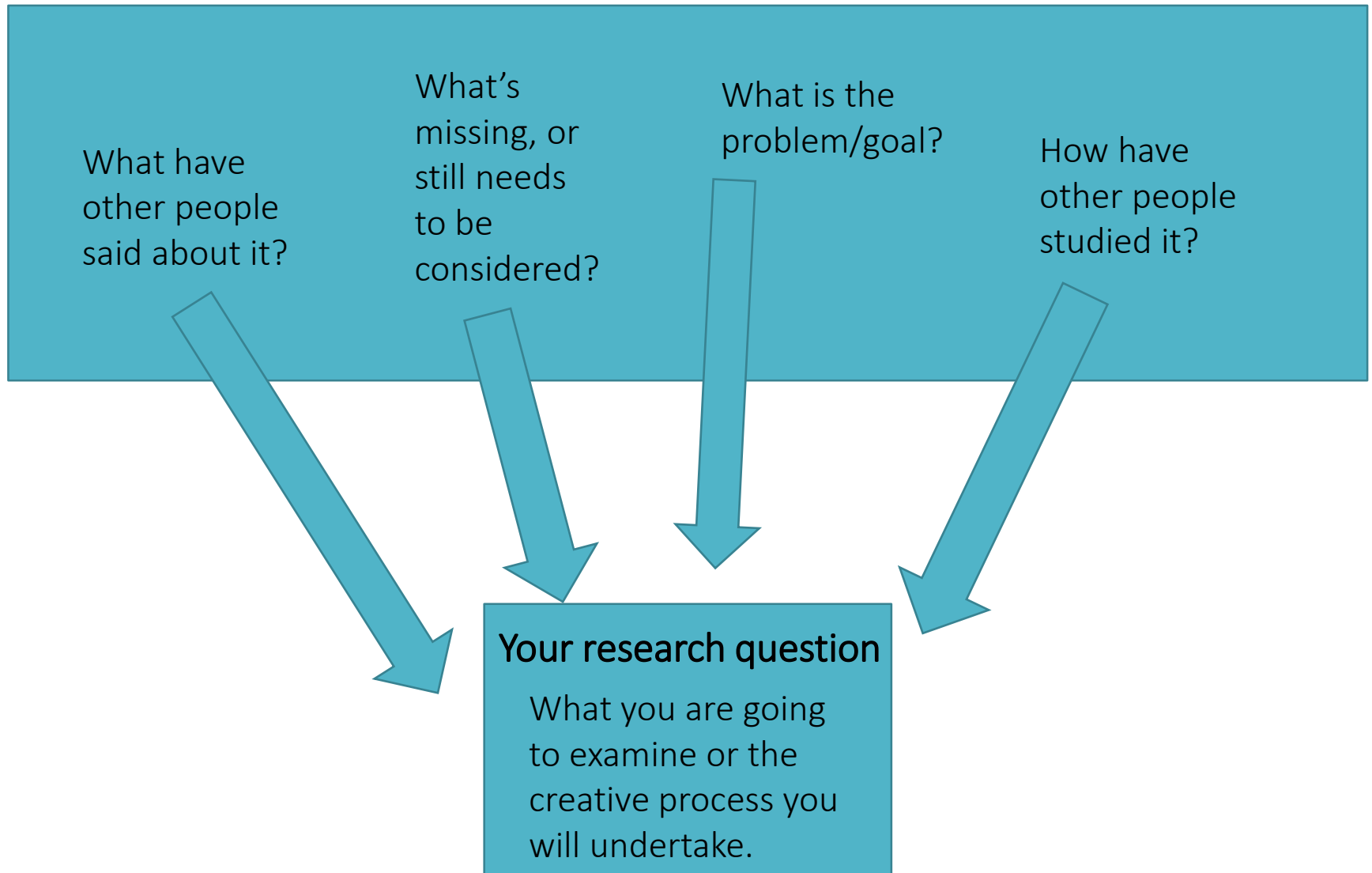
# Research Question

- Should not be too broad (e.g. differences in communication patterns between men and women)
- Should not have been answered already (e.g. Is yoga good for mental health?)
- You must have the skills and methodological plan to thoroughly answer the question in 10 weeks
- Should not be a biased question (e.g. How does heavy metal music make people violent?)

*be open to what the data will tell you*



# Background/Lit Review







# Methods

- Your method(s) must help you answer your question.
- Explain why you chose that method(s).
- Explain the method using non-technical language.
- What are the limitations of your method?
- Provide sufficient detail (e.g. who you will sample, how will you find the sample, how you will distribute survey, what types of topics will you cover in your survey/interview, etc.).
- How will you analyze/synthesize your data? Why did you choose this method of analysis?



# Timeline

<b>Week</b>	<b>Research Goals &amp; Activities</b>
<b>1</b>	<p><i>*upon return from spring break: pilot test of running video and initial analysis of subjects to determine methods to measure hip range of motion.</i></p> <p>Start Literature review - visit to U of M library 1 Day URGO Meeting</p> <p>Test equipment and marker placement for subjects. Implement changes from pilot testing, if necessary</p>
<b>2</b>	<p>Recruit potential participants (daily via A-mail) Contact participants that select they want to participate in testing to schedule meeting dates for biomechanical testing 1 Day URGO Meeting Conduct FMS and biomechanical testing</p>
<b>3</b>	<p>Analyze videos with Dartfish Enter data on Excel Spreadsheet Send Literature Review to Dr. Ribeiro for feedback 1 Day URGO Meeting Repeat daily A-mail message Contact participants that select they want to participate in testing to schedule meeting dates for biomechanical testing Conduct FMS and biomechanical testing</p>



# Final Product

- Products vary by discipline and project
- **All projects will have some component of professional/analytical writing as defined by the field.**
- Other products include: Lab protocols, short stories, film scripts, poetry, musical compositions, performances, objects of art, etc.
- Should go through many revisions and be of higher quality and more substantial than classroom products
- Resume/CV

# Final Presentation

- URGO Summer Research Symposium (oral)
- Zyzzogeton (poster)
- Specify other public forums at which you could present your research.
- Can be presentations at regional or national conferences, or in classrooms or the community

# Essays

- Answer the writing prompts (questions)
- Meet minimum length requirements (includes prompts)
- Research interests
- Preparation: What experiences have prepared you to succeed in research? Think of the skills you will need to carry out your project.
- Educational and Career Goals: How does research fit your goals?
- Ensure that you can complete multiple drafts with feedback from your faculty mentor and other resources.



## See URGO Summer Research Selection Committee members for advice on your proposal

- Make an appointment with the faculty member on the committee who is closest to your discipline. The list of committee members is in the information packet.
- Ideally, you and your mentor meet with the faculty committee member at any point in the process – the earlier the better!



Spread your risk: Apply for off-campus summer research or other opportunities