

Resources for advising mathematics students

Compiled by Wiebke Diestelkamp (wiebke@udayton.edu)

Last updated on August 10, 2009

Books:

- Great Jobs for Math Majors
by Stephen Lambert And Ruth J. DeCotis, 2nd edition, 2006, McGraw Hill, ISBN-10: 0071448594
- 101 Careers in Mathematics
edited by Andrew Sterrett, 2nd edition, MAA, 2003. ISBN-10: 0883857286
- She Does Math!
edited by Marla Parker, 1995, MAA, ISBN-10: 0883857022

Brochures:

- Careers in Math (updated in 2008), SIAM,
<http://siam.org/careers/thinking/pdf/brochure.pdf>
or available in print at <https://my.siam.org/forms/brochure.htm>
- Career brochures from the ASA. No longer available in print. Available online at <http://www.amstat.org/careers/otherresources.cfm>
- Careers that count, AWM, 1991. <http://www.awm-math.org/ctcbrochure/toc.html>¹
- Mathematical Moments posters, AMS, <http://ams.org/mathmoments/>
- “What can I do with a math degree?” poster, AMS, <http://www.ams.org/ams/what-mathdegree.pdf> (can also be obtained from the Public Awareness Office of the AMS)

Web links

- MAA (Mathematical Association of America – <http://www.maa.org/>):
 - Student page: <http://www.maa.org/students/>
 - Undergraduate student page: <http://www.maa.org/students/undergrad/>
 - National Research Experience for Undergraduates Program – <http://www.maa.org/nreup/>
(supports the participation of mathematics undergraduates from underrepresented groups)

¹ Don't use the “Next” buttons. Click directly on the stories on the bottom of this page. You may want to use the stories only – the photos are pretty outdated.

- Regional Undergraduate Mathematics Conferences:
<http://www.maa.org/RUMC/>
- Mathematics careers: <http://www.maa.org/careers/>
- Math classifieds:
http://www.mathclassifieds.org/home/index.cfm?site_id=1925
- AMS (American Mathematical Society – <http://ams.org>):
 - Employment services: <http://ams.org/employment>
 - Employment links for undergraduate math majors (has a link to *Assistantships and Fellowships in the Mathematical Sciences*):
<http://ams.org/employment/undergrad.html>
 - Mathematical sciences career information: <http://www.ams.org/careers/>
 - Math in Moscow Scholarships:
<http://www.ams.org/employment/mimoscow.html>
- ASA (American Statistical Association – <http://amstat.org>):
 - Career center: <http://amstat.org/careers/index.cfm>
 - Opportunities for undergraduates (awards, fellowships, competitions):
<http://amstat.org/education/oppsforundergradstudents.cfm>
 - Internships: <http://amstat.org/education/internships.cfm>
 - Graduate Programs in Statistics (includes good list from Cal State East Bay):
<http://amstat.org/education/programs.cfm>
- AWM (Association for Women in Mathematics – <http://awm-math.org>):
 - Education resources: <http://awm-math.org/education.html>
 - Career resources: <http://awm-math.org/career.html>
- SIAM (Society for Industrial and Applied Mathematics – <http://siam.org>):
 - Careers and jobs: <http://siam.org/careers/>
 - Information for students: <http://siam.org/students/>
- INFORMS (Institute for Operations Research and the Management Sciences – <http://www.informs.org>):
 - Resources and recent graduates:
<http://www.informs.org/index.php?c=41&kat=-+Student+Union&p=500|501|>
 - Career booklet: <http://www.informs.org/index.php?c=74&kat=-+Career+Booklet&p=194%7C202%7C>
- SOA (Society of Actuaries – <http://soa.org>):
 - Actuarial Training Programs: <http://soa.org/careers/atp/actuarial-training-program.aspx>
 - Information about actuarial exams: <http://soa.org/education/general-info/>

- Resources (including on schools offering actuarial programs):
<http://soa.org/education/resources/>
- Other resources regarding actuaries: <http://BeAnActuary.org/>
- Sloan Career Cornerstone Center (Sponsored by the Alfred P. Sloan Foundation):
<http://www.careercornerstone.org/mathematics/mathematics.htm>

For students interested in volunteering/teaching:

- Math for America – <http://www.mathforamerica.org/home>
Requires a 5-year commitment that includes one year of full-time graduate study and four years of teaching in secondary schools
- Teach For America – <http://www.teachforamerica.org/>
- Peace Corps – <http://peacecorps.gov>:
 - Teaching Opportunities:
http://www.peacecorps.gov/index.cfm?shell=learn.whatvol.edu_youth.edu
- AmeriCorps: <http://www.americorps.gov/>
 - AmeriCorps State and National (serve at local and national organizations and agencies committed to using national service to address critical community needs in education, public safety, health and the environment)
http://www.americorps.gov/for_individuals/choose/state_national.asp
 - AmeriCorps VISTA (serve full-time for a year at a nonprofit organization or local government agency, working to fight illiteracy, improve health services, create businesses, strengthen community groups etc.)
http://www.americorps.gov/for_individuals/choose/vista.asp
 - AmeriCorps NCCC (National Civilian Community Corps – residential program whose members live on one of five campuses and work to strengthen communities and develop leaders through direct, team-based national and community service.)
http://www.americorps.gov/for_individuals/choose/nccc.asp

Miscellaneous links:

- Research Experiences for Undergraduates (funded by the NSF) –
http://www.nsf.gov/crssprgm/reu/list_result.cfm?unitid=5044
- Budapest Semesters in Mathematics – <http://www.stolaf.edu/depts/math-old/budapest/>
- Junior Program for Women at Smith College –
<http://www.math.smith.edu/center/node/3>

- Penn State's MASS Program – <http://www.math.psu.edu/mass/>
- The George Washington University Summer Program for Women in Mathematics (SPWM) – <http://www.gwu.edu/~spwm/>
- The Carleton College Summer Mathematics Program for Women – <http://www.math.carleton.edu/smp/>
- Advice on giving a good PowerPoint presentation (Joe Gallian, Math Horizons) – <http://www.d.umn.edu/~jgallian/goodPPtalk.pdf>
- How to prepare a poster (SIAM) – <http://www.siam.org/meetings/guidelines/poster.php>
- Pi Mu Epsilon (the national mathematics honor society) – <http://www.pme-math.org/>
- Kappa Mu Epsilon (a specialized honor society in mathematics) – <http://www.kappamuepsilon.org/index.shtml>