NSF Funding Opportunities: Statistics, Mathematics, and Data Science

September 25, 2020

Huixia Judy Wang
Program Officer Division of Mathematical Sciences
National Science Foundation

DIRECTORATE

MPS

MATHEMATICAL AND PHYSICAL SCIENCES

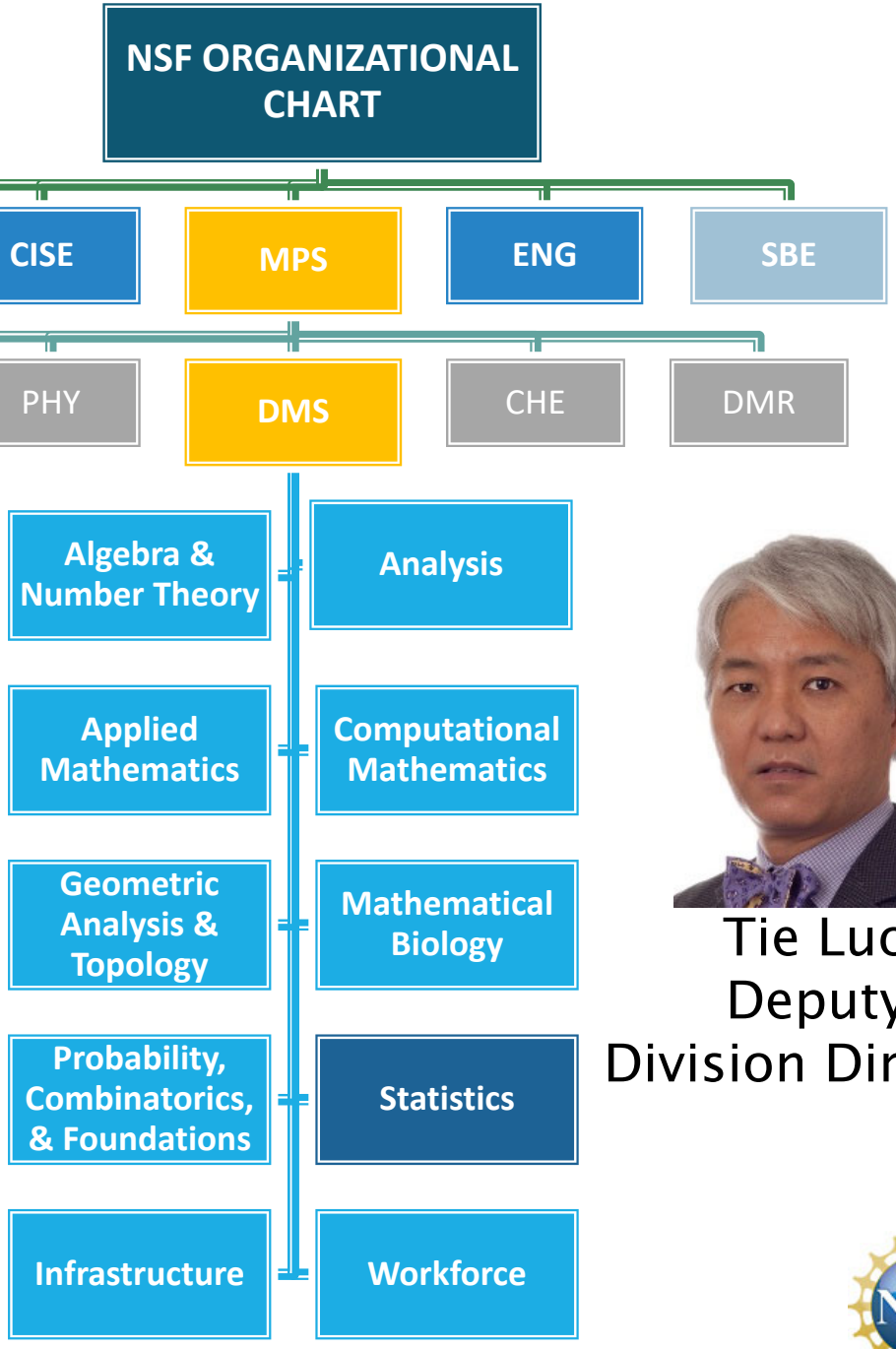
DIVISION

DMS

DIVISION OF MATHEMATICAL SCIENCES

PROGRAM

Juan C. Meza
Division Director



Tie Luo
Deputy Division Director

Statistics Program Officers

Nandini Kannan (On Leave)

Edsel Pena (rotator)

Gabor Szekely (permanent)

Huixia Judy Wang (rotator)

Yong Zeng (rotator)

Research Programs

- Faculty Early Career Development Program (CAREER)
  - Deadline: July https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214
- Regular Statistics Program
  - Submission window: Dec 1-15, 2020
  - https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5556&org=DMS&from=home

- **DMS/NIGMS** (Interface of the Biological and Mathematical Sciences)
  - Solicitation: https://www.nsf.gov/pubs/2020/nsf20575/nsf20575.htm
  - September 1-18, 2020
- **CDS&E-MSS** (computational and massive-data challenges presented to scientific and engineering communities)
  - https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504687
  - September 1-15, 2020
- **ATD** (Algorithms for Threat Detection)
  - https://www.nsf.gov/pubs/2020/nsf20531/nsf20531.htm
  - February 17, 2021
- **MoDL** (NSF-Simons Research Collaborations on the Mathematical and Scientific Foundations of Deep Learning)
- **SenSE** (Multimodal Sensor Systems for Precision Health Enabled by Data Harnessing, Artificial Intelligence, and Learning)
- **More:** AMPS, FRGMS, TRIPODS, CRCNS, Smart & Connected Health, HDR
  https://www.nsf.gov/funding/programs.jsp?org=DMS

Training & Career Development

- **GRFP** (Graduate Research Fellowship Program)
  - https://www.nsf.gov/pubs/2018/nsf18573/nsf18573.pdf
  - October 25, 2019
- **MSPRF** (Mathematical Sciences Postdoctoral Research Fellowships)
  - https://www.nsf.gov/pubs/2016/nsf16558/nsf16558.pdf
  - October 31, 2019
- **MSGI** (NSF Mathematical Sciences Graduate Internship)
  - For math science doctoral students to participate in internships at federal national laboratories, industry and other approved facilities
  - https://orise.orau.gov/nsf-msgi
  - January 31
- **Others:** RTG (Research Training Groups in the Mathematical Sciences); REU (Research Experiences for Undergraduates) Sites

Community Resources

- Mathematical Sciences Institutes–A Community Resource (www.mathinstitutes.org)
- NSF TRIPODS Institutes: https://nsf-tripods.org/
  - Foundations of Data Science Institute
  - Institute for Foundations of Data Science
- NSF–SF MoDL centers
  - THEORINET
  - The Collaboration on the Theoretical Foundations of Deep Learning
- AI Institutes, e.g.
  - Institutes for Foundations of ML (UT Austin)
- HDR Institutes

Final Remarks

- Check the published abstracts on the NSF website: http://www.nsf.gov/awardsearch
- Volunteer as a reviewer! Email the PD or visit

  https://www.nsf.gov/additional-resources.jsp?org=DMS
- Talk to Program Officers
  - JSM: DMS Meet & Greet; Speed Coaching
  - DMS office hours (TBA)

QUESTIONS?

Huixia Judy Wang
Email: huiwang@nsf.gov
Tel: (703) 292 2279