



THE WEEKLY

Greetings,

We would like to congratulate Dr. Louise Shelley for being invited to speak at the **Anticorruption Solutions Through Emerging Technologies Roundtable** next week by the Bureau of International Narcotics and Law Enforcement Affairs (INL) of the U.S. Department of State and Terrorist Financing and Financial Crimes (TFFC) of the U.S. Department of the Treasury, in partnership with AIR – Alliance for Innovative Regulation and the Accountability Lab.

Dr. Shelley is the director of the Terrorism, Transnational Crime and Corruption Center (TraCCC) that she founded and a professor in the Schair School of Policy and Government.

She will be speaking about the research and work the TraCCC has done, including its work with 3M and AI work on fentanyl, mirror trade in finding illicit trade and corruption and network analysis as well as what other work can be done.

The TraCCC has produced prize-winning research that has had a large impact on society. To learn more about Dr. Shelley and the TraCCC, visit Dr. Shelley's IDIA research spotlight [here](#).

Best of luck, Dr. Shelley!

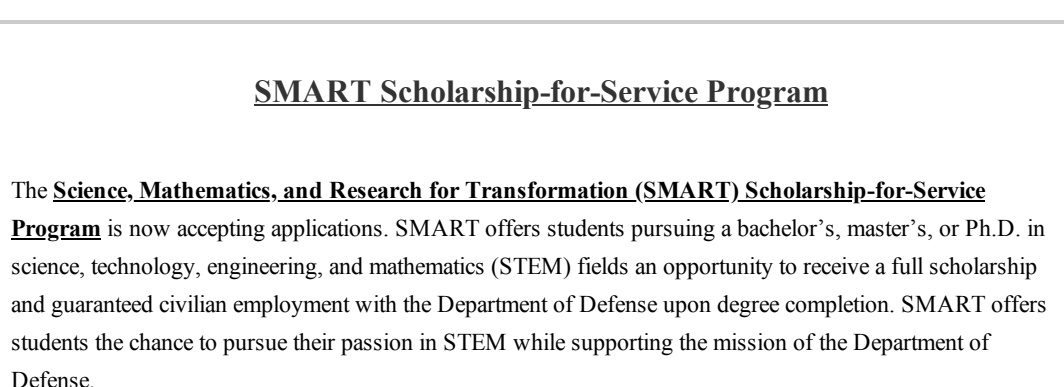
RESEARCH SPOTLIGHT



Viviana Maggioni, PhD, is an Associate Professor of [Environmental and Water Resources Engineering](#) at George Mason University. Her research interests lie at the intersection of hydrology and remote sensing and she is interested in "the application of remote sensing techniques to estimate and monitor hydrological variables."

Read more about Maggioni and her research [here](#).

UPCOMING EVENTS



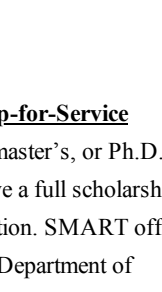
SAIL ALTERNATIVE BREAKS

Applications will be due November 1st for Spring and December 15th for Summer

SPRING TRIPS
2022 March 12-19th

SUMMER TRIPS
2022 May 22-31th

For more information visit:
<http://alternativebreak.gmu.edu>



Alternative Break Applications Due December 15th for Summer Trips!

Mason's Alternative Break (AB) programs are collaboratively designed by students, community organizations and staff to address social issues through education and direct service. Students emerge from these experiences transformed with new ideas, perspectives, and experiences that inspire active and engaged citizenship. Students work in partnership with host organizations on community-driven goals, focused on a particular social justice topic. Through exploration and immersion into the social issue long before the trip starts, students are able to interrogate the root causes of social issues in a way that allows them to engage compassionately and think critically. Upon their return, students are encouraged to engage in their own communities through informed, meaningful action.

SMART Scholarship-for-Service Program

The **Science, Mathematics, and Research for Transformation (SMART) Scholarship-for-Service Program** is now accepting applications. SMART offers students pursuing a bachelor's, master's, or Ph.D. in science, technology, engineering, and mathematics (STEM) an opportunity to receive a full scholarship and guaranteed civilian employment with the Department of Defense upon degree completion. SMART offers students the chance to pursue their passion in STEM while supporting the mission of the Department of Defense.

SMART Benefits:

- Full Scholarship
- Annual Stipend
- Internships
- Guaranteed Employment

Eligibility Requirements:

- Be a U.S. Citizen
- Be 18 years of age or older
- Minimum GPA of 3.0 on a 4.0 scale
- Be pursuing a bachelor's, master's, or Ph.D. in one of the [21 STEM fields](#).

Application deadline is December 1, 2021.

Students can view the [SMART videos](#) and visit smartscholarship.org to learn more.

DEAPSecure Workshop

We are excited to announce the first **DEAPSECURE** Virtual Fall Workshop for students and researchers across the Commonwealth of Virginia! This workshop is planned for Friday, November 19, 2021, from 1:00pm-5:00pm, using the Zoom video conferencing platform. You may learn more details and sign up for the workshop [here](#). There is no cost to participate!

DEAPSECURE is an NSF-funded training on computational techniques as applied to cybersecurity research. For this Fall workshop, we are going to cover materials taken from our Big Data Analytics & Machine Learning modules. Materials will be introduced at an introductory level. **DEAPSECURE** is a hands-on workshop, meaning that you will learn by doing the actual exercises on data analytics and machine learning. This program is open to any student and researcher with an interest in cybersecurity or high-performance computing techniques. No prior experience in big data or machine learning is necessary, but you must have basic computer programming experience.

Please sign up by **Friday, November 12**.

Survey disclosure: Assessment and participant's feedback is an integral part of this NSF-funded training program; we **require** that all participants fill out both the pre- and post-workshop surveys. By participating in this training, you agree to respond to our pre- and post-workshop surveys. Your individual responses will remain anonymous and confidential. We will use your collective responses and feedback to help us improve our lessons.

Should you have any questions or input regarding the workshop and/or the surveys, please let us know by email at deapsecure@odu.edu.



Growing the Quantum Workforce

The Quantum Education in Science and Technology (QuEST) Program at the JHU Applied Physics Laboratory with Dr. Gregory Quiroz.

Date: November 17, 2021

Time: 1:00-2:00 PM

Interested in helping to meet the exponentially growing demand for high-skilled quantum workers within the Mid-Atlantic and across the nation? Concerned that quantum is too hard or counter-intuitive for high school and undergraduate students to learn? Want more opportunities to connect your students with quantum research experiences?

Join Dr. Gregory Quiroz, Theoretical Physicist at the Johns Hopkins University Applied Physics Laboratory (JHU/APL) and co-chair of the MQA Computing & Simulation Workgroup, to learn about how the Quantum Education in Science and Technology (QuEST) program introduces high school and college interns to quantum information science (QIS) and enables them to participate in cutting-edge research projects. The QuEST program's mission is to facilitate the early development of knowledge and intuition in QIS without sacrificing principal technical elements of the field.

The talk will focus on: the importance of building earlier-stage quantum workforce development programs, the evolution of and lessons learned in the QuEST program, and opportunities for collaborating to expand the participation in and the impact of the QuEST program.

[Please RSVP here](#).

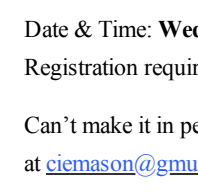


AWS Girls' Tech Day is free of charge and designed for girls and young women, ages 8-24.

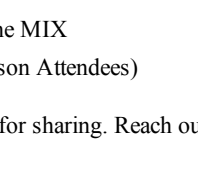
WEARABLES NOV 17 WORKSHOP & LUNCH 12PM

Are You Ready for the Wearables Revolution?

Join CIE, College of Science, and our partners as we begin a hands-on exploration of wearable technology for health, fitness, well-being and beyond.



Center for Innovation and Entrepreneurship



<http://go.gmu.edu/wearablesNOV17>

all welcome!
registration required
venue: horizon hall, MIX



Join CIE, College of Science, and our partners as we begin a hands-on exploration of wearable technology for health, fitness, well-being and beyond, with our exciting new Wearables Initiative that will have programming now and throughout the Spring 2022 semester!

Wearables Workshop & Lunch:

Date & Time: **Wednesday, November 17, 2021 – 12pm-1:30pm**, at the MIX

Registration required: [Eventbrite](#) (Lunch Included for Registered In-Person Attendees)

Can't make it in person? Join us on [Zoom](#). Please see the attached flyer for sharing. Reach out to us at ciemason@gmu.edu with any questions.

VARIOUS OPPORTUNITIES

Calling All Innovators!



Learn about innovation management and receive a seed stipend to support your work.

NSF I-Corps explores innovation using the business model canvas and lean startup concepts. Participants will use the customer discovery process to develop a repeatable business model for their innovative concepts.

Visit Mason's NSF I-Corps or contact ciemason@gmu.edu for more information.

Summer Team Impact Projects



STUDENTS AS SCHOLARS
oscar.gmu.edu

Summer Team Impact Projects tackle global questions and challenges within all three areas of Mason impact. Faculty present a question to a team of undergraduate students who work throughout the summer to create a solution and then present their findings, their action plan, or their prototype to the Mason community.

Faculty Information

Faculty will have the opportunity to work with colleagues and a team of undergraduate students on a question, challenge, or topic, of personal and professional interest. The undergraduate students can advance your current research, investigate a potential new research avenue, or work with a community-identified project. You are welcome to publish or present the results of this work (with the student's co-authorship) beyond Mason, and you'll receive a stipend for your efforts!

The Office of Undergraduate Education will meet with the accepted faculty in January to go over the program goals and student recruitment, and again in April to go over the summer timeline and share resources for a successful project.

The application deadline is December 3, 2021.

Visit [here](#) for more info.

FUNDING OPPORTUNITIES

[National Science Foundation - CISE Community Research Infrastructure \(CCRI\)](#)

Full Proposal Dates - January 11, 2022

[National Science Foundation - Expeditions in Computing \(Expeditions\)](#)

Preliminary Proposal Dates - June 16, 2022

Full Proposal Dates - February 16, 2023

[National Institutes of Health / DHHS - Exploratory Data Science Methods and Algorithm Development in Infectious and Immune-Mediated Diseases \(R21 Clinical Trial Not Allowed\)](#)

Full Proposal Dates - February 17, 2022

AWARDS

Congratulations to:

Dirmeyer, Paul A. from the [College of Science](#) for receiving the NASA-Goddard Space Flight Center grant on *Land-Boundary Layer Coupling Processes from Models and Observations*.

Johri, Aditya from the [College of Engineering & Computing](#) for receiving the Iowa State and US Department of Agriculture (USDA) grant on *AI Institute for Resilient Agriculture*.

Johri, Aditya from the [College of Engineering & Computing](#) for receiving the Computing Research Association and National Science Foundation grant on *Computing Innovation Fellows 2021 Project*.

Koizumi, Naoru from the [Schair School of Policy & Government](#) and Co-PI **El Amine, Hadi** and **Chen, Chun-Hung** for receiving the National Science Foundation grant on *Collaborative Research: SCH: Optimal Desensitization Protocol in Support of a Kidney Paired Donation (KPD) System*.

Lebovitz, Samuel from the [College of Humanities & Social Sciences](#) for receiving the National Endowment for the Humanities (NEH) grant on *The History of the Espionage Act*.

Mason, Linda Holly from the [College of Education & Human Development](#) for receiving the Virginia Department of Education and US Dept Of Education grant on *Technical Training and Assistance Center (TTAC) Early Childhood Special Education (Region 4)*.

Pudukotai Dinakar Rao, Sai Manoj from the [College of Engineering & Computing](#) for receiving the Virginia Innovation Partnership Authority grant on *User Behavior-Aware Real-Time Safety Enhancement in Vehicular Networks*.

Tian, Zhi from the [College of Engineering & Computing](#) and co-PI **Wang, Yue** for receiving the Virginia Innovation Partnership Authority grant on *Securing Multi-Access Edge Computing using Artificial Intelligence*.

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](#)

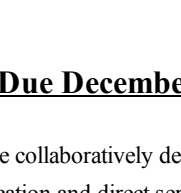
Receive support for [IDIA relevant events](#)

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.

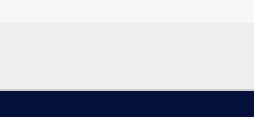
There is no financial burden to you or your departments for affiliation with the institute. Participation in IDIA does not prevent its members from being associated with other university centers. If you are not already affiliated, we encourage you to submit your profile [here](#).

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 ldiaz@gmu.edu



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