



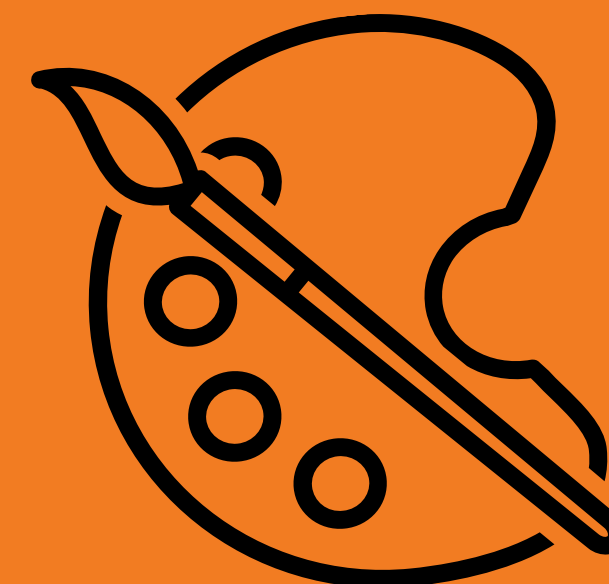
RESEARCH
COLLEGE OF ARTS AND SCIENCES



OSU Research is for

YOU

Getting Started in Research
and Creative Activity



Roadmap to Research

1. Learn about Undergraduate Research

2. Find Research Topics that Interest You

3. Learn about Research Programs and Opportunities

4. Find & Reach out to Potential Mentors

5. Look into CAS Resources and FAQ

6. Start Your Research Journey!



1. Learn about Undergraduate Research



What is Undergraduate Research?



“

**Research
is a verb!**

**Go seek!
Go look!
Go explore!**

”



Dr. Merle Massie, Author/Historian,
Coordinator of Undergraduate Research Initiatives, University of Saskatchewan

“Research is formalized curiosity. It is poking and prying with a purpose.”

Zora Neale Hurston



Renowned anthropologist, author, filmmaker

What student researchers actually DO?

Read



Explore



Make Observations



Gather



Work in a Lab



Work in the Field



...and so much more!

Research Environment



you!

Undergraduate
research assistants



mentor

Faculty / professor
The PI
Advisor



others

Graduate students
Post-docs
Staff scientists



2. Find Research Topics that Interest You

What Research Topics Interest You?



What Excites You?

**What are your skills?
What do you find
enjoyment in?**

**What courses or
topics do you find
interesting?**

**What do you do in
your free time?**

**What do you like to
read or learn about?**

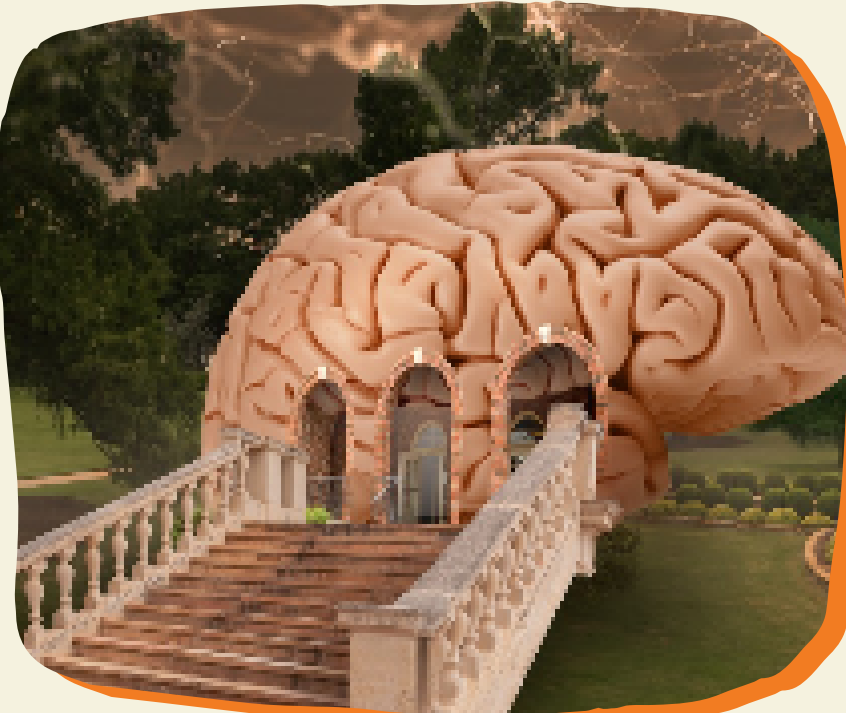


Use those questions to explore CAS options...

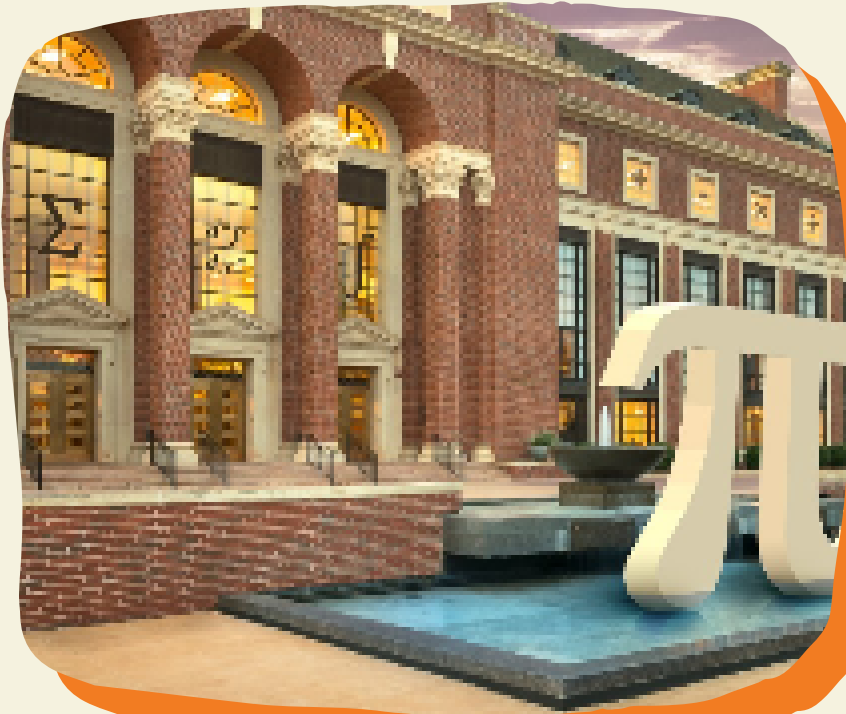
Arts and Humanities



Social Sciences



Math and Sciences



Interdisciplinary Programs



Real OSU undergraduate projects, and so many more

Identifying microbes in animal gut biomes

Bio-inspired design of underwater drones

Linking mathematics and music

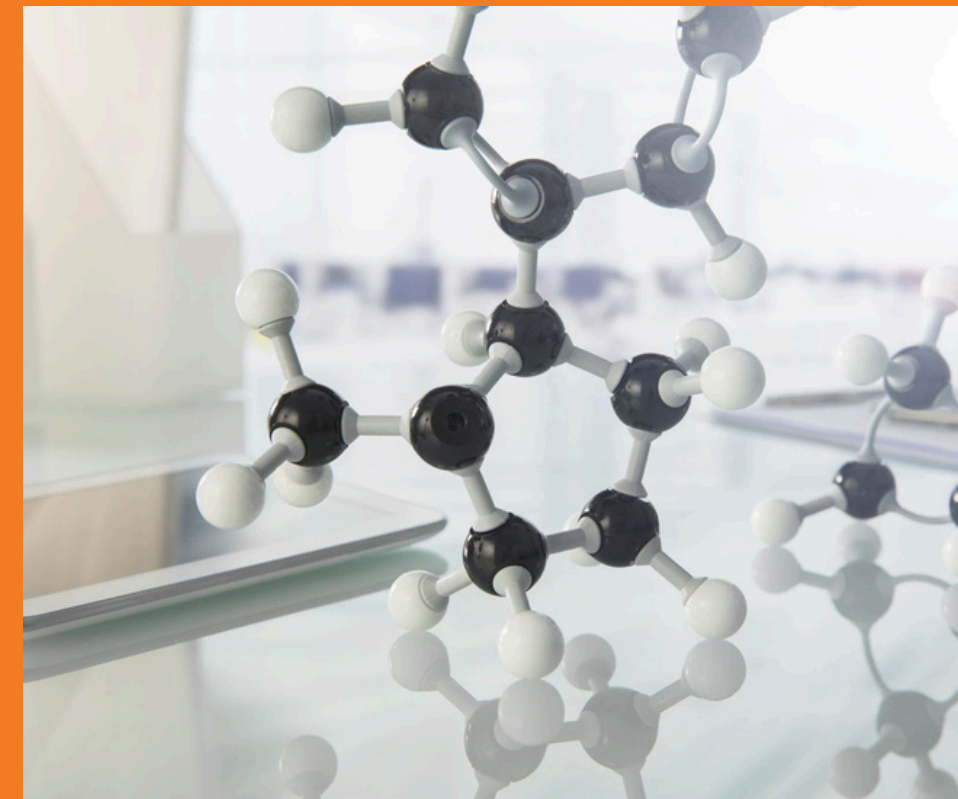
Augmented reality in retail clothing world

Psychology of jealousy in friendship

Business linguistics in companies

3-D printing for sign language instruction

Social media marketing for art performances



Student Researchers Will Benefit in...

**Learning beyond
the classroom**

**Developing a
stronger community**



**Enhancing qualifications
for future jobs and
academic training**

**Discovering diverse
career paths**

**Clarifying and
completing academic
and career goals**

Research for Career Readiness

Skills developed via research experiences map to essential career-readiness competencies



A Position Paper: Recognizing Undergraduate Research, Scholarship, & Creative Inquiry as a Career-Readiness Tool

- **Equality and inclusion**
- **Leadership**
- **Communication**
- **Professionalism**
- **Career Development**
- **Teamwork**
- **Creativity**
- **Technology**

Additional Benefits

OSU & Personal Benefits

Depending on your choice of program...

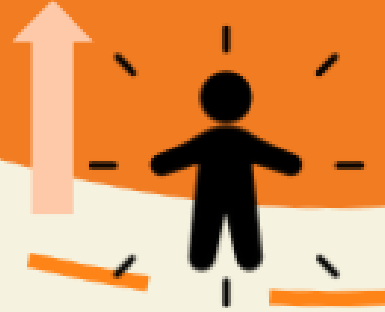
- Paid!
- Counts towards OSU Credits
- Could include travel!



Building Your Resume!

- Job Experience
- Research Experience
- Professional Reference
- Letters of Recommendation

3. Learn about Research Programs and Opportunities



Research Programs and Opportunities



OSU Research Opportunities

Undergraduate Research Transcript Designation

- Notation on your transcript
- 2 (or more) semesters of research with a mentor
- Must present or publish your work outside of OSU



OK-LSAMP

- Louis Stokes Alliance for Minority Participation
- STEM focused
- Research experiences, grad school preparation
- Stipend

McNair Scholars

- Mentoring and resource program for undergraduates
- Preparation for PhD programs, specifically
- Research and scholarly training activities
- Stipend

AURCA Program

- AURCA (rhymes with "orca")
- Advancing Undergraduate Research & Creative Activity
- **Work-study** research/creative assistant
- Pays \$12.00 per hour!
- Mentored by a faculty member
- Applications open in late spring for 2025–2026 school year
- https://cas.okstate.edu/workshops/aurca_program/aurca_students.html


AURCA Program

The Advancing Undergraduate Research and Creative Activity (AURCA) program provides expands access to paid research opportunities for undergraduates in the OSU College of Arts and Sciences.

 okstate.edu / Apr 26, 2022


Non-OSU Research Opportunities


- National Science Foundation's REUs
- Council on Undergraduate Research
- Pathways to Science
- American Physiological Association's "Undergraduate Opps & internships" page
- Search: [insert your interest] summer research"
- Broad listing hosted by other institutions



Search REU Sites

NSF's mission is to advance the progress of science, a mission accomplished by funding proposals for research and education made by scientists,...


 NSF



Council on Undergraduate Research

Join Give News myCUR

Who We Are What We Do Impact Engage



Home Engage Undergraduate Resources Internship and Research Opportunities

Engage **Internship and Research Opportunities**



www.pathwaystoscience.org

Education and career training opportunities in Science, Technology, Engineering & Mathematics (STEM)

SEARCH for a program . . . find your future!

Home K-12 Undergrads Grad Students Postdocs Faculty & Admin Sign up! Donat

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About us

For Undergraduate Students

Programs and professional development resources for current and prospective undergraduate students -- research experiences for undergraduates (REU), scholarships, and travel and research opportunities.

STEM Programs

Membership Information

IBP Member

Learn About Membership
View a list of current members



Arts & Humanities | Undergraduate Research Experiences

There are many off-campus summer undergraduate research opportunities spanning most arts and...

 Pacific University / Dec 14, 2023

Types of Experiences and Programs:

Individual Research or Creative Assistant

1

Discipline

Any

\$

paid or volunteer

Structure

Arranged by student and mentor

Course Credit

No

Time

Flexable hours or duration

Competitive

Moderate; many professors looking, so go for it!

Types of Experiences and Programs:

2

Research Course

Discipline

Most

\$

Not Paid

Structure

**Find mentor; enroll in
course**

Course Credit

Yes

Time

**# of hours depends on #
of credits**

Competitive

Low

Types of Experiences and Programs:

3

Formalized Programs

Discipline

Common in *STEM*, including social sciences

\$

Stipend

Structure

Must apply; small cohort; research project plus extra training

Course Credit **Varies**

Time

Usually fulltime in summer; some part-time during school year

Competitive







High; apply to many to boost your chances!

Visit the CAS Undergraduate Research Site

Learn how to take the first steps to becoming a undergraduate researcher.



Quick-start Steps

 <p><u>Research Goals Planning</u></p> <p>Discuss your goals and opportunities with Dr. Rachael Eaton, the CAS Program Manager for Student Research.</p>	 <p><u>FAQs</u></p> <p>Quick answers for students interested in research or creative activity at OSU</p>	 <p><u>CAS Research Registration</u></p> <p>Students should register with CAS Research for news, updates, and opportunities</p>
 <p><u>Research Shadowing</u></p> <p>Get a first-hand look at the research experience alongside a Research Leader</p>	 <p><u>Workshops and Resources</u></p> <p>Attend a workshop and take the next steps toward reaching your goals!</p>	 <p><u>Share your Success</u></p> <p>We want to showcase your research and creative achievements.</p>





How to Find and Reach out to Potential Mentors



OSU Faculty Mentors

Find someone with interesting research.

OSU Department of Psychology UNIVERSITY LINKS [+]

Home People News Clinic Diversity Programs Resources Scholarships Support Us

Faculty

Clear All

All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Charles I. Abramson, Ph.D.
Regents Professor
 Lawrence L. Boger Professor of International Studies
 Boston University
charles.abramson@okstate.edu

Experimental Psychology Faculty

Comparative psychology. Studies include mathematical models of the learning process, influence of agrochemicals and metals on learning, development of a social insect model of ethanol induced behavior, molecular mechanisms of learning, development of inquiry-based science activities, comparative analysis of behavior.

If interested please contact Dr. Abramson.

• [Lab Website](#)

Angela Andrade, Ph.D.
Teaching Faculty
Teaching Assistant Professor
 Oklahoma State University

Current courses include Introductory Psychology, Statistical Methods in Psychology, and Psychology of Prejudice and Discrimination. Research interests: Social psychology, issues of social inequality based on race, class, gender, and sexual orientation. Recent publications appear in Cultural Diversity and Ethnic Minority Psychology, the Journal of Social Psychology, and Social Cognition.

Amanda Baraldi, Ph.D.
Associate Professor
 Arizona State University

baraldi@okstate.edu

Missing data analyses, methods for assessing mediation, longitudinal growth modeling, and health and prevention research. Recent publications appear in Psychological Methods, Multivariate Behavioral Research, and Appetite.

Will NOT be reviewing Fall 2024 applications.

Jarrold Bock, Ph.D.
Teaching Faculty
Visiting Assistant Professor
 Oklahoma State University

jarrold.bock@okstate.edu

I am currently teaching Social Psychology, Psychology of Learning, and Research Methods. My research broadly examines gender norms within cultures of honor, with a specific focus on how masculinity norms and features of honor cultures (e.g., firearm accessibility) impact mental health and suicide risk.

Jennifer Byrd-Craven, Ph.D.
Professor
 University of Missouri

jennifer.byrd.craven@okstate.edu

Psychobiology of the stress response including sex differences, developmental and life history factors, with a focus on female sociality as it relates to evolutionary psychology more broadly. Recent publications appear in Psychoneuroendocrinology, Physiology and Behavior, and Hormones & Behavior.

Will NOT be reviewing Fall 2024 applications.

• [Lab Website](#)

John M. Chaney, Ph.D.
Regents Professor
 University of Missouri

john.chaney@okstate.edu













Emotional adjustment in pediatric chronic illness populations, particularly juvenile rheumatic diseases and inflammatory bowel disease.

Will NOT be reviewing Fall 2024 applications.

• [Lab Website](#)













DEPARTMENT OF CHEMISTRY FACULTY

Current Faculty

 Dr. Frank Blum Regents Professor	 Dr. Jeanne Bolliger Assistant Professor	 Dr. Richard Bunce Regents Professor	 Dr. Gabriel Cook Assistant Professor
 Dr. Ziad El Rassi Regents Professor	 Dr. Christopher Fennell Interim Department Chair/Assoc Professor	 Dr. Tracy Kerr Teaching Assistant Professor	 Dr. Sadagopan Krishnan Professor
 Dr. Reza Latifi Teaching Assistant Professor	 Dr. Barry Lavine Regents Professor	 Dr. Nicholas Materer Professor	 Dr. Martin McCullagh Associate Professor

COMPUTER SCIENCE FACULTY & STAFF

Faculty

 Roger Mailler Department Head 220 MSCS 405-744-5683 roger.mailler@okstate.edu	 H B Acharya Assistant Professor 210 MSCS 405-744-2606 hbhatta@okstate.edu	 Sadiq Al Buhamood Teaching Assistant Professor 228 MSCS 405-744-9872 albuham@okstate.edu	 Arunkumar Bagavathi Assistant Professor 215 MSCS 405-744-5674 abagava@okstate.edu Professional Homepage
 Rekha Bhowmik Visiting Assistant Professor 324 North Hall - OSU Tulsa 918-594-8441 rekha.bhowmik@okstate.edu	 J. Cecil Professor 231 MSCS 405-744-5675 j.cecil@okstate.edu Professional Homepage	 Richard L Churchill Adjunct Instructor 232 MSCS 405-744-5676 richard.l.churchill@okstate.edu	 Christopher Crick Associate Professor 213 MSCS 405-744-5673 chriscrick@cs.okstate.edu Professional Homepage
 H. K. Dai Associate Professor 209 MSCS 405-744-7207 dai@cs.okstate.edu Professional Homepage	 K. M. George Professor 510 MSCS 405-744-5221 kmg@cs.okstate.edu	 Douglas Heisterkamp Associate Professor/Graduate Coordinator 207 MSCS - OSU Stillwater 918-200-9377 321 N Hall - OSU Tulsa 918-594-8577 doug@cs.okstate.edu Professional Homepage	 Sharmin Jahan Assistant Professor 208 MSCS 405-744-3705 sharmin.jahan@okstate.edu Professional Homepage

Search News, Websites, Articles, and Social Media

CAS Faculty Spotlights



[Dr. John Doyle](#)
Department of Mathematics



[Dr. Antonio Castilla](#)
Department of Plant Biology,
Ecology and Evolution



[Jason Estala](#)
Department of Theatre



[Dr. Saber Brasher](#)
Department of Geography



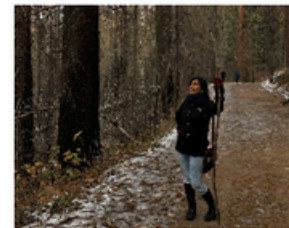
[Dr. Tony Thornton](#)
Greenwood School of Music



[Dr. Spencer Pitre](#)
Department of Chemistry



[Dr. Kara Kerr](#)
Department of Psychology



[Dr. Rittika Shamsuddin](#)
Department of Computer Science



[Dr. Derek Meyers](#)
Department of Physics



[Dr. Lisa Hollenbach](#)
Department of English



[Dr. Juwon Hwang](#)
School of Media and Strategic
Communications



[Dr. Tracy Quan](#)
Boone Pickens School of Geology



[Dr. Liz McCullagh](#)
Department of Integrative
Biology



[Dr. Avi Mitra](#)
Department of Microbiology and
Molecular Genetics



[Dr. Erica Townsend-Bell](#)
Department of Political Science



[Dr. Heather Stewart](#)
Department of Philosophy

 Oklahoma State University
February 21 · 🌐

Saving lives at #okstate 🐾

Advancing the mission of One Health, the Oklahoma State College of Veterinary Medicine is using animal medical research to aid humans as well as continuing to advance animal health.

Learn more: <https://okla.st/49rQeO6>

#OrangelsTheAnswer | #WeAreLandGrant



NEWS.OKSTATE.EDU

Saving Lives: CVM researchers' efforts aim to assist both

Utilize the CAS
Faculty Spotlights!
and
experts.okstate.edu

NEWS

[VIEW ALL](#)



[CAS faculty awarded 2024 Excellence in Research Mentoring Award](#)

Apr 16



[OSU welcomes legislators, industry leaders to groundwater summit at Hamm Institute](#)

Apr 11



[Cowboy100 Gala celebrates OSU-owned, OSU-led businesses](#)

Apr 11



[A March to Remember: OSU ROTC cadets participate in annual Bataan Memorial Death March](#)

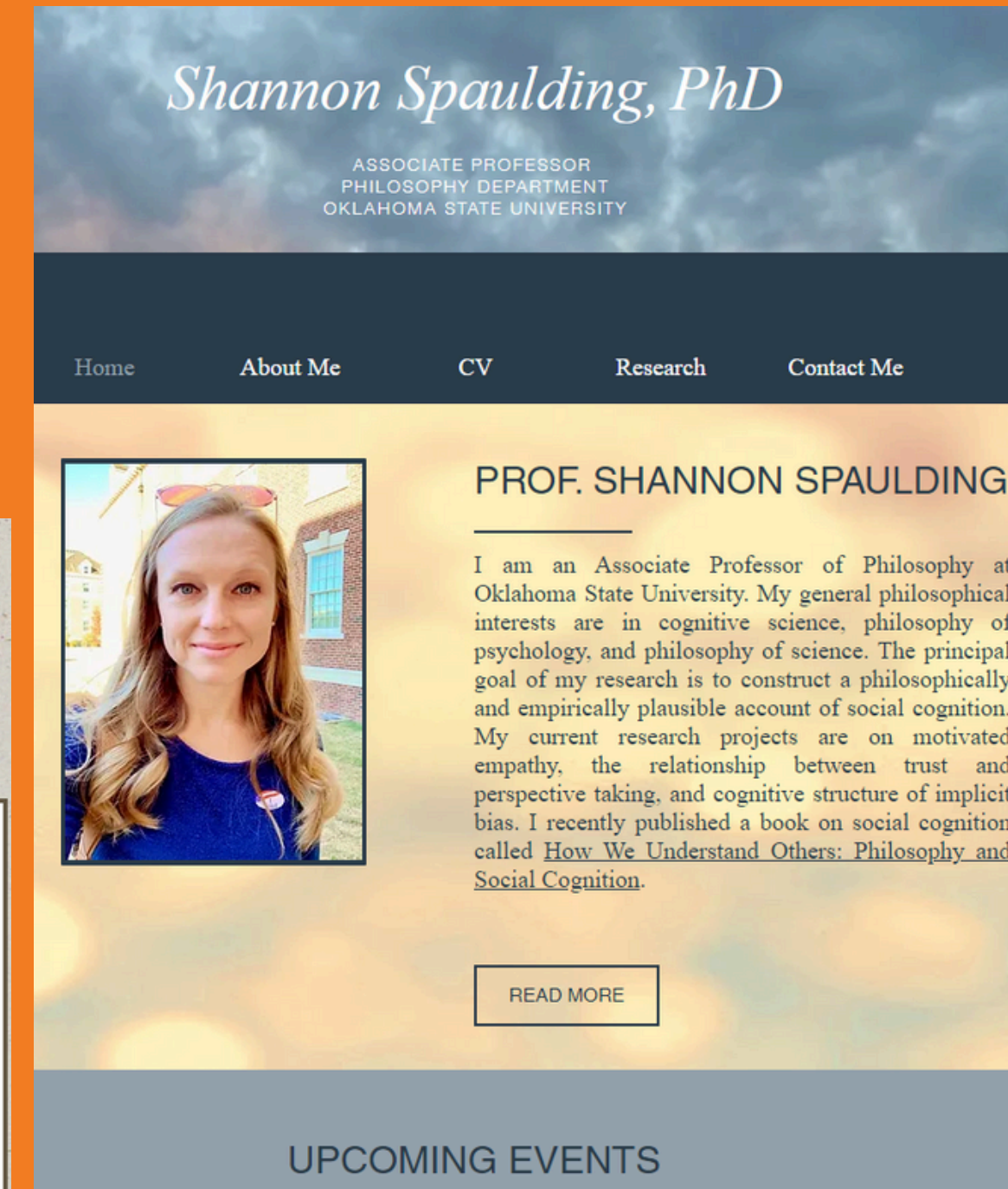
Apr 10

Look At Faculty Research Websites to Learn More About Their Work!



A faculty website for Rittika Shamsuddin, Assistant Professor. It features a portrait of her on the left, her name and title in large white text on a dark background with a circuit-like pattern on the right, and her email address below. Social media icons for Google Scholar, ResearchGate, LinkedIn, and Twitter are at the bottom.

RITTIKA SHAMSUDDIN
ASSISTANT PROFESSOR
r.shamsuddin at okstate.edu



A faculty website for Shannon Spaulding, PhD, Associate Professor in the Philosophy Department at Oklahoma State University. It features a portrait of her on the left and a bio on the right. A navigation menu is at the top, and a 'READ MORE' button is below the bio. An 'UPCOMING EVENTS' section is at the bottom.

Shannon Spaulding, PhD
ASSOCIATE PROFESSOR
PHILOSOPHY DEPARTMENT
OKLAHOMA STATE UNIVERSITY

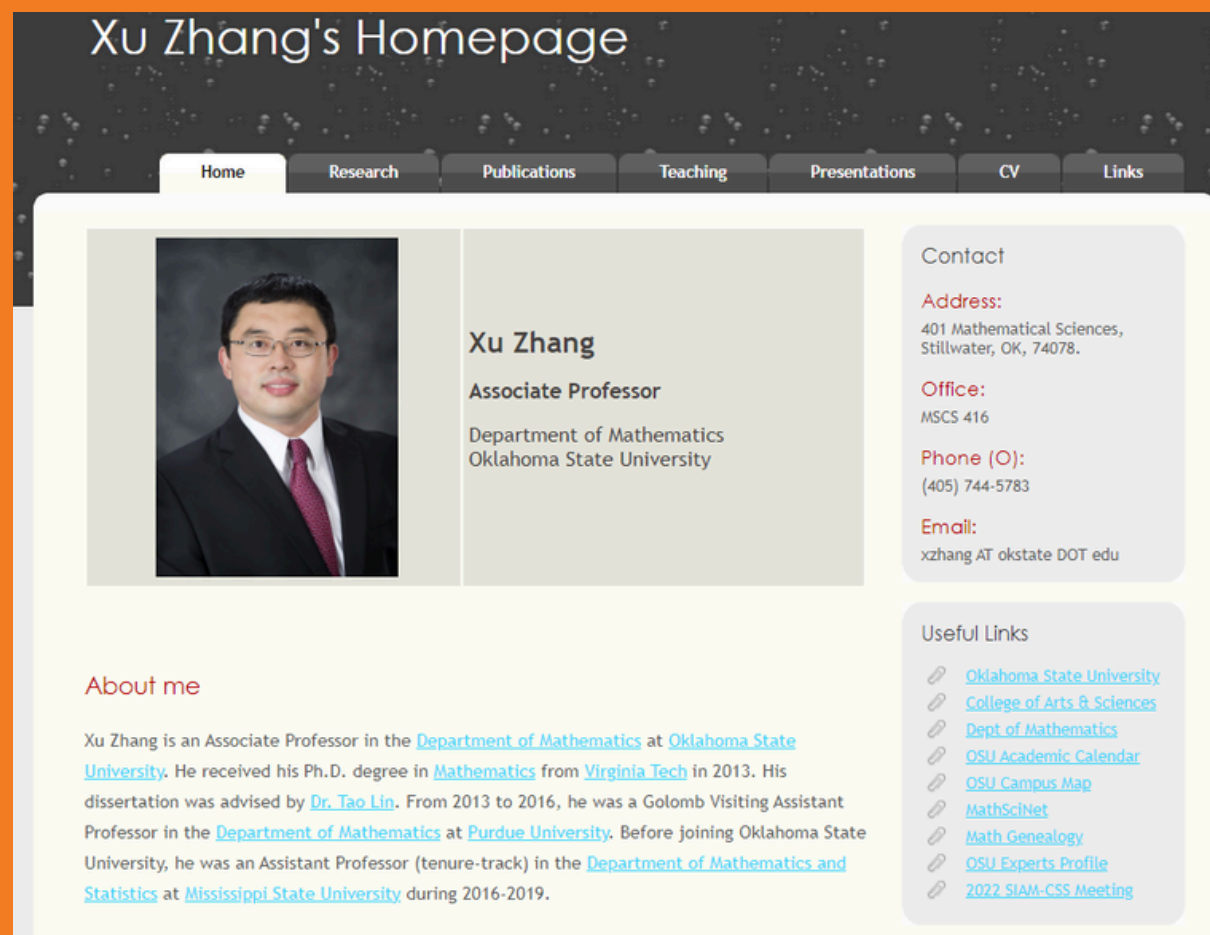
Home About Me CV Research Contact Me

PROF. SHANNON SPAULDING

I am an Associate Professor of Philosophy at Oklahoma State University. My general philosophical interests are in cognitive science, philosophy of psychology, and philosophy of science. The principal goal of my research is to construct a philosophically and empirically plausible account of social cognition. My current research projects are on motivated empathy, the relationship between trust and perspective taking, and cognitive structure of implicit bias. I recently published a book on social cognition called [How We Understand Others: Philosophy and Social Cognition](#).

READ MORE

UPCOMING EVENTS



A faculty website for Xu Zhang, Associate Professor in the Department of Mathematics at Oklahoma State University. It features a portrait of him, his name and title, and contact information. A navigation menu is at the top, and a 'Useful Links' section is at the bottom.

Xu Zhang's Homepage

Home Research Publications Teaching Presentations CV Links

Xu Zhang
Associate Professor
Department of Mathematics
Oklahoma State University

Contact
Address: 401 Mathematical Sciences, Stillwater, OK, 74078.
Office: MSCS 416
Phone (O): (405) 744-5783
Email: xzhang AT okstate DOT edu

Useful Links
[Oklahoma State University](#)
[College of Arts & Sciences](#)
[Dept. of Mathematics](#)
[OSU Academic Calendar](#)
[OSU Campus Map](#)
[MathSciNet](#)
[Math Genealogy](#)
[OSU Experts Profile](#)
[2022 SIAM-CSS Meeting](#)

About me
Xu Zhang is an Associate Professor in the [Department of Mathematics at Oklahoma State University](#). He received his Ph.D. degree in [Mathematics](#) from [Virginia Tech](#) in 2013. His dissertation was advised by [Dr. Tao Lin](#). From 2013 to 2016, he was a Golomb Visiting Assistant Professor in the [Department of Mathematics at Purdue University](#). Before joining Oklahoma State University, he was an Assistant Professor (tenure-track) in the [Department of Mathematics and Statistics at Mississippi State University](#) during 2016-2019.



A website for the Belden Laboratory in the Department of Zoology at Oklahoma State University. It features a title, a group photo of the laboratory group, and a description of their research in environmental toxicology.

Research in Environmental Toxicology

Belden Laboratory
Department of Zoology
Oklahoma State University

Our laboratory group is interested in exploring the effects of chemical contaminants on biota.

We focus on both the environmental fate and effects of contaminants with a strong emphasis on measuring exposure.

How To Pick a Mentor?

1. Read & Research

- Read their previous works
- Research their topics of study



2. Organize

- Write down key information about your potential mentor, so you can come back to that information



3. Rank

1. Dr. A - genetics...
2. Dr. B - mathematics...
3. Dr. C - psychology...

MAKE the first connection!

Email



Follow our email outline and tips on the next slides!

Office Hours



Find out when they happen and be there

After Class



If you have them as a professor or find out where they teach

GTA



Graduate Teaching Assistants do research with mentors

The First Email

From: awesomestudent@okstate.edu
**Subject: Undergraduate
research opportunities**

Dear Professor X,

My name is Awesome OSU Student, and I am a.... [first-year Zoology major]. I read about your project studying.... [bluebird nests in prairies], and I think your research seems really exciting [because.....]. I am interested in starting a research experience and I think your work fits well with my interests. I plan to be....[a conservation scientist in the future].

Could we set up a time to talk more about your research and potential opportunities in your group? I would be happy to come to your office hours or meet at a time that is open on your schedule. My schedule is mostly/usually open on....[Wednesday afternoons or Tuesday mornings].

Thank you for your time.

Sincerely,

Awesome OSU Student

Don't be afraid to send a second email!



Carrie Masiello @biogeochem · 11h



Truth:



Harmit S. Malik @HarmitMalik · 13h

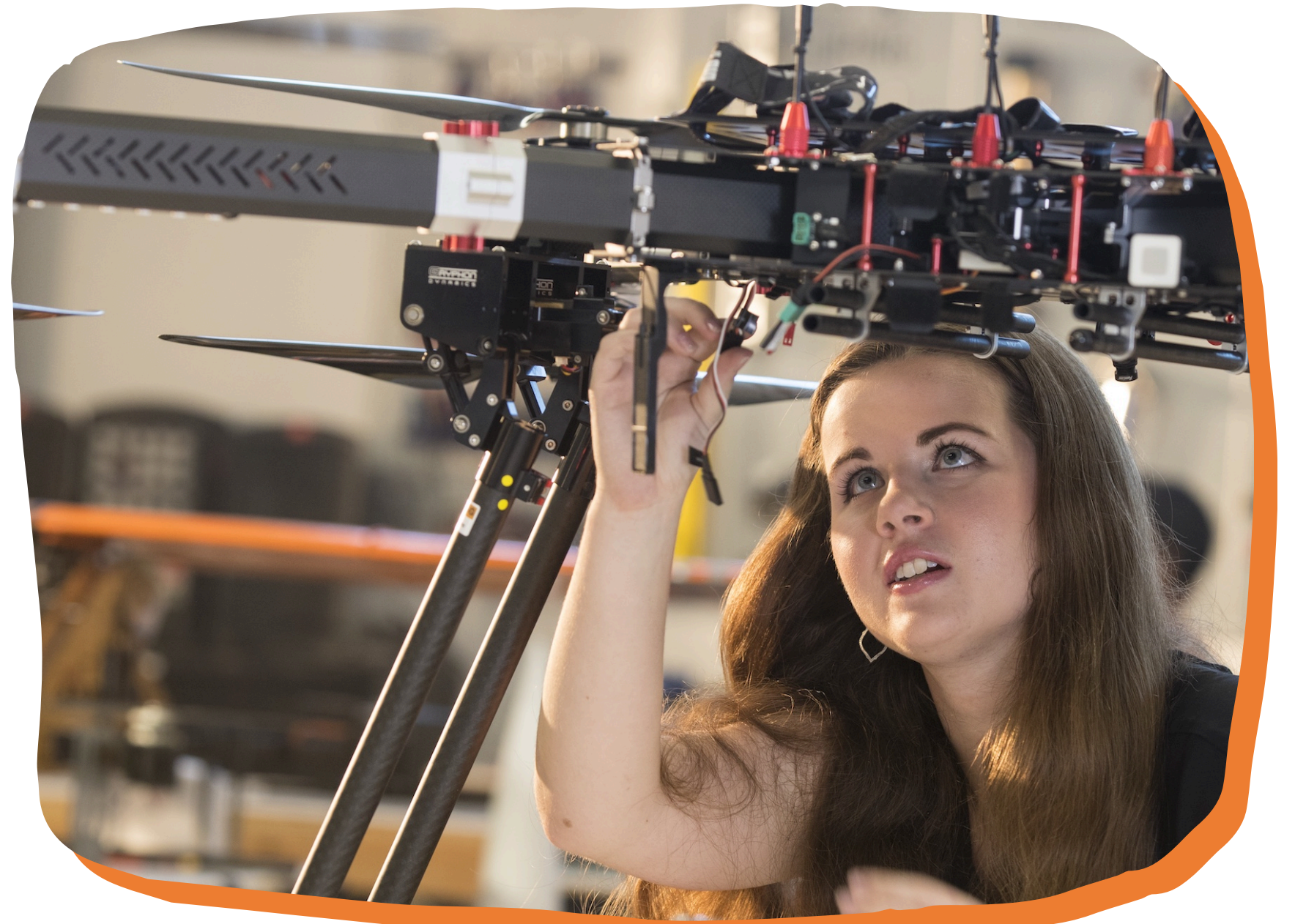
Dear trainees, two emails is not stalking. If you write to a PI requesting something and they don't get back to you within a reasonable time frame (say 1-2 weeks) please don't hesitate to contact them again. They may have meant to but forgot. 1/

[Show this thread](#)

5. Look into CAS Resources and FAQ



CAS Resources and FAQ



START EARLY



It's **OK** to be new to research.
Just start.

It's **OK** to have a mentor
outside of your major

It's **OK** to contact a professor
you do not know

Don't take "no" personally.
Just contact someone else.

Be persistent AND polite

Do I need to have previous research experience to be an OSU student researcher?

No, you don't! Research is for everyone and you do not need prior experience to try a new research opportunity.

What happens if I do not like the project I selected?

You are not required to stay with the same research project/group until you graduate. You can switch mentors, labs, ect.

When going into the project, always ask what the expected time is going to be.

Am I required to work on a project in my major?

NO. Your project can be in any discipline or interdisciplinary.

Can I do research, even if I do not want to be a professional researcher or go to graduate school?

Of Course! The benefits of undergraduate research extends to all students, regardless of career path.

Can I do research if I am a freshman, first-year student, or transfer student?

Yes! Research and creative experiences are for everyone.

Connect with CAS Research

News

Events

Resources

Opportunities



**JOIN OUR
GroupMe!**



STAY CONNECTED WITH CAS RESEARCH

https://groupme.com/join_group/104074763/cGGIwfNt



RESEARCH
COLLEGE OF ARTS AND SCIENCES

**CREATE KNOWLEDGE.
BE A STUDENT RESEARCHER.**



@CASRESEARCHOSU



@CASRESEARCHOKSTATE

