MARYLAND SUMMER RESEARCHERS TALKS

Order of Admission

Application Deadline: [Date]

For more information, visit scholarships.umd.edu
Why do you do research?
Why does your mentor do research?
research, n.¹

2. a. Systematic investigation or inquiry aimed at contributing to knowledge of a theory, topic, etc., by careful consideration, observation, or study of a subject.

From: Oxford English Dictionary
Reasons You Should Communicate Your Research:

1. To Inspire and Be Inspired
2. Professionalization
3. Make Valuable Connections / Network
4. Communication Completes Research
Reasons You Should Communicate Your Research:

To Inspire and Be Inspired

In *What Psychology Majors Could (and Should) Be Doing: an informal guide to research experience and professional skills*, authors Silvia, Delaney, and Marcovitch describe conferences as the best way to learn outside the classroom, an opportunity to indulge in “Binge Thinking.” Attendees spend a few days with hundreds or thousands of other people interested in their field, learning about the latest research, seeing presentations by some of the field’s most famous researchers, and meeting specialists in their sub-field.
Professionalization

The final step of any professional project is sharing it. In the research world, this means presenting your work at conferences and/or publishing it in an academic journal. Conference presentations and research articles offer the chance to receive valuable feedback. Moreover, they require you to explain your methodology and clearly articulate your project, helping you to clarify and hone your thoughts as well as deepen your understanding of your research.

Reasons You Should Communicate Your Research:
Reasons You Should Communicate Your Research:

Make Valuable Connections / Network

The job search or grad school application process will be upon you sooner than you think. You should take every opportunity to meet colleagues, potential mentors, and potential employers. Conferences usually have a networking event; they sometimes have a job or grad school fair.
Advice for Pre-Med Students from MIT

While not all MIT applicants to medical school do research, many do.... Note that research is not a prerequisite for medical school, but it can enhance your learning experience at MIT and strengthen your application. Doing research while at MIT often leads to... a strong sense of self-confidence in knowledge of a particular area. All of these things allow an MIT applicant to excel by having additional areas of expertise or confidence.
National Science Foundation Graduate Fellowship:
Top Tips from Reviewers

1. **Gain research experience, especially at the undergrad level**
2. Become involved in leadership roles and community service
3. **Write clear and scientifically-sound essays**
4. **Strive for scientific publications and presentations**
5. **Have a strong academic record**
   6. Be sure to demonstrate the Broader Impacts criteria well
   7. Select strong recommenders
   8. Link your teaching and research experiences
   9. Ensure you display a history of accomplishments
10. **Thoroughly address both Intellectual Merit and Broader Impacts**
11. Highlight any international experience you may have
12. Display your passion and motivation in the essays
13. Be knowledgeable of your research topic
14. Demonstrate the significance of your proposed work
15. Make sure the proposed research is realistic
NDSEG - Guidance for Evaluation of Applications

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Two Key Ways to Communicate Your Research

1. Conference Posters or Presentations

2. Journal Articles

*Many Venues for Undergrads to Present*
Conference Presentation Venues:

1. On-Campus and Off-Campus

2. General or Specific (Disciplinary)

3. Student-Only or Professional
Presenting Undergraduate Research at a Conference:

On-Campus Opportunities

Undergraduate Research Day
Held each year on the Wednesday before Maryland Day, Undergraduate Research Day offers all undergraduates an opportunity to present their research to their peers and professors. A call for proposals is issued in February, and students submit abstracts summarizing their research projects. Participation is free, and nearly 500 students present their work annually.
Date of Conference: April 25, 2012 (provisional date)
Location of Conference: University of Maryland

Bioscience Research & Technology Review Day
Bioscience Research & Technology Review Day is a special annual event that features research talks, presentations, mini-symposia, and demonstrations by University of Maryland scientists. Events include a poster session, networking panel, employer fair, and invited speakers.
Date: Tuesday, Early November
Location: University of Maryland
Presenting Undergraduate Research at a Conference:

Off-Campus Opportunities - Non-Specialized

National Conference on Undergraduate Research (http://www.ncur.org/)
Perhaps the longest-running national conference to address undergraduate research, NCUR features presentations, scholarship, and performances in the sciences, humanities, social sciences, and arts. The conference features poster and oral presentations by more than a thousand students. Presenters also may submit their findings for publication in each year’s Conference Proceedings. A university-wide call for proposals is issued each winter, and proposals are evaluated by faculty members.
Date: March 29-31, 2012
Location: Weber State University (Ogden, Utah)

Posters on the Hill (http://www.cur.org/postersession.html)
The Council on Undergraduate Research hosts this annual event to honor undergraduate researchers from the Arts and Humanities, Biology, Chemistry, Geosciences, Mathematics/Computer Science, Physics/Astronomy, Psychology, and Social Sciences. Students present their research on posters to an audience which includes members of Congress and congressional staff.
Deadline for applications: November 2011
Date: April 2012
Location: Washington, DC
Presenting Undergraduate Research at a Conference:
Off-Campus Opportunities – Science and Engineering

_Sigma Xi Annual Meeting & International Research Conference_  
(http://www.sigmaxi.org/meetings/annual/src.shtml)

Every year a Student Research Conference is held in conjunction with the annual meeting of Sigma Xi, The Scientific Research Society. The conference features presentations from undergraduate researchers in all fields of science and engineering.

Deadline for applications: October 15, 2011 (for inclusion in the program); October 29, 2011 (final abstract deadline)

Date: November 10-13, 2011
Location: Raleigh Convention Center, Raleigh, North Carolina
Presenting Undergraduate Research at a Conference: Off-Campus Opportunities – Disciplinary for Undergrads

Southeast Conference for Undergraduate Women in Physics
(http://www.physics.ncsu.edu/scuwp/)
SCUWP is a three-day conference for undergraduate physics majors in the southeastern United States.

Annual Biomedical Research Conference for Minority Students
(http://www.abrcms.org/index.html)
Now in its eleventh year, ABRCMS is the largest, professional conference for biomedical and behavioral sciences students, including mathematics.

National Education Association Student Program- Annual Student Leadership Conference
Presenting Undergraduate Research at a Conference:

Off-Campus Opportunities – Disciplinary / Professional

**AGU (American Geophysical Union) Fall Meeting** ([http://sites.agu.org/fallmeeting/](http://sites.agu.org/fallmeeting/))
The AGU Fall Meeting is the largest worldwide conference in the geophysical sciences, attracting nearly 20,000 Earth and space scientists, educators, students, and policy makers.

**ACS (American Chemical Society) National Conference**
Undergraduates are invited to the fall ACS national meeting which hosts sessions specifically for undergraduates, including a an undergraduate poster session and a graduate school information session.

The BMES Annual Meeting is now accepting research submissions from undergraduates. The conference will feature more than 1,500 poster presentations and hundreds of oral presentations on all aspects of biomedical engineering. There will also be a Career Day for students.

**American Public Health Association Annual Meeting** ([http://www.apha.org/meetings/AnnualMeeting/](http://www.apha.org/meetings/AnnualMeeting/))
The APHA Scientific Sessions are developed from abstracts that are submitted to APHA Sections, SPIGs, Caucuses, Forums and the Student Assembly during the abstract submission process.

**National Communication Association**  [http://www.natcom.org/convention/]
How to Create a Conference Poster: Useful Links #1

Examples of Posters

University of Texas Poster Samples ([http://www.utexas.edu/ugs/ugr/poster/samples](http://www.utexas.edu/ugs/ugr/poster/samples)) for the sciences, social sciences, and humanities


Flickr Poster Sessions Group ([http://www.flickr.com/groups/368476%40N21/pool/](http://www.flickr.com/groups/368476%40N21/pool/))


Templates


How to Create a Conference Poster: Useful Links #2

Poster Preparation Resources

Advice on Designing Scientific Posters ([http://www.swarthmore.edu/NatSci/cpurrin1/posteradvice.htm](http://www.swarthmore.edu/NatSci/cpurrin1/posteradvice.htm)) from Swarthmore College


Academic Posters ([http://www2.napier.ac.uk/gus/writing_presenting/academic_posters.html](http://www2.napier.ac.uk/gus/writing_presenting/academic_posters.html)) from Edinburgh Napier University

The Basics of Poster Design ([http://www.waspacegrant.org/posterdesign.html](http://www.waspacegrant.org/posterdesign.html)) from the Washington Space Grant Consortium

Creating Effective Posters ([http://www.ncsu.edu/project/posters](http://www.ncsu.edu/project/posters)) from North Carolina State University

How to Create a Conference Poster: Useful Links #3

_Poster Preparation Resources_ (continued)


_Preparing a Poster Presentation_ ([http://www.webguru.neu.edu/communicating-science/communicating/preparing-poster-presentation](http://www.webguru.neu.edu/communicating-science/communicating/preparing-poster-presentation)) from Northeastern University via the WebGuru


_Washington NASA Space Grant Consortium_ ([http://www.washington.edu/research/urp/downloads/pstrchecklist.pdf](http://www.washington.edu/research/urp/downloads/pstrchecklist.pdf)) has a checklist of what a poster should include
How to Write a Conference Paper or Abstract: Useful Links

*Claremont Graduate University Writing Center Conference Paper Guide:* Explains everything from the different types of conference papers to how to write the paper and deliver it: [http://www.cgu.edu/pages/861.asp](http://www.cgu.edu/pages/861.asp)

*The University of Notre Dame Writing Center Proposals to Presentations Workshop:* Explains how to write abstracts and presentations: [http://www.nd.edu/~urnd/7-events/Connie_Mick2.pdf](http://www.nd.edu/~urnd/7-events/Connie_Mick2.pdf)

*Abstract Guidelines for Papers* from Academic Conferences International: [http://www.academic-conferences.org/abstract-guidelines.htm](http://www.academic-conferences.org/abstract-guidelines.htm)

*How to Write an Abstract* from the University of California: [http://research.berkeley.edu/ucday/abstract.html](http://research.berkeley.edu/ucday/abstract.html)

*How to Write an Abstract* by Philip Koopman: [http://www.ece.cmu.edu/~koopman/essays/abstract.html](http://www.ece.cmu.edu/~koopman/essays/abstract.html)


*Writing a Smashing Abstract Takes Practice!* by Barry Costa-Pierce (focus on natural sciences): [http://darwin.bio.uci.edu/~sustain/Abstract.html](http://darwin.bio.uci.edu/~sustain/Abstract.html)

*Spelman College's How to Write a Conference Paper:* [http://www.spelman.edu/~lniles/Conference.htm](http://www.spelman.edu/~lniles/Conference.htm)
Submitting Undergraduate Research to a Journal: On-Campus Opportunities

*Scientific Terrapin* ([http://www.scientificterrapin.umd.edu/](http://www.scientificterrapin.umd.edu/)) is a bi-annual peer-reviewed journal which publishes articles in the fields of life sciences (biology, chemistry, biochemistry, and ecology), applied sciences (engineering, mathematics, computer science, physics, and geology), and social sciences (economics, government and politics, psychology, business, and sociology). Articles must be 5-6 pages single spaced (up till 10 pages including tables/figures), formatted in 12 pt Times New Roman font with 1 in. margins in .doc(x) or .pdf files.

*Honors Online Journal* ([http://www.honors.umd.edu/honors_journal.php](http://www.honors.umd.edu/honors_journal.php)) will showcase stellar student work from students in its five living-learning programs: Digital Cultures and Creativity, Entrepreneurship and Innovation, Gemstone, Honors Humanities, and University Honors. The journal will be a mix of scholarly and personal essays, creative writing, art, links to online movies/videos/music, reviews, cartoons, interviews, and dialogues between members of our community.

*Interpolations* ([http://www.english.umd.edu/academics/academicwriting/interpolations/spring-2011](http://www.english.umd.edu/academics/academicwriting/interpolations/spring-2011)) is a refereed online journal showcasing superior student writing from the English Department's First Year Writing Program. These essays represent the finest work--a combination of compelling ideas and outstanding writing--being produced by our academic community's newest members. This journal is an effort to foster our students' voices in the University of Maryland's ongoing academic discourse. In addition to the thought provoking essays that appear in the journal, there will eventually be forums for the entire university community to respond to these papers so that a real visible dialogue can occur in this space.
Submitting Undergraduate Research to a Journal: On-Campus Opportunities

Janus (http://www.janus.umd.edu/) is the history journal created in the fall of 2000 by a group of undergraduate history students at the University of Maryland and features writing relevant to the study of history. The journal seeks to grant students a voice in the academic world by providing a chance to publish their work and participate formally in scholarly debate.

The Paper Shell Review (https://www.facebook.com/pages/The-Paper-Shell-Review/175774542463277?v=info) is the University of Maryland's undergraduate journal of essays on literary topics and book reviews. It accepts essays of no more than twenty pages and book reviews of no more than two pages.

Stylus (http://www.styluslit.org/) is a journal of literature and art consists of art, prose, poetry and multilingual pieces submitted by University of Maryland undergraduate and graduate students. Their reading period is from September to February, and our final deadline is January 31st. Students are encouraged to submit early in the year in order to receive detailed feedback on their work. The journal accepts up to five pieces per genre, though some students may be invited to submit more. The work is put through a rigorous, anonymous review process.

Trace (http://www.arch.umd.edu/Inside/research/traceFinal.html) is an annual journal of the architecture department, serving as a record and commentary on issues in architecture education and practice. Recent student work is presented alongside interviews with leading architects and academics in an effort to document the conversations that take place in architecture.
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – All Fields

*Stanford Undergraduate Research Journal*

an annual peer-reviewed publication of research articles written primarily by Stanford undergraduates, but also well-qualified students at other institutions, from all academic fields  [http://www.stanford.edu/group/journal/](http://www.stanford.edu/group/journal/)

*Student Pulse* (all disciplines)  [http://www.studentpulse.com/](http://www.studentpulse.com/)

*Pittsburgh Undergraduate Review*
PUR showcases the best available undergraduate research. This is achieved by publishing indiscriminately with regards to location and discipline; the PUR is a multidisciplinary journal that accepts papers from around the world.  [http://136.142.181.181/~pur/index.php](http://136.142.181.181/~pur/index.php)
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – General Humanities & Arts

**AGORA** Papers (Lynchburg College-features articles and book reviews in the humanities)  [http://glasscock.tamu.edu/agora/papers.html](http://glasscock.tamu.edu/agora/papers.html)

*The Lamar Journal of the Humanities* (Lamar University)  
[http://dept.lamar.edu/EnglishandModernLanguages/Lamar%20Journal%20of%20the%20Humanities.htm](http://dept.lamar.edu/EnglishandModernLanguages/Lamar%20Journal%20of%20the%20Humanities.htm)

**Philologia** (Virginia Tech)

*Valley Humanities Review* (Lebanon Valley College- features essays on topics such as literature, history, religion, philosophy, art, art history and foreign languages)  
[http://www.lvc.edu/vhr/](http://www.lvc.edu/vhr/)
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – Disciplinary Humanities & Arts

English

*The Oswald Review* (University of South Carolina Aiken)
http://web.usca.edu/english/oswald-review/

*Creative Writing and Rhetoric*

Allegheny Review (Allegheny College)
Stylus: a journal of literature and art (UMD)
Young Scholars in Writing: Undergraduate Research in Writing and Rhetoric
(University of Missouri-Kansas City)
Submitting Undergraduate Research to a Journal: 
Off-Campus Opportunities – Disciplinary Humanities & Arts

Philosophy

Aporia (Dartmouth College)

The Dualist (Stanford University)

Episteme (Denison University)

The Interlocutor (University of the South)

Prologema (University of British Columbia)

Stoa (Center for Philosophical Education)

The Yale Philosophy Review (an annual journal that showcases the best and most original of philosophic thought by undergraduate students, worldwide, on a broad range of philosophic topics, as well as book reviews and interviews of philosophic content)
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – General Science & Engineering

Journal of Young Investigators

Reviews in Undergraduate Research (Rice University)

Journal of Undergraduate Sciences (jus) (Harvard University- features articles in a wide variety of fields, ranging from Astronomy to Zoology)

National Undergraduate Research Clearinghouse (Any scientific manuscript. They can be empirical studies or literature reviews. They can be from any scientific discipline)

American Journal of Undergraduate Research (AJUR) (A refereed journal for undergraduate research in the pure and applied sciences, mathematics, engineering, technology, and related areas in education.)

Undergraduate Research Journal for the Human Sciences
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – Specific Science & Engineering

_Agriculture and Life Sciences_
Review of Undergraduate Research in Agriculture and Life Sciences (RURALS)

_Architecture_
Trace (UMD)

_Bioengineering_
Journal of Undergraduate Research in Bioengineering (JURIBE) (Beta Beta Beta, National Biological Honor Society for members only)

_Biology_
BIOS (Beta Beta Beta, National Biological Honor Society for members only)
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – Specific Science & Engineering

Mathematics
Morehead Electronic Journal of Applicable Mathematics
Rose Hulman Institute of Undergraduate Math Journal
Furman University E-Journal of Undergraduate Math

Neuroscience
Impulse: An Undergraduate Journal for Neuroscience

Physics
Journal of Undergraduate Research in Physics  A peer-reviewed, online journal of the Society of Physics Students (SPS) and Sigma Pi Sigma, the physics honor society. JURP is devoted to archiving research conducted by undergraduate students in physics and its related fields, and is a vehicle for the exchange of ideas and information by undergraduate students.
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – Social Sciences

Anthropology
Imponderabilia (international student anthropology journal)

Economics
Issues in Political Economy (Elon University) http://org.elon.edu/ipe/

Economics
Illinois Wesleyan University Undergraduate Economic Review

Politics, Culture, Society
Michigan Journal of Political Science (Political Science, History, and/or Political Economy)

Public Writing (a Cultural Studies Journal for Undergraduate Writers provides a lively and provocative online forum for undergraduate writers who are engaged in critique of contemporary, historical, public ideas)
Submitting Undergraduate Research to a Journal:
Off-Campus Opportunities – Social Sciences

Psychology

The Yale Review of Undergraduate Research in Psychology (research articles, literature reviews, and other scientific writing in the field of psychology)

Psi Chi Journal of Undergraduate Research

Journal of Psychological Inquiry
How to Write a Journal Article: Resources


WHAT’S THE NEXT STEP?

- Talk to your mentor and other collaborators in your project
- Identify appropriate venues – conferences and/or journals
- Prepare your submission or proposal
- Present!

Visit the website of the Maryland Center for Undergraduate Research to see this presentation or to contact us for an appointment:

www.ugresearch.umd.edu