

Division of Mathematical Sciences (DMS)

Virtual Office Hour

Date: November 24, 2020

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

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



Division of Mathematical Sciences (DMS)

Virtual Office Hour

Welcome!

Program Directors in attendance today

- Juan C. Meza (Division Director)
- Pawel Hitczenko, Eun Heui Kim, Michelle Manes, Swatee Naik (RTG)
- Yuliya Gorb, Leland Jameson, Malgorzata Peszynska (Comp Math)
- Gabor Szekely, Edsel A. Pena, Huixia (Judy) Wang, Yong Zeng (Statistics)
- Moderators: Michelle Manes, Malgorzata Peszynska, Christopher Stark

Subscribe to DMSNEWS:

Send email to 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



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Questions during VOH:

- Submit your questions via the Q&A box.
 - Questions can be submitted anonymously.
 - We will focus on questions of interest to a wide audience. For specific questions about a particular project, contact a cognizant Program Officer.
- For recently asked questions/copy of slides, see <https://www.nsf.gov/mps/dms/presentations.jsp>
- Next DMS Virtual Office Hour: December 15, 11am ET
 - Topics include: DMREF, SaTC, and ATD programs.
 - Questions can be submitted in advance on the registration form.



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Virtual Office Hour Topics today:

- Overview of DMS operations and the impact of COVID-19.
- A brief description of the [Research Training Groups](#) (RTG) program, including some recent updates to the solicitation
 - https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5732
- Upcoming target date on December 1 for the program in [Computational Mathematics](#)
 - https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5390&org=DMS&from=home
- Upcoming proposal due date on December 15 for the program in [Statistics](#)
 - https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5556
- Q&A



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Opportunities and upcoming deadlines:

- Funding opportunities

<https://www.nsf.gov/funding/programs.jsp?org=DMS>

- Upcoming deadlines link

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

- Upcoming target dates

- [Computational Mathematics](#), Dec. 1, 2020
- [Mathematical Sciences Infrastructure Program](#), Dec. 15, 2020
- [Statistics](#), Dec. 15, 2020
- [Harnessing the Data Revolution \(HDR\): Institutes for Data-Intensive Research in Science and Engineering](#), Jan. 21
- [Designing Materials to Revolutionize and Engineer our Future \(DMREF\)](#) Jan. 25, 2021



DMS
UPDATE

NOVEMBER
2020

VIRTUAL OFFICE HOURS GOALS

BUDGET UPDATE

COVID-19 IMPACTS

DMS PROGRAM DEADLINES

MSPRF, GRADUATE STUDENTS

Division of Mathematical Sciences (DMS)

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Research Training Groups (RTG)

New Solicitation: NSF 20-608

<https://www.nsf.gov/pubs/2020/nsf20608/nsf20608.htm>

Program Webpage:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5732

FY 2021 Program Officers:

Pawel Hitczenko phitczen@nsf.gov

Eun Heui Kim eukim@nsf.gov

Michelle Manes mmanes@nsf.gov

Swatee Naik snaik@nsf.gov

Program Goal: increase the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences, be they in academia, government, or industry.

Full proposal deadline: June 1, 2021

Another RTG VOH presentation will be held prior to the deadline!



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RTG: program highlights

- Three- to five-year awards, up to \$500K/year.
- Bulk of funds expected to provide stipends for student and postdoc trainees. Funded trainees have citizenship requirements.
- Limited faculty salary. Can include travel, conference, consultant support.
- **Vertical integration:** undergraduate research, graduate traineeships, 3-yr post-doc positions. Integration of research, education, professional development.
- **Detailed plans:** Recruitment & retention, management, assessment.
- Post-RTG sustainability plan.

New solicitation: <https://www.nsf.gov/pubs/2020/nsf20608/nsf20608.htm>

- Graduate students: professional training including teaching **or** industry **or** lab.
- Post-doc Ph.D. year requirement is relaxed.
- Clarifies that all PAPPG requirements hold.



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Computational Mathematics Program

- **Website:** https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5390
- **Program Directors (PDs):**
 - Yuliya (Julia) Gorb: ygorb@nsf.gov
 - Leland (Lee) Jameson: lameson@nsf.gov
 - Malgorzata (Malgo) Peszynska: mpeszyns@nsf.gov
- **Submission Deadline: December 1, 2020 (apply to PD 16-1271)**
 - Submission Window: November 16 – December 1, 2020
 - Supports mathematical research in areas of science where computation plays a central and essential role, emphasizing analysis, development and implementation of numerical methods and algorithms
 - Follow Proposal and Awards Policies and Procedures Guide (PAPPG):
https://www.nsf.gov/pubs/policydocs/pappg20_1/nsf20_1.pdf

Division of Mathematical Sciences (DMS) Computational Mathematics Program (cd).

- **Website:**

- https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5390

- CM PDs generally avoid commenting on “white papers”
 - Instead: please, please, use public award search engine to determine which projects CM has recently supported
- In view of the pandemic,
 - If you plan to submit a CONFERENCE proposal, please, contact PDs to discuss
 - Same holds for supplements, AGEP, INTERN, etc.
- We are always happy to chat with our PIs on Zoom.

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Statistics Program

Statistics program supports:

- research in statistical theory and methods, including research in statistical methods applicable to any domain of science and engineering
- conferences and workshops

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5556&org=DMS&from=home

Program Officers:

Gabor Szekely gszekely@nsf.gov

Edsel A. Pena epena@nsf.gov

Huixia (Judy) Wang huiwang@nsf.gov

Yong Zeng yzeng@nsf.gov

Nandini Kannan nakannan@nsf.gov (on leave)

Full Proposal Window: December 1-15, 2020



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Virtual Office Hour: some questions from registration

A. COVID-19 related questions on the following topics:

- A. What is the impact of COVID-19 on DMS budget?
- B. What are the possibilities of flexibility on target dates for grant submission?
- C. What is the impact/expectations regarding travel/conference/REUs ?

B. RTG:

- A. Is it better to plan an RTG project within one research group or more than one?
- B. Does the minority school such as HSI have more advantages in applying for RTG program?
- C. Should an RTG project have a PI/co-PI from Mathematical Science department?

C. Computational Mathematics

- A. Is CM program available for RUI applicants?

D. Other

- A. As a first time grant applicant - what are the most important things to do?
- B. Is the program on Optics and Photonics active?
- C. Which programs of NSF supports research in scientific machine learning?



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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
- Submit questions through event registration form
- For specific questions about your project, contact a Program Officer
- For future Virtual Office Hour topics, see https://www.nsf.gov/events/index.jsp?org=NSF&event_type=12&orgToSearch=MPS&month=&year=2020
- Next DMS Virtual Office Hour: December 15, 11am ET
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