



## THE WEEKLY

Dear Colleagues,

Join Research Development for National Security and the Institute for Digital Innovation for a roundtable discussion on the DoD MURI call on Wednesday, March 30 from 1 to 2 p.m. Kammy Sanghera, IDIA executive director, and Mike Bunting, director of Research Development for National Security, will host a discussion on the call and all faculty who have questions about the RFP and want to discuss teaming strategies are invited to attend.

The DoD MURI call is active now. White papers are due May 16 and full proposals are due September 9. To learn more, visit [grants.gov](#) and search for the following:

Fiscal Year (FY) 2023 Department of Defense Multidisciplinary Research Program of the University Research Initiative (MURI)

Air Force Office of Scientific Research [EOA-AFRI-AFOSR-2022-0003](#)

Department of the Army – Materiel Command [W911NF-22-S-0007](#)

Office of Naval Research [N00014-22-S-F002](#)

Join the roundtable discussion on March 30: [Zoom link](#).

## RESEARCH SPOTLIGHT

Dr. Akila-Ka Ma'at (publishing as Jennifer R. Warren) holds joint positions in the Department of Communication, Women and Gender Studies, and the African and African American Studies program at George Mason University. She is the founder and director of the Black Interdisciplinary Research Translating and Transforming Health (BIRTH) Lab, which "ultimately seeks the genesis of dynamic collaborative and innovative research that contributes to reducing disease among diverse Black women across the nation."



Click [here](#) to learn more about Ma'at and the BIRTH Lab.

## UPCOMING EVENTS

### East Coast Optimization Meeting 2022



ECOM: Building Research Networks in Optimization

2022 Theme: Nonsmooth Optimization

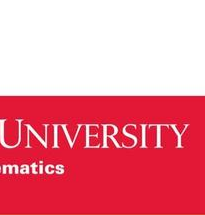
Keynote Lectures • Public Lectures • Invited Talks • Contributed Talks

ORGANIZING COMMITTEE: Harbir Antil (George Mason University), Drew P. Kouri (Sandia National Laboratories), Denis Ridzal (Sandia National Laboratories), VIRTUALLY HOSTED BY: George Mason University, CONTACT: Harbir Antil, [hantil@gmu.edu](#)

REGISTRATION



<https://tinyurl.com/ECOM22>



### CMAI & MoD MATHWORKS Workshop



The Universities GMU (USA) and FAU (Germany) together with MathWorks are inviting you to two Workshops:

April 28<sup>th</sup> / 9 - 10:30 a.m.

**MATLAB**

[Register here](#)



April 29<sup>th</sup> / 9 – 11:00 a.m.

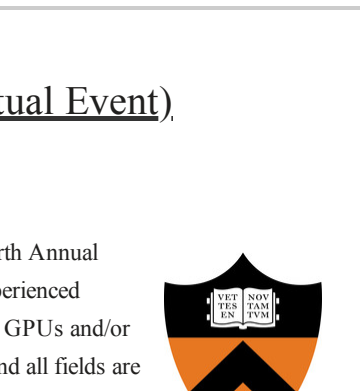
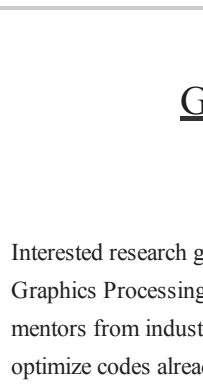
**DEEP LEARNING**

[Register here](#)

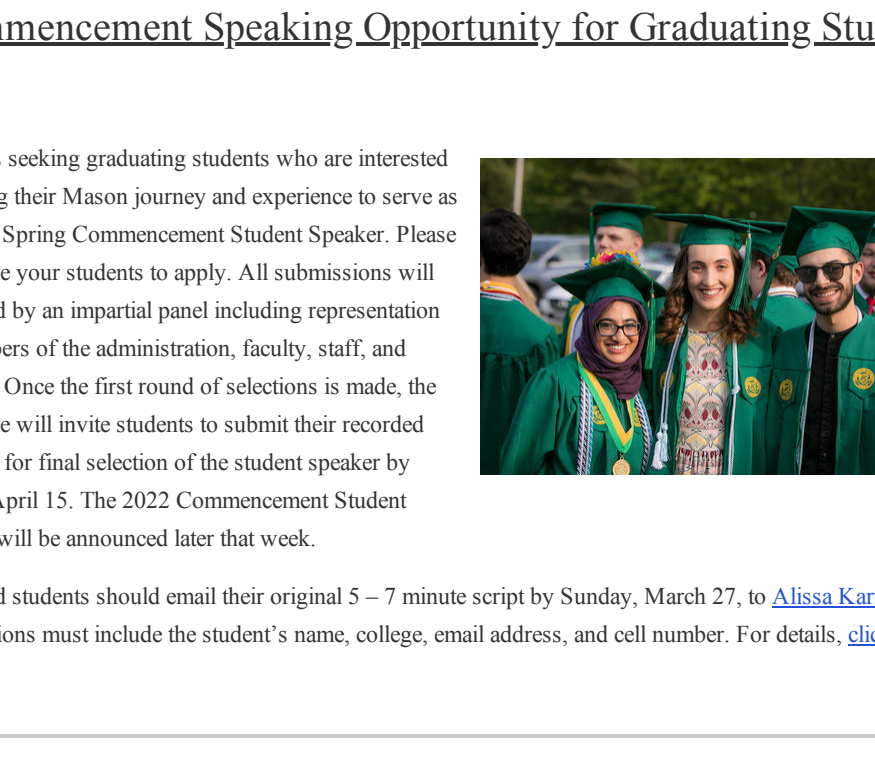


Who should register: Everyone !

Your MATLAB Portal



### Iowa - CMAI Nonlocal School Workshop



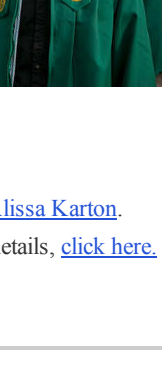
**MINI-COURSES LECTURERS**  
• **Ovidiu Savin** (Columbia)  
• **Mahmadi Warma** (George Mason)  
**INVITED SPEAKERS**  
• **Olena Burkovska** (Oak Ridge)  
• **Christian Glusa** (Sandia)  
• **Robert Lipton** (Louisiana State)  
• **Petronela Radu** (Nebraska-Lincoln)  
• **Armin Schikorra** (Pittsburgh)  
• **Mary Vaughan** (UT Austin)  
**ORGANIZING COMMITTEE**  
• **Harbir Antil** (George Mason)  
• **Paul Sacks** (Iowa State)  
• **Pablo Raut Singh** (Iowa State)

**REGISTRATION**  
There is no registration fee.  
Registration Deadline: May 1, 2022.  
**CONFERENCE WEBSITE**  
<https://publereuntings.github.io/NSFE2022.html>  
Contact: [nsfe@iastate.edu](mailto:nsfe@iastate.edu)



### GPU Hackathon at Princeton (Virtual Event)

Interested research groups can now apply to send a team to Princeton's Fourth Annual Graphics Processing Unit (GPU) Hackathon. Teams will be paired with experienced mentors from industry and national laboratories to help migrate their code to GPUs and/or optimize codes already running on GPUs. Prior experience is not required and all fields are welcome.



If you have GPU programming experience and do not plan to apply, you can also volunteer as a junior mentor and gain experience working with GPU experts. Please email [llge@princeton.edu](mailto:llge@princeton.edu) for more information.

Deadline: **April 13, 2022**

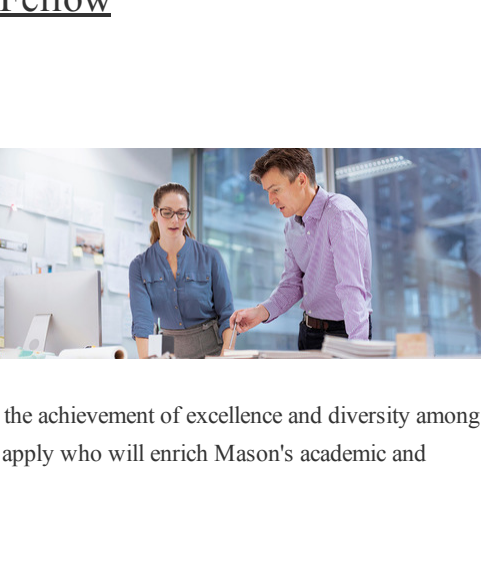
Event Dates: **June 1 (Prep Day); June 6-8 (Main Event)**

Learn more and apply [here](#).

## STUDENT OPPORTUNITIES

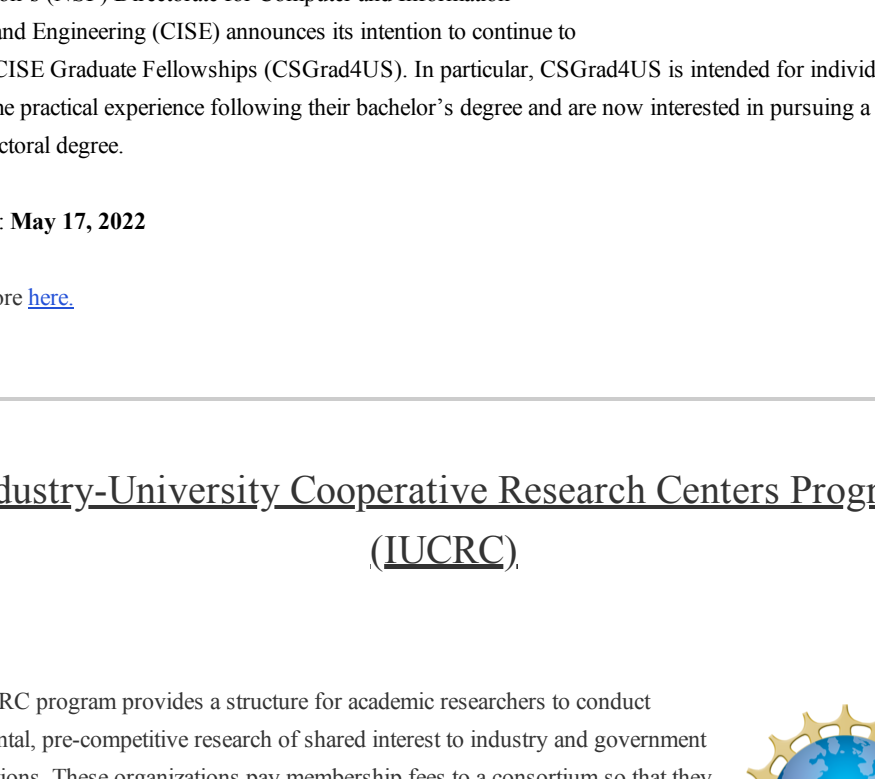
### Commencement Speaking Opportunity for Graduating Students

Mason is seeking graduating students who are interested in sharing their Mason journey and experience to serve as the 2022 Spring Commencement Student Speaker. Please encourage your students to apply. All submissions will be judged by an impartial panel including representation by members of the administration, faculty, staff, and students. Once the first round of selections is made, the committee will invite students to submit their recorded speeches for final selection of the student speaker by Friday, April 15. The 2022 Commencement Student Speaker will be announced later that week.



Interested students should email their original 5 – 7 minute script by Sunday, March 27, to [Alissa.Karton](mailto:Alissa.Karton). Submissions must include the student's name, college, email address, and cell number. For details, [click here](#).

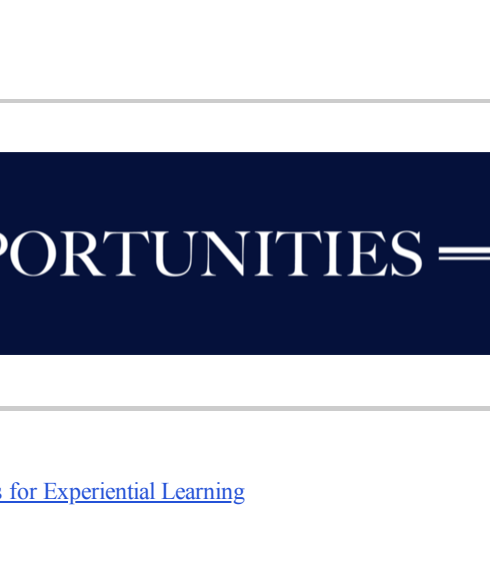
### Cypher Hackathon



## VARIOUS OPPORTUNITIES

### Center for Mathematics and Artificial Intelligence Postdoctoral Research Fellow

The George Mason University Center for Mathematics and Artificial Intelligence (CMAI) and Department of Mathematical Sciences invites well-qualified candidates to apply for a 12-month postdoctoral research fellow position. Just 20 miles from the nation's capital, Mason is uniquely positioned to enable collaborations with multiple academic institutions, government labs, and industries. Mason has a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff, and strongly encourages candidates to apply who will enrich Mason's academic and culturally inclusive environment.

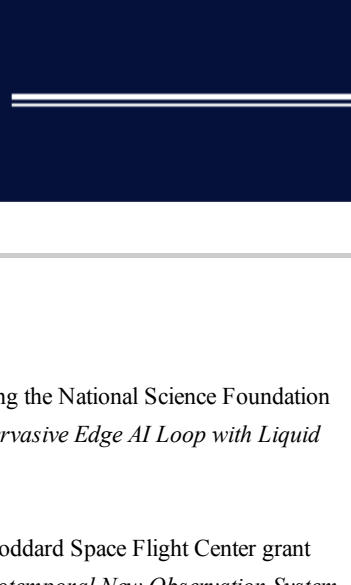


Deadline: **April 15, 2022**

Learn more [here](#).

### Computer and Information Science and Engineering Graduate Fellowships (CSGrad4US)

The computer and information science and engineering fields are experiencing booming undergraduate enrollments. Many of these undergraduate degree recipients have outstanding job opportunities in industry and at other organizations, and only a small fraction of these individuals considers pursuing related doctoral degree-granting programs. In order to increase the number of diverse, domestic graduate students in these areas and thereby bolster the U.S. population in the nation's computer and information science and engineering research and innovation workforce, the National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) announces its intention to continue to support CISE Graduate Fellowships (CSGrad4US). In particular, CSGrad4US is intended for individuals who have some practical experience following their bachelor's degree and are now interested in pursuing a research-based doctoral degree.



Deadline: **May 17, 2022**

Learn more [here](#).

### Industry-University Cooperative Research Centers Program (IUCRC)

The IUCRC program provides a structure for academic researchers to conduct fundamental, pre-competitive research of shared interest to industry and government organizations. These organizations pay membership fees to a consortium so that they can collectively envision and fund research, with at least 90% of member funds allocated to the direct costs of these shared research projects.



Deadline: **June 8, 2022**

Learn more [here](#).

### Dear Colleague Letter: Design for Sustainability in Computing

This recently issued Dear Colleague Letter (NSF 2022-60) Design for Sustainability in Computing encourages the submission of novel and high impact proposals that advance sustainability in all aspects of computing to the CISE Core programs (NSF 21-616). The DCL invites transformative, cross-disciplinary, and potentially clean slate approaches to enable sustainability across all levels of the entire computing stack from hardware to networking to software applications. Proposals should consider diverse notions of sustainability and propose suitable metrics for quantifying impact. Traditional energy efficiency and power savings methods alone are not in scope for this DCL. Computing techniques for sustainability in other fields are not in scope for this DCL. This DCL seeks ambitious and forward-thinking proposals on Design for Sustainability in Computing along multiple dimensions that go beyond energy efficiency.

Deadline: **May 19, 2022**

Learn more [here](#).

## FUNDING OPPORTUNITIES

[Commonwealth Cyber Initiative - Scalable Pilot Programs for Experiential Learning](#)

Deadline: April 1, 2022

[Commonwealth Cyber Initiative - Cyber Acceleration, Translation, and Advanced Prototyping for University Linked Technology \(C-ATAPULT\) Fund](#)

Deadline: April 18, 2022

[Department of Defense - In the Moment \(ITM\) HR001122S0031](#)

Deadline: May 17, 2022

[National Institutes of Health/DHHS - Academic-Industrial Partnerships for Translation of Technologies for Diagnosis and Treatment \(R01 - Clinical Trial Not Allowed\)](#)

Deadline: June 5, 2022

[National Science Foundation - Cyber-Physical Systems \(CPS\)](#)

Deadline: June 15, 2022

[Institute of Electrical and Electronics Engineers - IEEE Richard W. Hamming Medal](#)

Deadline: June 15, 2022

## AWARDS

**Congratulations to:**

- Chen, Xiang** from the [College of Engineering & Computing](#) for receiving the National Science Foundation (NSF) grant on *CAREER: "Adapt, Learn, Collaborate" – Closing the Pervasive Edge AI Loop with Liquid Intelligence*.
- Yang, Chaowei** from the [College of Science](#) for receiving the NASA-Goddard Space Flight Center grant on *Improving Ground-Level Air Quality Prediction by Integrating Spatiotemporal New Observation System Datasets and Numerical Simulations*.
- Satyal, Shobita** from the [College of Science](#) for receiving the National Science Foundation (NSF) grant on *NRAO Student Observing Support Award to Emma Schwartzman*.
- Purohit, Hemant** from the [College of Engineering & Computing](#) and co-PIs **Peterson, Matthew S.**, **Walther, Geraldine G.** and **Chung, Yoo S.** for receiving the Virginia Innovation Partnership Authority grant on *Characterizing Biases in Automated Scam Detection Tools for Social Media to Aid Individuals with Developmental Disabilities*.
- Shah, Vijay K.** from the [College of Engineering & Computing](#) for receiving the National Science Foundation (NSF) grant on *Collaborative Research: SWIFT: Context-Aware Spectrum Coexistence Design and Implementation in Satellite Bands (ASCENT)*.
- Cebal, Juan Raul** from the [College of Engineering & Computing](#) for receiving the U.S. Department of Health and Human Services (DHHS) grant on *Computational and Biological Approach to Flow Diversion*.

## IDIA AFFILIATION

Did you know that, as an IDIA faculty affiliate, you are eligible to:

- Compete for [internally funded IDIA projects](#)
- Serve as [IDIA Advisory Council members](#)
- Receive support for [IDIA relevant events](#)
- Get featured in our next weekly: [IDIA Weekly Spotlight](#)
- Become part of the [dynamic multidisciplinary faculty network](#) focused on digital techniques and technologies to advance fields as diverse as finance, education, built infrastructure, science, economics, agriculture, health, transportation, entertainment, national security, and social justice.
- There is no financial burden to you or your departments for affiliation with the institute. Participation in IDIA does not prevent its members from being associated with other university centers. If you are not already affiliated, we encourage you to submit your profile [here](#).

## SHARE WITH US

We are eager to hear from you! As we work with your colleges to compile updates on digital innovation-related research activities at Mason, we would love to hear about your research activities, awards, and recent publications. Please share any successes, concerns, or ideas with us at [idiaz@gmu.edu](mailto:idiaz@gmu.edu)



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