Division of Mathematical Sciences (DMS)

https://www.nsf.gov/div/index.jsp?div=DMS

- Upcoming events
https://www.nsf.gov/events/index.jsp?org=DMS

- Funding opportunities
https://www.nsf.gov/funding/programs.jsp?org=DMS

- Upcoming deadlines
https://www.nsf.gov/funding/pgm_list.jsp?ord=date&org=NSF&sel_org=DMS&status=1

- DMS Virtual Office hours (VOH) slides and recently asked questions https://www.nsf.gov/mps/dms/presentations.jsp

Programs of Interest

- Topology and Geometry Conferences
  https://beta.nsf.gov/funding/opportunities/geometric-analysis

- Graduate Research Fellowships
  https://beta.nsf.gov/funding/opportunities/nsf-graduate-research-fellowship-program-grfp

- Postdoctoral Fellowships

  - MSPRF: https://beta.nsf.gov/funding/opportunities/mathematical-sciences-postdoctoral-research-fellowships-msprf

  - MPS-Ascend: https://beta.nsf.gov/funding/opportunities/mathematical-and-physical-sciences-ascending-postdoctoral-research

- Early Career opportunities

  - CAREER: https://beta.nsf.gov/funding/opportunities/faculty-early-career-development-program-career

  - LEAPS: https://beta.nsf.gov/funding/opportunities/launching-early-career-academic-pathways-mathematical-and-physical-sciences

Where/How to Submit

- Fastlane is being discontinued, but as of now, there are still some types of proposals that still need to be submitted through Fastlane. (Ex. AGEP supplements, submissions that ask for reference letters)

- The new NSF submission platform is Research.gov https://www.research.gov/

- LaTeX templates https://github.com/nsf-open/nsf-proposal-latex-samples

Slides from the May 2022 DMS VOH
Tips for new PIs: Basics of the Process

- **NSF:** funding opportunity

- **PI:** submit proposal to program

- **Program officers:** arrange for review (panel, ad-hoc, internal)

- **Reviewers / panel:** give advice

- **Review criteria:**
  - Intellectual merit
  - Broader impacts

- **Program Officers:** make recommendation

- Higher level review

- **PI:** receives award or declination with feedback

- Whole process: 6 months for most decisions

Slides from the May 2022 DMS VOH
Tips for new PIs: Do this!

- Read & follow PAPPG & solicitation
- Start early / proofread carefully
- Put your research in context
- Do the background work
- Be specific:
  - "Question"
  - "Conjecture"
  - "Target Theorem"
  - What tools & approaches you'll use
  - Also for Broader Impacts!

- Be ambitious but realistic
- Write for the reviewers
  - Experts in your general field
  - Reading **a lot** of proposals
- Get help / mentorship
- Read reviews & other feedback
- Answer:
  - Why this research?
  - Why you?
  - Why now?

Slides from the May 2022 DMS VOH, contd.
Tips for new PIs: Don't do that!

- Start at the last minute

- Be vague:
  - "Investigate"
  - "Explore"
  - "Study"

- Dive into technicalities

- Fake it / lip service
  - "potential applications to cryptography"
  - "mentor students from under-represented groups"

- Do the next obvious step

- Neglect broader impacts

- Misunderstand broader impacts
  - Not applications to other areas of math or science
  - Not everyday duties of faculty
  - Not collaborating with women

Most of all, don't give up!

NSF

Slides from the May 2022 DMS VOH, contd.

- For previous slides and recently asked questions, see https://www.nsf.gov/mps/dms/presentations.jsp

- Submit questions/suggestions about DMS Virtual Office Hours to DMS-VOH@nsf.gov

- For specific questions about a project, contact a Program Officer

- For future Virtual Office Hour topics, see https://www.nsf.gov/events/index.jsp?org=DMS

- Next DMS VOH: June 15, 2:00-3:00 PM Eastern Time

  ➢ Division-wide Q&A – ask us anything!
  ➢ Questions can be submitted in advance on the registration form.

Questions?