IDIA Predoctoral Fellowship Program

https://idia.gmu.edu/predoctoral-fellowships/

IDIA Office Hours

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**About IDIA**

Three Themes

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**Technology**

New algorithms, digital techniques and technologies

Theme 1

**Systems**

Developing and deploying computing systems to advance fields as diverse as finance, education, national security, and social justice

Theme 2

**Digital Society**

Engaging in critical reflection that examines the implications of digital innovation ensuring social, ethical, political, and economic impact

Theme 3

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**IDIA Mission & Focus**

Engaging researchers, innovators, and scholars in cutting edge work to shape the future of our digital society while promoting equality, wellbeing, security, and prosperity.
IDIA Predoctoral Fellowship Program: Intent & Focus

- **Program Intent**
  - Instigate, support, and grow ambitious, convergent, interdisciplinary research that directly aligns with IDIA’s mission and focus
  - Position graduate students as the hub that connects diverse spokes permeating the various units and disciplinary expertise on campus
  - Strengthen IDIA research community and identity

- **Focus of this Program**
  - STUDENTS
Program Intent

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Note on FY25:

We encourage applications that explore use cases of generative AI and more broadly the intersection of digital innovation and critical emerging technologies.
IDIA Predoctoral Fellowship Program: Meet Previous Winners

**Cohort Model:**
[https://idia.gmu.edu/idia-predoctoral-fellows/](https://idia.gmu.edu/idia-predoctoral-fellows/)

**First Cohort of FY23**

- Jinyi Kim (Inf Sci & Tech)
  - A Multi-level Approach to Measuring Risks for Positive Youth Outcomes

- Soelem Aafnan Bhuiyan (Civil & Env Eng)
  - A Data Assimilation Technique to Improve the Monitoring and Forecasting of Coastal Hazards

- Facundo Nicolas Airaudo (Physics)
  - Optimal HVAC Outlay to Minimize Pathogen Transmission

- Michael Timothy Crawshaw (Computer Sci)
  - Guarantees in Distributed Deep Learning: Computation, Communication, & Sample Efficient Algorithms
IDIA Predoctoral Fellowship Program: Meet Previous Winners

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Second Cohort of FY24

Alonso Gabriel Ogueda (Mathematics)
A New Data-Driven Machine Learning Framework to Predict Dynamics of Infectious Diseases Incorporating Human Behavior in Epidemiological Models

Dibyendu Das (CSC)
Memory: Leveraging Past Experiences to Accelerate Future Motion Planning

Erika P De Los Santos (Psychology)
Human-AI Cooperative System to Detect Automated Deepfake Deception
IDIA Predoctoral Fellowship Program: Eligibility

- **Who Can Apply**
  - Full-time Mason Ph.D. and Master students

- **Preparatory Work**
  - Student applicants are encouraged to reach out to and form an interdisciplinary team of faculty mentors across the Mason ecosystem

- **How to Apply**
  - The application template (and other submission information) can be found at:  
    [https://idia.gmu.edu/predoctoral-fellowships/](https://idia.gmu.edu/predoctoral-fellowships/)

**Application Deadline:**
May 06, 2024, 11:59 PM EDT
IDIA predoctoral fellows will be an integral part of the IDIA community. As such, they will have the opportunity to:

- **Community building**: take part in community-building events with other IDIA fellows and faculty
- **Collaboration**: collaborate with other fellows to organize and support IDIA-sponsored events, such as seminars, panels, workshops, and tutorials
- **Networking**: connect with IDIA’s rich network of academic, government, think tank, and industry partners around digital innovation
- **Engagement**: engage with Mason Innovation Exchange and Mason Enterprise
- **Celebration**: an end-of-year ‘Come Meet our Fellows’ meeting will celebrate and disseminate the achievements of the IDIA predoctoral fellows
Fellowship award
- An IDIA predoctoral fellowship includes AY GRA stipend, tuition, and healthcare
  - Stipend amount will be consistent with the guidelines of the unit where the student resides

Fellowship Duration
- Up to three years
- Renewed on an annual basis contingent upon a favorable internal review of the annual report and availability of funds

Numbers of Fellowships
- Up to three for FY 25 contingent upon quality of submissions
IDIA Predoctoral Fellowship Program: Other Information

- **Review Process**
  - Awards will be made on a competitive basis
  - Applications will be reviewed by interdisciplinary senior researchers and faculty

- **For Other Information**
  - [https://idia.gmu.edu/predoctoral-fellowships/](https://idia.gmu.edu/predoctoral-fellowships/)

- **Questions formulated after these office hours**
  - Email: [idia2@gmu.edu](mailto:idia2@gmu.edu)

We now welcome any questions
What do the community-building events look like?

What does the interaction with the MIX & MEC look like?

How are fellows engaging industry and think tanks?

Community-building events: we think of them as "check-ins" and envision three events; one at the beginning, so fellows meet one another, one in the middle to learn of what is working, what is not working (good information for us), and one at the end of the year.

MIX & MEC: We see a great opportunity to position fellows as the next innovators and entrepreneurs. So, we envision a light, tiered, customizable educational experience we will design in partnership with MIX & MEC.

External engagement: IDIA regularly organizes panels, workshops, tutorials that bring external partners and faculty together. We will give the opportunity to fellows to connect with these partners at these events. They can introduce speakers, moderate sessions, and even help us put the programs together. We do want their input and their voice.
How quickly will decisions be made?

- Applications in: May 06th
- Panel reviewed by mid June
- Goal: notifications to students the last week of June
- Fellowship offers signed by mid August