

Models for Engaging Undergraduate Students in Research

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Joint Meetings of the AMS/MAA: Boston 2012
AMS Committee on Education

Part I: Before the Research Begins

Topics:

- Goals for students.
- Funding proposals.
- Choosing students / advisors.
- Finding a good research project.

Speakers:

Dean M. Evasius, Joe Gallian, Jake Levinson
Gina-Maria Pomann, Ivelisse Rubio

Part II: During the Research

Topics:

- Student schedule / Professor schedule.
- Group Dynamics.
- Timeline for completing work.
- Useful classes / computer skills.

Speakers:

Joe Gallian, Jake Levinson, Steven J. Miller
Gina-Maria Pomann, Ivelisse Rubio

Part III: After the Research

Topics:

- Credit for students / professors.
- How time intensive.
- Conferences.
- Undergraduate research and professional development.
- Funding and evaluating programs.

Speakers:

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Steven J. Miller, Gina-Maria Pomann

(A subset of) useful links:

- Elements of a good NSF proposal:
<http://sites.williams.edu/Morgan/2011/12/19/elements-of-good-nsf-reu-proposal/>
- NSF REU homepage: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund
- AMS List of REUs: <http://www.ams.org/programs/students/undergrad/emp-reu>
- SMALL (Williams REU) Homepage: <http://math.williams.edu/small/>
- Young Mathematicians Conference (Ohio State): <http://www.ymc.osu.edu/>
- AMS Undergraduate page: <http://www.ams.org/programs/students/undergrad/undergrad>
- AMS Undergraduate Conference page and reports:
<http://www.ams.org/programs/edu-support/undergrad-research/undergrad-research>
<http://www.ams.org/programs/edu-support/undergrad-research/PURMproceedings.pdf>
<http://www.ams.org/programs/edu-support/undergrad-research/REUpceedings.pdf>
- MAA Conferences: <http://www.maa.org/rumc/upcoming.html>
- LaTeX templates (paper, talk) and Mathematica primer: http://web.williams.edu/Mathematics/sjmiller/public_html/math/handouts/latex.htm

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