

# URA Honorary Awards

John Mester  
President, URA

FERMILAB 57<sup>th</sup> ANNUAL USERS MEETING  
June 27-30, 2023



## Universities Research Association (URA)

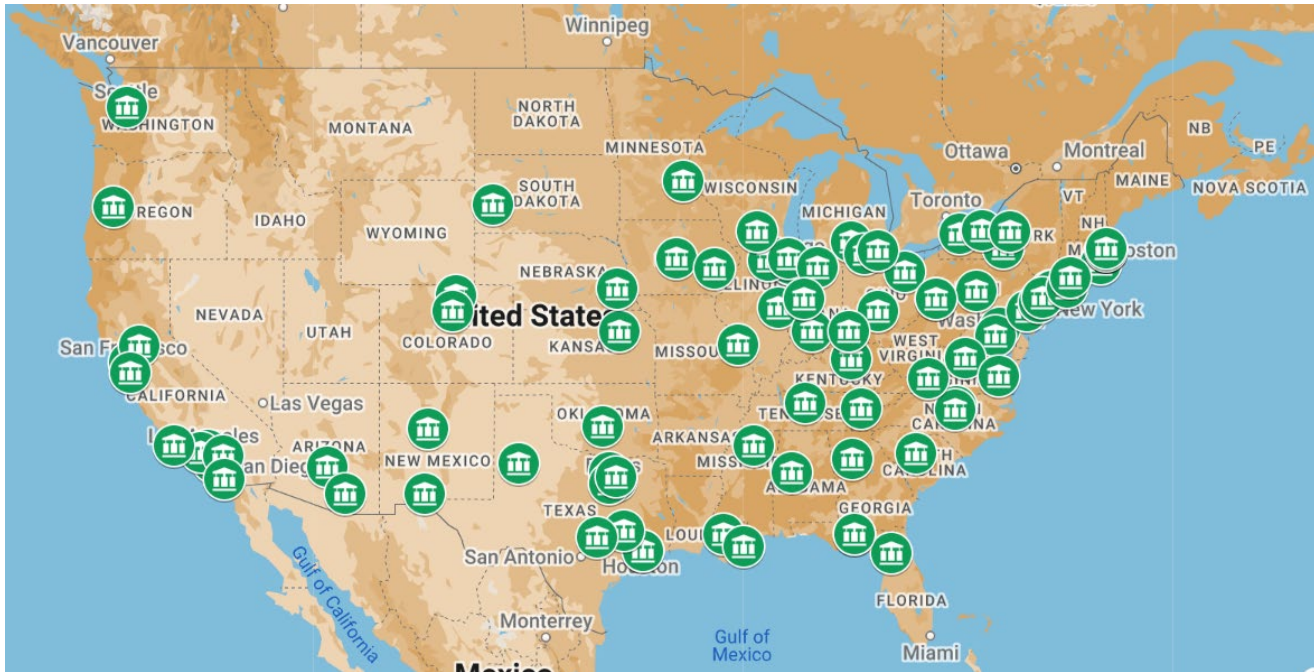
- Non-profit consortium of 94 leading research universities throughout the US and also in UK, Italy, and Japan
- Founded at the behest of the NAS to ensure the proposed National Accelerator Laboratory would have nation-wide representation in management and oversight
- URA built and managed Fermi and in 2007 joined with UChicago to form FRA so that Fermilab would have both a national and a strong regional presence

### The Mission of URA

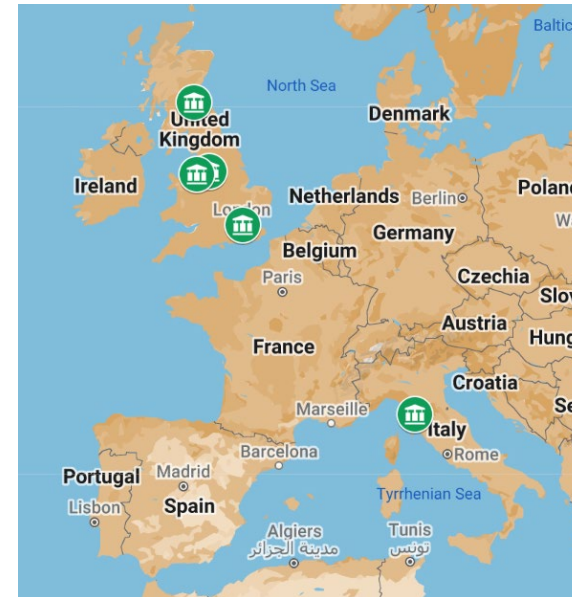
*Establish and operate unique laboratories and facilities for research, development, and education in the physical and biological sciences to expand the frontiers of knowledge, foster innovation, and promote the education of future generations of scientists.*



# URA as Membership Organization



United States of America

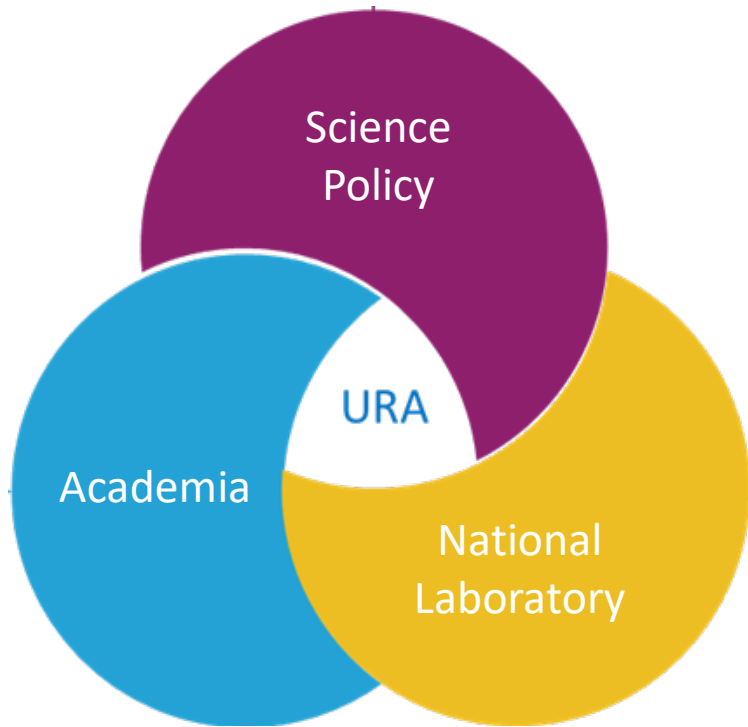


United Kingdom  
Italy



Japan

## Our Work



- *Liaison Partner* at the intersection of academia, national laboratories, and policy.
- Bring together our member institutions to support the creation of innovation clusters.
- Enable Inter-university consortia/alliances - partnerships between National Laboratories, universities, industry, State institutions, and Federal sponsors.

## High Energy Physics Community Visits Capitol Hill – March 20-23, 2023

U.S. High Energy Physics Community Scientists met with U.S. Congress members and administration officials to inform the importance of ongoing research activities at national facilities and voice the Community's needs for continued support.





# URA Awards at Fermilab

## URA Visiting Scholars Program

## URA-Fermilab Undergraduate Women in STEM Internship (Inaugural)

## URA Honorary Awards

- URA Early Career Award
- URA Doctoral Thesis Award
- URA Tollestrup Award for Postdoctoral Research
- URA Engineering Award (2023 New Award)

## URA Visiting Scholars Program (VSP)

- Established 2007, authorized through 2026
- Peer-reviewed awards for work at Fermilab by researchers from URA member universities

**84**

Member Institutions

---

Over 90% of URA's membership have engaged and contributed with expertise and capabilities to Fermilab's mission.

**\$ 7.1 Million**

Research Dollars Awarded

---

Since 2008, URA has funded outstanding work conducted by young scientists.

**570**

Researchers Funded

---

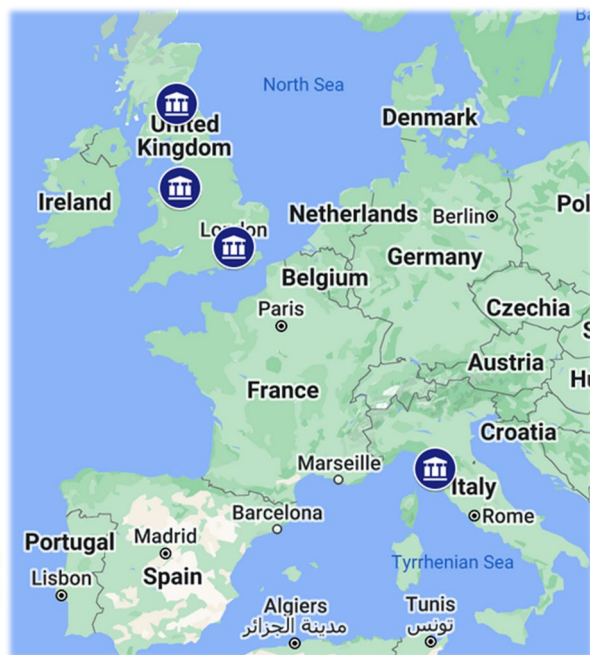
Faculty and Students have benefited from their involvement and contribution to research that is critical to the Laboratory.

<https://www.ura-hq.org/awards/visiting-scholars-program>

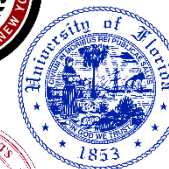
# VSP Spring 2023 Awards

20 Member Institutions contributed to a variety of programs and projects relevant to Fermilab's mission.

Total funding awarded: \$300 K  
# Awards: 25 (23 individual + 2 group awards)



UNIVERSITÀ DI PISA





# URA-Fermilab Undergraduate Women in STEM

Program Officer at Fermilab: Sandra Charles, Chief Equity, Diversity, Inclusion, and Accessibility Officer

**Loaiza Medina**  
University of Puerto Rico  
Industrial Engineering



**Victoria Nnaji**  
Purdue University  
Computer Information Science



**Sarah Marmolejos**  
Wake Forest University  
Electrical Engineering



**Ajeya Dison**  
Norfolk State University  
Chemistry



**Ariela Yashinsky**  
Michigan State University  
Mathematics

## Inaugural Internship 2023 Summer Cohort

Sponsored by URA, this program engages women science and engineering undergraduate students from under-represented groups to conduct Fermilab's mission-driven research.

Particle Physics

Accelerators

Applied Physics &  
Superconducting  
Technology

Computational  
Sciences

Emerging  
Technologies

# URA Honorary Awards

## ***URA Doctoral Thesis Award***

Honors the most outstanding doctoral thesis written on research conducted at Fermilab or in collaboration with Fermilab scientists.

## ***Tollestrup Award for Postdoctoral Research***

For outstanding work conducted by a postdoctoral researcher at Fermilab or in collaboration with Fermilab scientists.

## ***URA Early Career Award***

For outstanding work conducted by an early career researcher at Fermilab or benefiting the Fermilab Scientific program.

## ***URA Engineering Award***

Honors outstanding work in engineering that was conducted either at Fermilab or in collaboration with Fermilab.

Since 1997, URA has honored the remarkable research performed in fulfillment of Fermilab's mission.



Each awardee receives \$10,000 from URA and presents their work at the Fermilab Users Meeting.

<https://ura-hq.org/fellowships-awards/>

## Award Committees

### URA Early Career Award

---

Laura Fields, Notre Dame University, Chair  
Cecilia Gerber, University of Illinois Chicago  
Pedro Machado, Fermilab

### URA Tollestrup Award for Postdoctoral Research

---

Michael Mulhearn, UC Davis, Chair  
Jahred Adelman, Northern Illinois University  
Brenna Flaughner, Fermilab  
Andreas Kronfeld, Fermilab  
Matthew Touns, Fermilab

### URA Doctoral Thesis Award

---

Chris Stoughton, Fermilab, Chair  
Phil Adamson, Fermilab  
John Campbell, Fermilab

### URA Engineering Award

---

Jamieson T. Olsen, Fermilab, Chair  
Mayling L. Wong-Squires, Fermilab, Co-Chair  
Tug Arkan, Fermilab  
Gustavo Cancelo, Fermilab  
Matt Hollister, Fermilab



# 2023 URA Honorary Awards



## Presentations

# 2023 Tollestrup Award For Postdoctoral Research

(virtual)



## ***Marco Del Tutto***

*Fermi National Accelerator Laboratory*

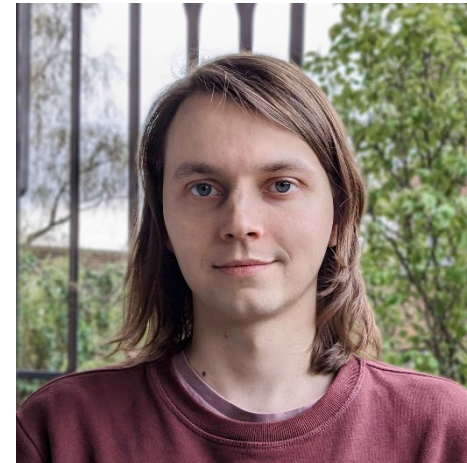
*“For innovative contributions to searches for new physics using liquid argon detectors.”*

# 2023 Doctoral Thesis Award

**Patrick J. Green**

*University of Manchester, UK*

*“For the thesis ‘Light and Dark in Liquid Argon Time Projection Chamber Neutrino Detectors’ submitted to the University of Manchester, which describes novel searches for Heavy Neutral Leptons and Heavy QCD-axions decaying to a muon-anti-muon pair using the ArgoNeuT liquid-argon detector and a powerful method to simulate scintillation light in large liquid-argon time projection chamber detectors.”*





## 2023 Early Career Award



### ***Jonathan Jarvis***

*Fermi National Accelerator Laboratory*

*“For outstanding leadership in the first demonstration of optical stochastic cooling, which was carried out at Fermilab’s Integrable Optics Test Accelerator (IOTA) storage ring and advanced the state-of-the-art bandwidth for stochastic cooling by more than three orders of magnitude.”*

## 2023 Engineering Award

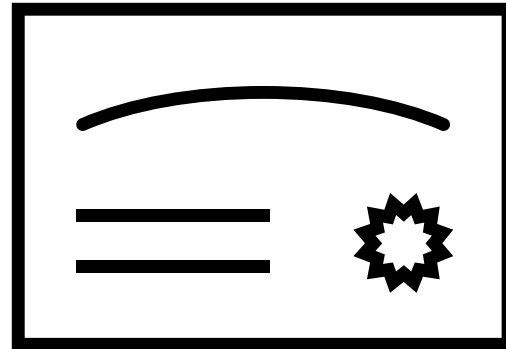
### ***Donato Passarelli***

*Fermi National Accelerator Laboratory*

*“For technical expertise, creativity, character, leadership, ability, and remarkable work on superconducting radio frequency cavities and cryomodules for the Proton Improvement Plan II (PIP-II) project.”*



## 2023 URA Honorary Awards



## Recognitions





*Thank you,*  
**URA**