Funding Opportunities for Mathematics Graduate Students

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• The information in this presentation applies primarily to PhD students.

• A few of the opportunities apply to MS students, also.
Teaching Assistantships

• Most common form of funding
• Can be split by semester  
  e.g. TA in Fall, RA in Spring
• Can be split within a semester  
  e.g. 25% TA and 25% RA
• Up to 6 years of funding (or 5 years if you enter with a Masters degree), provided you make good progress academically and perform TA duties satisfactorily
• Request in Spring for following year
• Annual raise determined by grad union contract
Research Assistantships

• Funding typically comes from your adviser’s grant (e.g. Campus Research Board, or NSF, or another granting agency). So first you need to get an adviser!
• RA stipend is usually the same as a TA stipend.
• RA position usually leaves you with plenty of time for your own research.
• Talk to your adviser about possible funding.
• GEAR internship – research in Geometric Structures at various universities.
Math Department and Grad College Fellowships

• Small number available. Highly competitive.
• Based on excellent academic performance
• Fellowship stipend is same as for TA
• Grad College offers Dissertation Completion fellowships
• No duties - time to concentrate on your research!
• Applications announced in the Spring
Summer funding options

- Save money from your stipend during the year.
- Summer TA – Math or NetMath about 20 positions.
- RA through adviser’s grant.
- Summer schools in U.S. or abroad (talk to professors in your area).
- Paid internship at a company or national lab (arrange by yourself, or through a professor or through PI4, or NSF associated with adviser’s grant.) Career fairs in fall semester.

Read “grad-careers” emails to learn about opportunities and see https://math.illinois.edu/academics/graduate-program/funding/summer-funding
External Fellowships

- [Graduate College Fellowship Database](http://foreign.fulbrightonline.org)
- [Graduate College Resources for applications](http://foreign.fulbrightonline.org)
- Many are restricted to US students
- Many restrict to certain fields of study, demographic characteristics of applicant, dissertation year, or other criteria
- International students – seek funding opportunities from your home country and university
- Fulbright Foreign Student Program
  - [http://foreign.fulbrightonline.org](http://foreign.fulbrightonline.org)
External Fellowships held by Math grad students

- NSF-GRF
- National Physical Science Consortium
- Ford Foundation
- NDSEG
- Royal Thai Scholarship
- NSERC (Canada)
- A*STAR Scholarship, Singapore
- Belgian-American Educational Foundation
- American Association of University Women Career Development Grant
- NSF Career Grant Fellowship
External Fellowships for U.S. students

Talk with Karen Mortensen if you might want to apply for:

- National Physical Science Consortium - Graduate Fellowships in Science, Engineering, & Math
- Ford Foundation Predoctoral Fellowships
- U.S. Department of Defense - Science, Mathematics, & Research for Transformation Defense Scholarship for Service Program (SMART)
- National Defense Science and Engineering Graduate (NDSEG) – Fellowship
- U.S. Department of Energy Computational Science Graduate Fellowship
- Hertz Foundation (applied mathematics)
NSF Graduate Research Fellowship for U.S. students

- Stipend = $34,000 per year for three years.
- Why to apply: money, freedom, prestige, application experience.
- U.S. students should apply in 1st or 2nd year.
- Criteria: intellectual merit & broader impact.
- Help with applications: faculty, Grad College, Karen Mortensen in our department.