Applying to Summer Programs, Fellowships, and Graduate School in the Mathematical Sciences

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Edray Herber Goins

Latinos in the Mathematical Sciences
Institute for Pure and Applied Mathematics

April 11, 2015
Outline of Talk

1. Summer Programs for Graduate Students
2. Graduate Programs in the Mathematical Sciences
3. Money for Graduate School
4. Application Checklist
5. Applying for the NSF GRFP
6. More Resources
Which Summer Programs Can I Apply For?
Research Experiences for Undergraduates

Research Experience for Undergraduates (REUs) are summer programs sponsored by the National Science Foundation (NSF). REUs usually consist of two parts: intensive study of topics through lecture and interaction, and student research on a question/quest. Travel costs are paid for as well as room and board. A stipend is given to participants. These are all available on a competitive basis. Students that participate in REUs often present their research at national meetings.

Finding and Applying for REUs
Both AMS and the NSF keep current lists of math REUs. Most deadlines for the summer programs are in February and March.

AMS list of REU sites
NSF list of REU sites

More Information
Not sure what it would be like to participate in an REU? Take a look at this article from our archives: Is an REU for you?

http://www.maa.org/programs/students/undergraduate-research/research-experiences-for-undergraduates
Is an REU for You?

NOTE: This article is from 1998. While some of the details for REUs have changed over time and the number of sites has increased, these successful and popular programs exist in mostly the same form today. The article below is meant to give you an idea of what REUs are like. Please look into specific REUs (both AMSP and the NSF keep current lists) for current information.

By DEANNA HAUNSPERGER and STEVE KENNEDY

Did you ever wonder what it means to do research in mathematics? How do you start? Where do you get a problem? What do you do when you get stuck? What, exactly, are you doing when you're not stuck? Most people have to wait until graduate school to find answers to these questions. Increasing numbers of undergraduates, however, are getting a sneak peek at research mathematics by attending one of the many Research Experiences for Undergraduates (REUs) offered around the country (There are approximately twenty mathematics REUs each summer. Check out the list of programs at the National Science Foundation Math REU Web page[1]).

We wondered what happens at an REU, so we contacted about two dozen alumni and asked them to describe their experiences. One thing we learned was that all REUs are not the same. Dan Isaksen, now a graduate student at the University of Chicago, participated in REUs at the Universities of Dayton and Minnesota-Duluth as an undergraduate and has several times returned to Duluth as an advisor. He comments, "I think it is very important for a student to find the right...

http://www.maa.org/programs/students/undergraduate-research/research-experiences-for-undergraduates/is-an-reu-for-you
Research in Industrial Projects for Students (RIPS) 2015
JUNE 22 - AUGUST 21, 2015

Overview

The Research In Industrial Projects for Students (RIPS) Program provides an opportunity for talented undergraduate students to work in teams on a real-world research projects proposed by sponsors from industry or the public sector. The student team, with support from their academic mentor and industry mentor, will research the problem and present their results, both orally and in writing, at the end of the program.

The program is nine weeks. IPAM provides each undergraduate student with a travel allowance and a stipend of $3,000. Housing and most meals are also included.

RIPS-LA students will live in residence halls on the UCLA campus and will work at IPAM. We

http://www.ipam.ucla.edu/programs/student-research-programs/research-industrial-projects-students-rips-2015/
Summer Programs for Graduate Students
Graduate Programs in the Mathematical Sciences
Money for Graduate School
Application Checklist
Applying for the NSF GRFP
More Resources

Mathematical and Theoretical Biology Institute

MTBI's Nicholas Roberts Among Winners for Outstanding Poster Presentation at the 2015 JMM

Congratulations to Nicholas for his presentation of "The Effects of Regional Vaccination Heterogeneity on Measles Outbreaks with France as a Case Study"

Welcome
The Mathematical and Theoretical Biology Institute supports the development of students through educational, research and mentorship activities from the undergraduate to the postdoctoral level. Its programs include intensive multiple-summer research

https://mtbi.asu.edu
MSRI-UP

The MSRI Undergraduate Program (MSRI-UP) is a comprehensive summer program designed for undergraduate students who have completed two years of university-level mathematics courses and would like to conduct research in the mathematical sciences. Due to funding restrictions, only U.S. citizens and permanent residents are eligible to apply and the program cannot accept foreign students regardless of funding.

The main objective of the MSRI-UP is to identify talented students, especially those from underrepresented groups, who are interested in mathematics and make available to them meaningful research opportunities, the necessary skills and knowledge to participate in successful collaborations, and a community of academic peers and mentors who can advise, encourage and support them through a successful graduate program.

This objective is designed to contribute significantly toward meeting the program goal of increasing the number of graduate degrees in the mathematical sciences, especially doctorates, earned by U.S. citizens and permanent residents by cultivating heretofore untapped mathematical talent within the U.S. Black, Hispanic/Latino and Native American communities.

General Description

During the summer, each of the 10 student participants will:

- participate in the mathematics research program under the direction faculty and graduate student mentors.
- complete a research project done in collaboration with other MSRI-UP students
- give a presentation and write a technical report on his/her research project
- attend a series of colloquium talks given by leading researchers in their fields
- attend workshops aimed at developing skills and techniques needed for research careers in the mathematical sciences and
- learn techniques that will maximize a student’s likelihood of admissions to graduate programs as well as the likelihood of winning fellowships
- receive a $3,000 stipend, lodging, meals and roundtrip travel to Berkeley, CA.

http://www.msri.org/web/msri/education/for-undergraduates/msri-up
Summer Programs for Graduate Students
Graduate Programs in the Mathematical Sciences
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REU
Summer Mathematics
Research Experience for Undergraduates

Deadline:
- **February 1, 2015:** Complete applications received by this date will receive full consideration.

Rolling admissions will be offered beginning March 19. Please be patient: it typically takes several weeks to build our research groups, and offers are forthcoming during the entire process. Feel free to inquire about your status if you need information to make decisions.

http://faculty.csuci.edu/cynthia.wyels/REU/application.html
How Do I Find Out About Summer REUs?
### REU Sites: Mathematical Sciences

**Arizona State University**
- **Mathematical and Theoretical Biology Institute**
- **Tempe, Arizona**
- **Primary**: Preston Swan
  - **Phone**: (480) 727-8525
  - **Email**: preston.swan@asu.edu
- **Research Topics/Keywords**: applied mathematics, mathematical biology
- **Abstract of Award**

**Auburn University**
- **Research Experience for Undergraduates in Algebra and Analysis**
- **Auburn, Alabama**
- **Primary**: Peter Johnson
  - **Email**: johnspc@auburn.edu
- **Research Topics/Keywords**: algebra, discrete mathematics
- **Abstract of Award**

**Example URL**

http://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5044
Research Experience for Undergraduates (REU)

Summer Programs for Undergraduate Students

Arizona State University

Boise State University

Boston University

Research Opportunities for Undergraduates

Complexity in Algebra, Geometry and Applications

PROMYS program at Boston University (for Counselors)

http://www.ams.org/programs/students/emp-reu
Information on summer research experiences and conferences for undergraduate and graduate students.

What is an REU?
Research Experience for Undergraduate (REU) programs are paid eight (some are six or ten) week summer programs designed to provide students with research opportunities. Students usually work as a group on a research project under the direction of a faculty. Some programs hire graduate student mentors as well. Click here for the rest of Professor Greenberg's slides. Dr. Andrew Greenberg is the director for REU's in Chemistry and Nanotechnology at the University of Wisconsin-Madison.

Why should I attend talks and conferences?
Modern mathematics is very much a collaborative activity rather than an individual one. Don't you want to know what's going on elsewhere in mathematics, and what other mathematicians find interesting? Don't expect to understand 100% of any given talk, especially if it is in a field you are not familiar with; as long as you learn something, the effort is not wasted. Click here for the rest of Professor Tao's blog. Dr. Terence Tao is full professor of mathematics at UCLA, the youngest person ever appointed to that rank at UCLA as well as co-recipient of the 2006 Fields Medal.

http://ux1.eiu.edu/~aalvarado2/REU.html
Are There Other Opportunities?
http://www.bsmath.hu
Budapest Semesters in Mathematics Education

http://bsmeducation.com
Summer Programs for Graduate Students
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Research Experience for Undergraduates (REU)
Examples of REUs
Listings of REUs
Other Summer Programs

MOSCOW CENTER FOR CONTINUOUS MATHEMATICAL EDUCATION
INDEPENDENT UNIVERSITY OF MOSCOW
HIGHER SCHOOL OF ECONOMICS

A MATHEMATICS PROGRAM IN ENGLISH
FOR UNDERGRADUATES AND GRADUATE STUDENTS

During my visit to the Independent University of Moscow, I was enormously impressed with the quality and excitement of its mathematics
Steve Smale (Fields medalist)

General information:
Introduction
About the IUM
About the HSE
About HSE Math Department
About the MCCME
Program features
Contacts
Application:
Grants
Application procedure
Application form

Spend 15 Weeks In Fairytale Moscow
Studying Mathematics In English
In A Modern Setting In The City's Historic Center

Where Can I Find Out About Graduate Programs?
http://grad-schools.usnews.rankingsandreviews.com/best-graduate-schools/top-science-schools/mathematics-rankings
Find a graduate program in the mathematical sciences

Explore graduate programs in the mathematical sciences - search and sort by specialities, requirements, masters or PhD, size, location (U.S. & Canada)

Graduate programs - place or edit your listing on this site - it's free!

Special advertising opportunities in this service

"What can I expect during my first year of a Ph.D. Program?"

Welcome to the online version of Find a Graduate Program (formerly published in book form as Assistantships and Graduate Fellowships in the Mathematical Sciences (A&GF)). This web service is primarily interded as a convenient source of comparative information on graduate programs in the mathematical sciences for prospective graduate students and their advisers. It provides only an overview of the programs offered; departments should be contacted directly for more detailed information.

http://www.ams.org/programs/students/findgradprograms/findgradprograms
Do I Have to Pay For Graduate Applications?
Project 1000 is a national program created to assist underrepresented students applying to graduate school.

Students may apply to up to seven of the over 88 participating Project 1000 institutions by using one application.

Participation is free of charge to individual students and to the participating institutions.

Project 1000 is now focusing on the STEM (Science, Technology, Engineering, and Mathematics) fields of study.

http://mati.eas.asu.edu/p1000/
Please Read This Important Note:

Effective Fall 2008 for all students applying to begin graduate study in Fall 2009, Project 1000 has refocused its efforts on behalf of underrepresented students to work exclusively with the Science, Technology, Engineering & Mathematics (STEM) fields of graduate study only.

After 20 years of award-winning operational success, we have found that our unique and highly specialized services are no longer needed or utilized to the same degree in the Arts, Humanities, Social Sciences, Health and Professional Education fields as they are still very much needed in the STEM fields of graduate study. Therefore, we are reprioritizing our limited resources to maximize their effect in the fields of greatest underrepresentation and national need.

Please contact one of our bilingual (Spanish/English) Project 1000 academic advisors toll free at 1-800-327-4893 (between 9:00 a.m. and 5:00 p.m. Mountain Standard Time) for assistance with your application process and to answer any question that you might have regarding access to our services (including login information).

If you have already contacted one of our Project 1000 academic advisors and would like to login to our website, please click here

http://mati.eas.asu.edu/p1000/
Where Do I Find Money for Graduate School in the Mathematical Sciences?
<table>
<thead>
<tr>
<th>Fellowship</th>
<th>Amount/ Duration</th>
<th>Application Deadline</th>
<th>Web Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>$34,000 for 3 years</td>
<td>October 30</td>
<td><a href="http://www.nsfgrfp.org">http://www.nsfgrfp.org</a></td>
</tr>
<tr>
<td>Hertz Foundation</td>
<td>$32,000 for 5 years</td>
<td>October 31</td>
<td><a href="http://www.hertzfoundation.org">http://www.hertzfoundation.org</a></td>
</tr>
<tr>
<td>Ford Foundation</td>
<td>$24,000 for 3 years</td>
<td>November 14</td>
<td><a href="http://sites.nationalacademies.org/pga/fordfellowships/">http://sites.nationalacademies.org/pga/fordfellowships/</a></td>
</tr>
<tr>
<td>National Physical Science Consortium</td>
<td>$20,000 for 6 years</td>
<td>November 30</td>
<td><a href="http://www.npsc.org">http://www.npsc.org</a></td>
</tr>
<tr>
<td>National Defense Science and Engineering Graduate Fellowship</td>
<td>$30,500 for 3 years</td>
<td>December 12</td>
<td><a href="http://ndseg.asee.org">http://ndseg.asee.org</a></td>
</tr>
</tbody>
</table>
The **National Science Foundation (NSF)** is the most prestigious of the graduate school fellowships.

Successful applicants receive an $34,000 annual stipend for three years.

For those applying in Mathematics, the deadline is **October 30**.
Hertz Foundation

The Hertz Foundation Graduate Fellowship Award gives the most money of the graduate school fellowships.

1. **Five Year Hertz:**
   - $32,000 annual stipend for 5 years

2. **Five-Year Coordinated:**
   - $38,000 annual stipend for 5 years

Fellows must attend one of the Foundation’s currently participating schools. You must be in either Applied Mathematics or Statistics. There is a $5,000 additional annual stipend for Fellows with dependent children.

The deadline is **October 31**.
Ford Foundation

The **Ford Foundation** has a series of fellowships depending on your year of graduate study.

1. If you’re just beginning graduate school, there is the **Predoctoral Fellowship**.

2. If you’re well into the program and are a year away from finishing, there’s the **Dissertation Fellowship**.

3. If you’ve finished graduate school and are looking for a job, there’s the **Postdoctoral Fellowship**.

You must be an underrepresented minority to be eligible for these fellowships.

Successful applicants for the Predoctoral Fellowship will receive $24,000 annually for up to three years.

The deadline for the Predoctoral Fellowship is **November 19**.
The **National Physical Science Consortium (NPSC)** pays $20,000 a year up to six years to successful applicants.

Fellows must work for an employer during the summers – which actually translates into extra income for you. The program actively seeks to assist women and underrepresented minorities.

The application deadline is **November 30**.

*Full disclosure*: This is the fellowship EHG had in graduate school!
The National Defense Science and Engineering Graduate (NDSEG) Fellowship is offered by the Department of Defense.

They offer three years of support, giving $30,500 in the first year; $31,000 in the second year; and $31,500 in the third year.

The deadline is December 12.
What Do I Need to Do to Apply to Summer Programs, Fellowships, or Graduate School?
Application Checklist

1. Familiarize yourself with the program.
   1. When are the deadlines? For the Application? For my References?
   2. Am I eligible? US Citizen / Math or Applied Math?

2. Ask for Three Letters of Recommendation + Teaching Letter

3. Write a Cover Letter, Personal statement, and AMS Cover Sheet

4. Prepare a Curriculum Vitae (CV)

5. Create an Abstract of Dissertation / Annotated bibliography

6. Write a Statement of Previous Research and a Research Statement
Asking for Letters of Recommendation
Letters of Recommendation

1. Know the Deadlines
2. Choose your references carefully; choose people that can speak to your abilities and potential, rather than someone with a prominent title.
3. Provide referees sufficient time to write a strong letter. Consider at least one month.
4. Discuss the application and share your essays with them. Consider giving a mini-lecture on your research and future plans.
5. Inform them that reference letters should reflect both your Intellectual Merit and Broader Impacts.
6. Remind reference writers about deadline a few days before the due date. Ask for a confirmation that it was submitted.
7. Have a backup reference writers!
Letters of Recommendation

You’ll need **four** letters of recommendation.

1. Your thesis advisor

2. A teaching letter from **someone who has seen you teach**
   - Course Coordinator
   - Teaching Program Administrator
   - Associate Department Chair
   - Graduate Chair

3. **Two** more from those who know your research
   - Advanced Topics Committee Members
   - Dissertation Committee Members
   - Postdoctoral Fellows
Writing a
Cover Letter
Cover Letter

1. State what program/fellowship you are applying for

2. State who your letter writers will be

3. List contact information:
   - Mailing Address (Home vs. Work)
   - Phone Number
   - E-Mail Address (Personal vs. Departmental)
   - Web Site (Personal vs. Departmental vs. ArXiv.org)
Creating an

AMS Cover Sheet
http://www.ams.org/profession/employment-services/coversheet/coversheet
2010 Mathematics Subject Classification

The current 2010 Mathematics Subject Classification (MSC2010) is a revision of the MSC2000 that has been used by MR and Zbl since 2000. MSC2010 is the result of a collaborative effort by the editors of MR and Zbl to update their shared classification. These editors acknowledge the many helpful suggestions from the mathematical community during the revision process over more than two years.

Browse Classification
Select a 2 digit classification

Search Classifications
Enter a keyword, phrase or a 2-, 3-, or 5-digit classification

Writing a Personal Statement
Personal Statement

1. Why are you fascinated by your research area?
2. What examples of leadership skills and unique characteristics do you bring to your chosen field?
3. What personal and individual strengths do you have that make you a qualified applicant?
4. How will receiving the fellowship contribute to your career goals?
5. What are all of your applicable experiences?
6. For each experience, what were the key questions, methodology, findings, and conclusions?
7. Did you work in a team and/or independently?
8. How did you assist in the analysis of results?
9. How did your activities address the Intellectual Merit and Broader Impacts criteria?
Creating a Curriculum Vitae
A curriculum vitae (CV) provides an overview of a person's experience and other qualifications. In some countries, a CV is typically the first item that a potential employer encounters regarding the job seeker and is typically used to screen applicants, often followed by an interview, when seeking employment.

Curriculum vitae is a Latin expression which can be loosely translated as *the* course of *my* life.

General Curriculum Vitae

**Biographical Sketch**

1. Professional Preparation (Undergraduate/Graduate Education)
2. Appointments (in reverse chronological order)
3. Publications (up to 5 most closely related, up to 5 other significant)
4. Synergistic Activities (broader impact)
5. Collaborators and Other Affiliations
Edray Herber Goins

CONTACT INFORMATION

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Purdue University
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West Lafayette, IN 47907-2067

Work: (765) 494-1936
Fax: (765) 494-0548
E-mail: egoins@math.purdue.edu
WWW: http://www.math.purdue.edu/~egoins

168 Villerfranche Court
West Lafayette, IN 47906
Home: (323) 251-7198

EDUCATION

Stanford University, Stanford, California USA
Ph.D., Mathematics, September 1999
Dissertation Topic: “Elliptic Curves and Icosahedral Galois Representations”
Advisors: Daniel W. Bump, Karl C. Rubin

California Institute of Technology, Pasadena, California USA
B.S., Mathematics and Physics, June 1994
Advisors: Dinakar Ramakrishnan, Steven C. Frautschi

RESEARCH INTERESTS

Algebraic Geometry, Automorphic Forms, Class Field Theory, Commutative Algebra, Elliptic Curves,
Galois Representations, Number Theory, Representation Theory

APPOINTMENTS

Purdue University, West Lafayette, Indiana USA
Associate Professor of Mathematics
Assistant Professor of Mathematics
Visiting Scholar

August 2010 – present
August 2004 – August 2010
October 2000

Writing a Research Statement
Graduate Research Statement

1. What issues in the scientific community are you most passionate about?

2. Do you possess the technical knowledge and skills necessary for conducting this work, or will you have sufficient mentoring and training to complete the study?

3. Is this plan feasible for the allotted time and institutional resources?

4. How will your research contribute to the “big picture” outside the academic context?

5. How can you draft a plan using the guidelines presented in the essay instructions?

6. How does your proposed research address the Intellectual Merit and Broader Impacts criteria?
Submitting an NSF GRFP proposal
NSF GRFP Application Materials

1. Personal Statement, Relevant Background and Future Goals
   **Two Pages**

2. Past Research Statement

3. Graduate Research Statement
   **Two Pages**

4. 3 Reference Letters
   Deadline is November 5

5. Academic Transcripts
Personal Statement

1. Why are you fascinated by your research area?
2. What examples of leadership skills and unique characteristics do you bring to your chosen field?
3. What personal and individual strengths do you have that make you a qualified applicant?
4. How will receiving the fellowship contribute to your career goals?
5. What are all of your applicable experiences?
6. For each experience, what were the key questions, methodology, findings, and conclusions?
7. Did you work in a team and/or independently?
8. How did you assist in the analysis of results?
9. How did your activities address the Intellectual Merit and Broader Impacts criteria?
Graduate Research Statement

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4. How will your research contribute to the “big picture” outside the academic context?

5. How can you draft a plan using the guidelines presented in the essay instructions?

6. How does your proposed research address the Intellectual Merit and Broader Impacts criteria?
How the NSF GRFP Panel Works

1. 800 applications in the Mathematical Sciences
2. They are divided into two panels: Math I and Math II
3. Each panel has 10-15 individuals over various disciplines
4. The panel meets for three days and divides applications into three categories:
   1. Graduating Seniors
      The panel is very generous towards
   2. First-Year Graduate Students
      They should have a good idea of the research
   3. Second-Year Graduate Students
      No applications in this area in 2013, 2014?
How the NSF GRFP Panel Works

After giving a score of 1–50, the panel places them into “Quality Groups”:

1. Quality Group 1: Highly Meritorious (20-40 applications)
   
   *Applicants placed in QG1 are outstanding and recommended to receive fellowship offers.*

2. Quality Group 2: Meritorious (60-80 applications)
   
   *Of somewhat lower quality than those placed in QG1, and of substantially equal merit within the group. These applicants are considered worthy of NSF fellowship support by the panel. Applicants from QG2 who do not receive Fellowship offers receive Honorable Mention.*

3. Quality Group 3: Not Recommended (300 applications)
   
   *Of lower overall merit than applicants placed in QG1 and QG2. Applicants in QG3 do not receive Fellowship offers or Honorable Mention.*
Writing a
Research Statement
Research Statement

1. Criterion 1: What is the **intellectual merit** of the proposed activity?
   How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the proposer to conduct the project? To what extent does the proposed activity suggest and explore creative and original concepts?

2. Criterion 2: What are the **broader impacts** of the proposed activity?
   How well does the activity advance discovery and understanding while promoting teaching, training, and learning? How well does the proposed activity broaden the participation of underrepresented groups? To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks, and partnerships? Will the results be disseminated broadly to enhance scientific and technological understanding?
What is “Broader Impact”? 

1. Innovations in teaching and training
2. Development of curricular materials and pedagogical methods
3. Contributions to the science of learning
4. Development and/or refinement of research tools
5. Computation methodologies, and algorithms for problem-solving
6. Development of databases to support research and education
7. Broadening the participation of groups underrepresented in science, mathematics, engineering and technology
8. Service to the scientific and engineering community outside of the individual’s immediate organization
9. Giving talks for the Math Club
I’m Still Confused... 

HELP!!
Examples of Job Applications

1. Alejandra Alvarado
   Assistant Professor of Mathematics
   Eastern Illinois University
   http://ux1.eiu.edu/~aalvarado2/mathjob/

2. Edray Goins
   Associate Professor of Mathematics
   Purdue University
   http://www.math.purdue.edu/~egoins/site

3. William Stein
   Professor of Mathematics
   University of Washington
   http://modular.math.washington.edu/job/
The intersection of motherhood and graduate school: the good, the bad, and the cute babies

The conversation of balancing work and life is not new to the mathematics community. Moreover, the question of how to balance raising a family while (fill in the blank with any step in an academic’s career path) has received much press in recent years, albeit disheartening. The story shared in this article is meant to offer another perspective, one of empowerment, support and ultimately, awareness of what one truly needs to be successful both as an academic and as a parent. Below, Dr. Amanda Ruiz, mother to Carolina and a junior faculty at the University of San Diego, shares her story of becoming a mother while in graduate school and the lessons she learned along the way. This is by no means a complete list of “do’s and don'ts.” Instead, this story serves only to begin the conversation of one’s own needs as one begins the balancing act that is parenthood and academia. We hope Dr. Ruiz’s experience will inspire, inform and empower your own journey, or the journey of the academics you mentor, through parenthood.

http://blogs.ams.org/mathmentoringnetwork/
E-Mentoring Network in the Mathematical Sciences

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**Write something...**

**FROM NOTIFICATIONS**

Dagan Karp
September 24, 2014

I'm a big fan of Abigail Thompson. She's the advisor of the one and only Robin Wilson; what higher praise could I give? But why oh why did she have to write this article? We need to learn from the social sciences as we work to broaden participation in mathematics, not tear down one faulty paper arguing about diversity vs ability (which is such a ridiculous false dichotomy in the first place!!!).


Visit https://sites.google.com/site/mathmentoringnetwork/ for more information, resources, older

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https://www.facebook.com/groups/MathMentoringNetwork/
Good Luck

and

Thank You!
http://www.math.purdue.edu/~egoins/notes/IPAM.pdf