

# Division of Mathematical Sciences (DMS)

## Welcome to our Virtual Office Hour!

Date: September 16, 2021

Welcome to the DMS Virtual Office Hour. We will begin soon.

Please submit general questions via the Q&A box  
available to you on Zoom.

Moderators (VOH team): J. Matthew Douglass, **Constanze Liaw**,  
Swatee Naik, Adriana Salerno, Chris Stark



# Division of Mathematical Sciences (DMS)

## Opportunities and upcoming deadlines

- 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](https://www.nsf.gov/funding/pgm_list.jsp?ord=date&org=NSF&sel_org=DMS&status=1)
  - Joint DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences: Proposal window September 1-20
  - Probability: Proposal window September 10-25
  - Foundations: Target date September 28
  - Combinatorics: Target date September 28
  - Analysis: Proposal window September 16-30
  - Secure and Trustworthy Cyberspace (SaTC): Proposal window ends September 30
  - Algebra and Number Theory: Target Date October 8
- Updated PAPPG for proposals submitted or due, on/after October 4  
[https://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf22001](https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf22001)



# Division of Mathematical Sciences (DMS)

## Today's Agenda

Program Directors present (and topics discussed) include

- **Juan C. Meza** (Division Director; General Update)
- Joanna Kania-Bartoszyńska, Swatee Naik, Krishnan Shankar and **Chris Stark** (Topology and Geometric Analysis)
- Tiziana Giorgi, **Pedro Embid** and Eun Heui Kim (Applied Mathematics)
- **Henry A. Warchall** (Research.gov)
- Stefaan DeWinter, Tiziana Giorgi, Yuliya Gorb, Edsel Pena, Andrew Pollington, **Krishnan Shankar** and Sandra Spiroff (MSPRF)
- **Swatee Naik**, Adriana Salerno and Sandra Spiroff (GRFP)

### Subscribe to DMSNEWS:

Send email to [listserv@listserv.nsf.gov](mailto:listserv@listserv.nsf.gov)

In the body of the message, put the following command:  
subscribe dmsnews [your name]

### Suggest a topic for future VOH:

Send email to [dms-voh@nsf.gov](mailto:dms-voh@nsf.gov)



# Division of Mathematical Sciences (DMS)

## Update – September 16, 2021

- General Update
- Introductions to new program officers:
  - Adriana Salerno (ANT)
  - Marian Gidea (Analysis)
  - Jeremy Tyson (Analysis)
  - Stacey Levine (Comp Math)
  - Yulia Gel (Statistics)



# Topology and Geometric Analysis (TGA) Overview

- **Topology:**  
[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5551&org=DMS&from=home](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5551&org=DMS&from=home)
- **Geometric Analysis:**  
[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5549&org=DMS&from=home](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5549&org=DMS&from=home)
  - **Program Officers:**  
Joanna Kania-Bartoszyńska ([jkaniaba@nsf.gov](mailto:jkaniaba@nsf.gov))  
Swatee Naik ([snaik@nsf.gov](mailto:snaik@nsf.gov))  
Krishnan (Ravi) Shankar ([kshankar@nsf.gov](mailto:kshankar@nsf.gov))  
Christopher Stark ([cstark@nsf.gov](mailto:cstark@nsf.gov))
- **Submission Target Date: November 2, 2021** (NSF PD 20-1267, PD 20-1265)



# Topology and Geometric Analysis (TGA) Conference and Workshop Proposals

- **Read the DMS conference solicitation (NSF 21-541) and PAPPG for requirements (note new version of PAPPG effective in October 2021)**  
**Solicitation:** <https://www.nsf.gov/pubs/2021/nsf21541/nsf21541.htm>

- **Submission Windows:**

In view of the pandemic, TGA's conference submission windows are currently suspended.

Please submit conference proposals for in-person meetings with budget requests not exceeding \$50,000 at least four months in advance of the conference dates. No decisions will be made on proposals to support in-person conferences until it is established whether any pandemic-related travel restrictions for the conference site and time frame will be in place.



# Applied Mathematics Program

- **Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5664](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5664)

- **Program Officers for DMS:**

Pedro F. Embid ([pembid@nsf.gov](mailto:pembid@nsf.gov))

Tiziana Giorgi ([tgiorgi@nsf.gov](mailto:tgiorgi@nsf.gov))

Eun Heui Kim ([eukim@nsf.gov](mailto:eukim@nsf.gov))

- **Submission Deadline:** November 15, 2021 (PD 16-1266)

**Submission Window:** November 1, 2021 – November 15, 2021



# Applied Mathematics Program (cont.)

- The program supports mathematics research motivated by or influencing problems arising in science and engineering
- Important factors:
  - Mathematical merit and novelty
  - Breadth and quality of impact on applications
- Proposals whose primary applications are in the biological sciences are inappropriate for Applied Mathematics
- To find awards funded by this program:
  - Go to the NSF award search engine (advanced search):  
<https://www.nsf.gov/awardsearch/advancedSearch.jsp>
  - Enter Element Code: 1266
  - Enter a time window, e.g., 10/01/2019 - 09/30/2020





# Research.gov

## Try it once – You'll never go back!

- **Website:** [www.research.gov](http://www.research.gov)
- **What is Research.gov ?**
  - The successor to NSF FastLane for:
    - Submitting proposals
    - Checking proposal status
    - Submitting award Notifications & Requests
    - Submitting project reports
  - A way to make NSF proposal / award processes easier for researchers
- **Is Research.gov the same as Grants.gov ?**
  - No, not even a resemblance !



# Research.gov Quick Facts

- Software being rolled out in stages; more features added each update
- Capabilities now nearly complete
- Can now submit any research proposal that conforms to standard PAPPG requirements
- Improved interface much easier to use than FastLane
- If you submitted an NSF proposal recently, you logged in via Research.gov and had to navigate back to FastLane – next time, just stay!
- Capabilities for other special proposal types are coming soon:
  - Letters of Intent
  - Preliminary Proposals
  - Fellowship proposals
  - Proposals allowed to have longer than 15-page Project Description



# Mathematical Sciences Postdoctoral Research Fellowship (MSPRF) Overview

- **Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5301](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5301)

- **Program Officers for DMS:**

Stefaan DeWinter ([sgdewint@nsf.gov](mailto:sgdewint@nsf.gov))

Tiziana Giorgi ([tgiorgi@nsf.gov](mailto:tgiorgi@nsf.gov))

Yuliya Gorb ([ygorb@nsf.gov](mailto:ygorb@nsf.gov))

Edsel Pena ([epena@nsf.gov](mailto:epena@nsf.gov))

Andrew D. Pollington ([adpollin@nsf.gov](mailto:adpollin@nsf.gov))

Krishnan Shankar ([kshankar@nsf.gov](mailto:kshankar@nsf.gov))

Sandra Spiroff ([sspiroff@nsf.gov](mailto:sspiroff@nsf.gov))

- **Submission Deadline:** October 20, 2021 (**NSF 16-558**)

- **Eligibility: Several Criteria (see solicitation):** U.S. citizen, national or permanent resident; recent doctoral recipient; research in mathematics or statistics; no previous award (except GRFP or conferences); no duplication of another proposal; no prior MSPRF award; must have doctoral degree prior to start of MSPRF award.

- **Fellowship options:** Research fellowship option or research instructorship option. Both include 6 months of summer support.



# Mathematical Sciences Postdoctoral Research Fellowship (MSPRF)

## Overview (cont.)

- **Stipends & Allowances:** Total fellowship amount is \$150,000 which includes monthly stipend of \$5,000 (full-time) or \$2,500 (half-time); research allowance of \$12,000 paid as a lump sum; annual allowance of \$9,000 in support of fringe benefits.
- **Proposal key components:**
  - Project summary (1-page limit); project description (5-page limit), which excludes references (no page limit).
  - Three or four letters of reference, including one letter from doctoral advisor
  - One additional letter from sponsoring scientist, which is limited to **3 pages** and should **NOT** be a letter of recommendation. Should include details about sponsoring scientist's role in training, research and professional development of the fellow.



# GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP) Overview

- **Program Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=6201](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201)

FAQ, links to program description, eligibility requirements, application process, lists of fellows, information regarding Graduate Research Opportunities Worldwide (GROW), Graduate Research Internship Program (GRIP)

- **Solicitation:** <https://www.nsf.gov/pubs/2021/nsf21602/nsf21602.htm>

- **Contact:** Email: [info@nsfgrfp.org](mailto:info@nsfgrfp.org), Tel. (866) 673-4737 (866-NSF-GRFP)

**Submission Deadline for Mathematical Sciences: October 22, 2021**

Interested in becoming a reviewer? Use the registration link at

<https://www.nsfgrfp.org/reviewers/>



# GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP) Overview (cont.)

- **Eligibility:** U.S. citizens, nationals, and permanent residents pursuing research-based Master's or Ph.D. at an accredited U.S. institution (see solicitation and FAQ for eligible fields of study, contact [grfp@nsf.gov](mailto:grfp@nsf.gov) for questions regarding institution accreditation)
- Undergraduate seniors or graduate students- grad. students can apply only ONCE
- **Total award \$138,000-** \$34,000 stipend + \$12,000 educational allowance to the graduate institution, for each of three years within award duration of five years
- **Application components:** Research statement, transcripts, reference letters

**START EARLY**

Format must be followed exactly; submit in Research.gov through the GRFP Application Module, reviewers are assigned based on field of study selected by the applicant

- **Contact for applicants:** Email: [info@nsfgrfp.org](mailto:info@nsfgrfp.org), Tel. (866) 673-4737 (866-NSF-GRFP)
- Contact for GRFP administrators: [grfp@nsf.gov](mailto:grfp@nsf.gov)



# Virtual Office Hour: Questions from registration

1. Topology and Geometric Analysis:
  - A. Do you accept collaborative proposals, and can they be funded?
  - B. Do these programs welcome proposals in algebraic geometry, representation theory, or dynamical systems?
  - C. Can I submit a CAREER and a regular proposal in the same year?
2. Applied Mathematics:
  - A. Do you co-review with other disciplines such as engineering or materials research?
  - B. Do you fund collaborators or PIs in engineering departments?
  - C. What are the primary differences between the applied and computational math programs?
3. MSPRF:
  - A. How are these fellowship proposals reviewed?
  - B. Do you fund postdocs working in other countries, or in other departments such as computer science?
  - C. Can a postdoctoral fellow have two sponsoring scientists?
4. Research.gov:
  - A. What is going on with the reporting systems? I can't file my annual report.
  - B. I can't be bothered learning a new system. Can I keep using FastLane?



# Division of Mathematical Sciences (DMS)

## Virtual Office Hour: Thank you

- For slides and recently asked questions, see <https://www.nsf.gov/mps/dms/presentations.jsp>
- Submit questions/suggestions to [DMS-VOH@nsf.gov](mailto:DMS-VOH@nsf.gov)
- Submit questions through event registration form
- For specific questions about your project, contact a Program Officer
- Next DMS VOH are Wednesday, October 13 at 2:30PM EDT
  - Topics include Life Sciences, Computational Mathematics, Smart Health, Tips for writing and reading reviews.
  - Questions can be submitted in advance on the registration form.
- Updates on future Virtual Office Hour topics will be announced [https://www.nsf.gov/events/index.jsp?org=NSF&event\\_type=12&orgToSearch=MPS&month=&year=2020](https://www.nsf.gov/events/index.jsp?org=NSF&event_type=12&orgToSearch=MPS&month=&year=2020)

