



SIGMA XI
THE SCIENTIFIC RESEARCH HONOR SOCIETY

WCSU CHAPTER SIGMA XI

DECEMBER 6, 2022



SAVE THE DATE

MEETING

8-12 NOVEMBER 2023

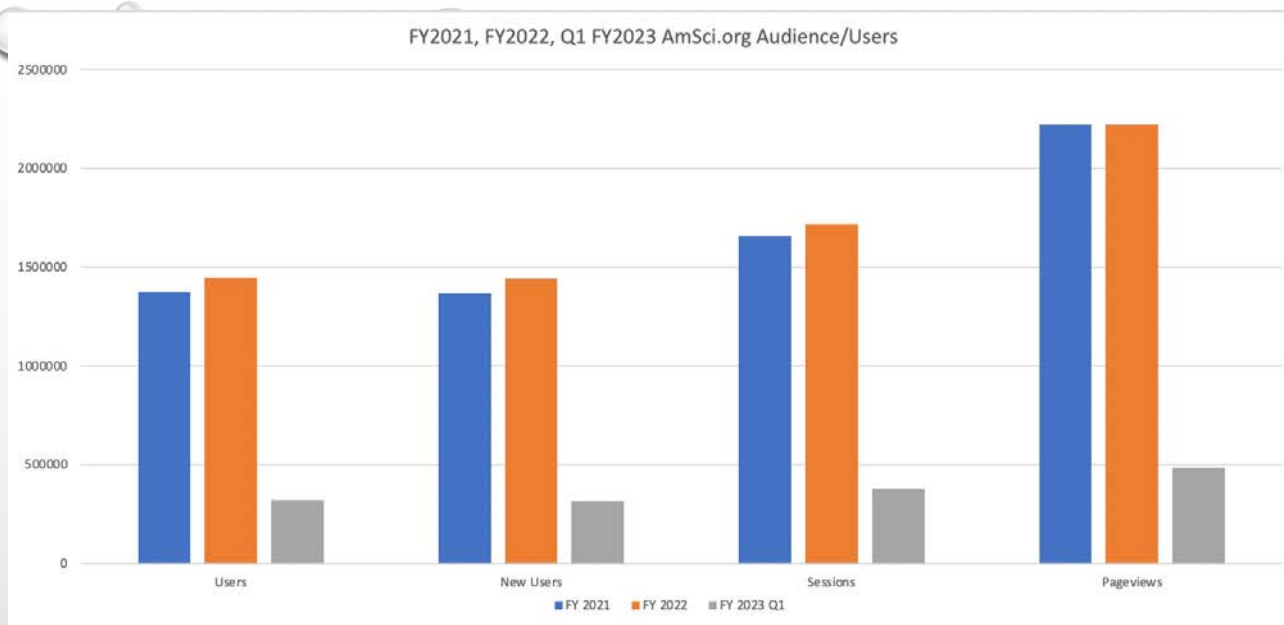
LONG BEACH CALIFORNIA

THEME- VISION FOR ETHICAL RESEARCH MODELS

SYMPOSIA AND IDEAS TO TAMARA POLES: TPOLES@SIGMAXI.ORG



Website Audience



Users of the *American Scientist* website started at 600,000 at relaunch in 2017.

Audience				
	Users	New Users	Sessions	Pageviews
FY 2021	1374561	1368803	1657437	2220591
FY 2022	1447864	1444888	1715900	2220378
FY 2023 Q1	321996	318745	377067	482774



SIGMA XI
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Programs Across Career Stages



High School

Research events, mentorship



Undergraduate Graduate

GIAR, research events, networking & mentorship



Doctoral Postdoctoral Early Career

Ethics, professional development, networking



Mid-Career Advanced Career

Leadership, awards, lectureships, mentorship



Emeritus

Awards
Fellows
Legacy



CHAPTER VALUE

- WHY SHOULD I JOIN AND PAY DUES?

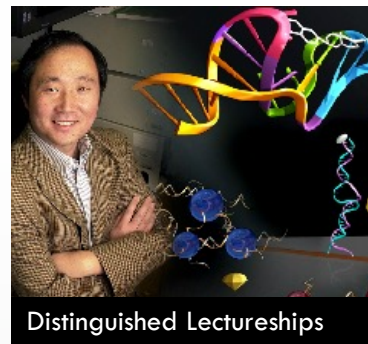
RESEARCH EXCELLENCE & MENTORING



HQ-administered Programs



Chapter Programs



Programs Across Themes

Events

- International Forum on Research Excellence and Student Summit
- Sigma Xience (Trainee) Bootcamp
- Pariser Global Lectureship
- Science and the public events
- Chapter Events

Professional Development, Science Communications & Policy

- Science Communication Bootcamp and #SciCommMake
- Leadership in Excellence Training
- Science Policy Bootcamp and Hackathon

Research Support & Recognition

- Grants in Aid of Research
- Administer Passion Projects
- Prizes and Awards
- Sigma Xi Team Science Bootcamp
- Happy – emotional support

Ethics and Scientific Integrity

- Curious Conversations and Virtues Training

STEM Education

- *American Scientist* for High Schools
- Science Curriculum Boot Camp

GIAR Centennial Celebration

Seeding the Next Generation of Researchers



GIAR Centennial Reception
AAAS Headquarters
November 4, 2022



**FACES
of GIAR**

Anne Xuan-Lan Nguyen

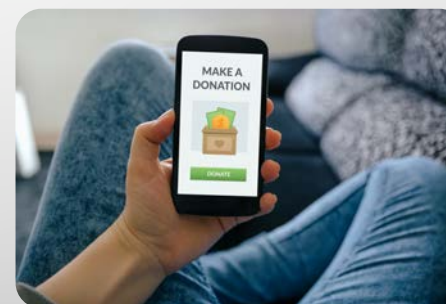
**\$5,000
2019–2020**



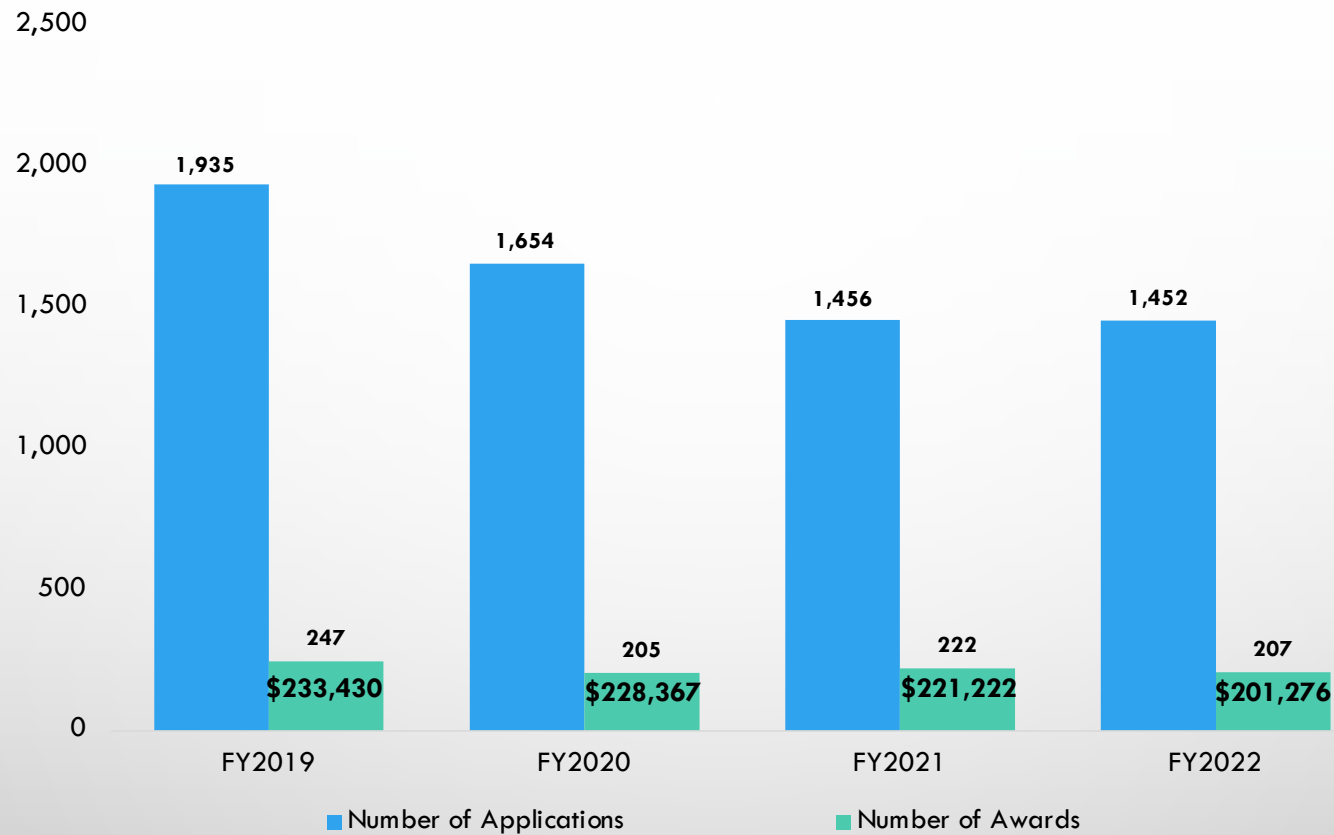


American Scientist:

- **Dedicated Sigma Xi Today**
- **Historical article on GIAR program**
- **Q&As with GIAR recipients**
- **Special ads about the GIAR program**



Grants in Aid of Research – FY2019-FY2022



Growing GIAR

- ✦ Ruby K. Worner Charitable Trust doubled funding from previous year to \$20,000
 - ✦ For underrepresented minorities
- ✦ Diabetes Research Institute \$5,000
- ✦ San Antonio Lighthouse for the Blind and Vision Impaired \$30,000
- ✦ Rudy Ruggles \$15,000 for interdisciplinary research
- ✦ Estate of Elenore Schewe \$55,555.55 final settlement to arrive later
- ✦ The Joseph E. Kist Revocable Trust: \$10,000
 - ✦ For women in computational science to be distributed through Sigma Xi chapters
- ✦ Anonymous gift: \$50,000
 - ✦ Origin of life and antibiotic resistance research



Ruby K. Worner
Charitable Trust

Summary of GIAR

- We have doubled the number of applications received from people who identify as Black/African American in 2022
- We have increased Hispanic applicants from 8.5% in 2019 to 9.3% in 2022, and more than doubled our multi-ethnic applicants from 4.4% in 2019 to 10.3% in 2022.
- We have increased the number of Black/African American recipients by 4.5%
- We doubled the number of Hispanic recipients, and increased Multi-Ethnic recipients from 1% to 5% in fiscal year 2022
- In FY2022, the number of applicants who did not provide demographic information was decreased by 4.5%, compared to the FY2016-2020 applicant pool. This is due to our diversity statement we have added to the application

Sigma Xi Awards



The Gold Key Award is the highest honor bestowed by Sigma Xi. It is presented to a member who has made extraordinary contributions to their profession and has fostered critical innovations to enhance the health of the research enterprise, to cultivate integrity in research, or to promote the public understanding of science, for the purpose of improving the human condition.



The Walston Chubb Award for Innovation is designed to honor and promote creativity among scientists and engineers.



The William Procter Prize is presented to a scientist who has made an outstanding contribution to scientific research and has demonstrated an ability to communicate this research to scientists in other disciplines.



The John P. McGovern Award is presented to individuals who have made outstanding contributions to science and the Society.



The George Bugliarello Prize is awarded to a superior interdisciplinary essay, review of research or analytical article published in *American Scientist* magazine.



The Young Investigator Award recognizes excellence in research in physical sciences and engineering, including mathematics, and life and social sciences.



The Evan Ferguson Award is presented in recognition of outstanding service to the Society and its mission.

2022 SIGMA XI FELLOWS



MARGARET AMSLER

University of Alabama at Birmingham



RICHARD BOUDREAUULT

McGill University



CLARK CANTZER

University of Missouri



LAWRENCE GETTLEMAN

University of Louisville



VIJAY KOWTHA

Membership-at-Large



LINDA H. MANTEL

Portland State University



JAY PASACHOFF

Williams College



GEORGE PERRY

University of Texas at San Antonio



JUNE PILCHER

Clemson University



HARJIT AHLUWALIA

University of New Mexico



SIGMA XI
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Sigma Xi Awards Committee
and the Executive Committee
have selected a new slate of
Award recipients



Congratulations

to the 2022 Sigma Xi
Award Winners!

Catch them at **IFoRE '22**



Bruce Alberts
Gold Key Award

Presented annually, the Sigma Xi Awards recognize outstanding achievement in science and engineering, service to the Society, innovation, and promotion of the public understanding of science for the purpose of improving the human condition.



Rena Bizios
Procter Prize



Greeshma Gadikota
Young Investigator Award



Ge Wang
Chubb Award



Chad Mirkin
McGovern Award



Wendy Zukerman
Honorary Membership



Kelly Crowe
Mantel Award



Subrata Saha
Ferguson Award

Student Research Showcase

Engages High school, undergraduate, and graduate researchers



Communicating
for online
scientific &
broader
audiences



Cohort 4: Public Health

Applications Received: 32

Accepted Applications: 26

Matchmaking: November 7, 2022

Awards: \$6,000



ASSOCIATION OF
SCIENCE COMMUNICATORS

Grants for Chapter Programming

Sigma Xi offers chapters many opportunities to achieve the Sigma Xi mission through the awarding of chapter grants and/or teacher stipend.

[Science, Math and Engineering Education \(SMEE\) Grant](#) \$2,000 (Deadline: March 1 Annually)

[Diversity Grant](#) \$1,000 (Deadline: March 1 Annually)

[Distinguished Lecturer Subsidy](#) (Deadline: March 1 Annually)

[Multi-Chapter Grant Program](#) \$1,000 (Deadline: March 1 Annually)

[Teacher Recognition Subsidy](#)

Established in 1937
Annual cohort of 15-20 lecturers
Events subsidized across the chapters network
Sponsored lectureships – American Meteorological Society



Science Policy Boot Camp

July 26-29, 2022

SIGMA XI
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**BURROUGHS
WELLCOME
FUND**

Sea Grant
North Carolina

Science Policy Bootcamp 2022
Day ●●●●

July 26-29
Raleigh, NC

Cultural Differences Between Research and Policy Settings



Jean Goodwin
Professor of History and Technical Communication
NC State University

Science Policy Bootcamp 2022
Day ●●●●

July 26-29
Raleigh, NC

Introduction to North Carolina State Government



Chris Cooper
Professor of Political Science and Public Affairs
Western Carolina University

Science Policy Bootcamp 2022
Day ●●●●

July 26-29
Raleigh, NC

Policy on Tap:
A first hand look at the pop the cap campaign with Fullsteam



Sean Wilson
Chief Executive Officer
Fullsteam Brewery

Science Policy Boot Camp 2022
Day ●●●●

July 26-29
Raleigh, NC

NC STEM Policy Fellowship Host Offices
Exploring the breath of science policy in North Carolina



Jen Wilcox
Executive Director
North Carolina Science Policy Fellowship



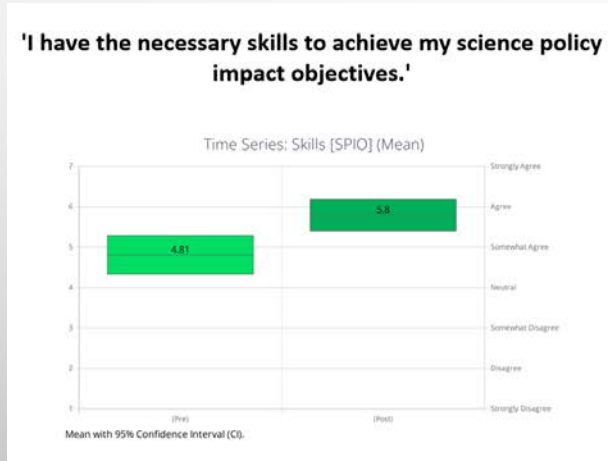
David Kaiter
Executive Director
North Carolina Science Policy Fellowship



Heather Bridges
Executive Director
North Carolina Science Policy Fellowship



Kristin Brinkman
Executive Director
North Carolina Science Policy Fellowship



Video: <https://review.bencopro.com/review/c5c6df4781b9aa69e0b143d3896f2b9f/>



Sigma Xi

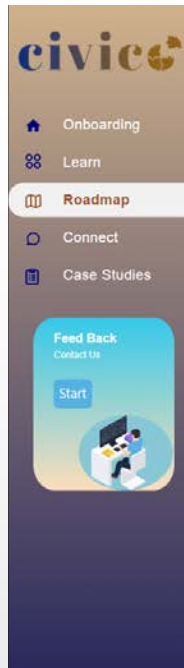
Civic Science Fellow

Andrew George

Supported by The Rita Allen Foundation

Developing a **digital platform** to foster effective, sustainable collaborations between scientists and policymakers to address the needs of communities in North Carolina and beyond





Identifying a Policy Opportunity

The policy process usually starts with a problem that could have multiple solutions. Anyone, from pretty much anywhere can identify these issues and turn them into policy opportunities.



Find your way into state-level science policy.



What career stage are you at ... ?



Skip

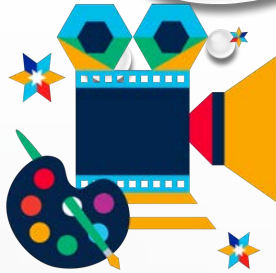


SIGMA XI
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AFFINITY GROUPS

- WOMEN IN SCIENCE
- PEOPLE OF COLOR
- INTERNATIONAL
- A PLACE FOR WOMEN TO FEEL WELCOME. WRITE TO MARIJA STROJNIK AND TELL HER YOUR THOUGHTS.
- SIGMA XI LOOKING FOR WAYS TO INCREASE DIVERSITY IN SCIENCE. WRITE TO RICHARD WATKINS AND TELL HIM YOUR THOUGHTS.
- IDEAS REGARDING SERVICES THAT THIS GROUP WOULD NEED.

SIGNATURE EVENTS



STEM ART &
FILM FESTIVAL



STUDENT SUMMIT



COLLEGE, GRADUATE
SCHOOL, & JOBS FAIR



ASSEMBLY OF DELEGATES

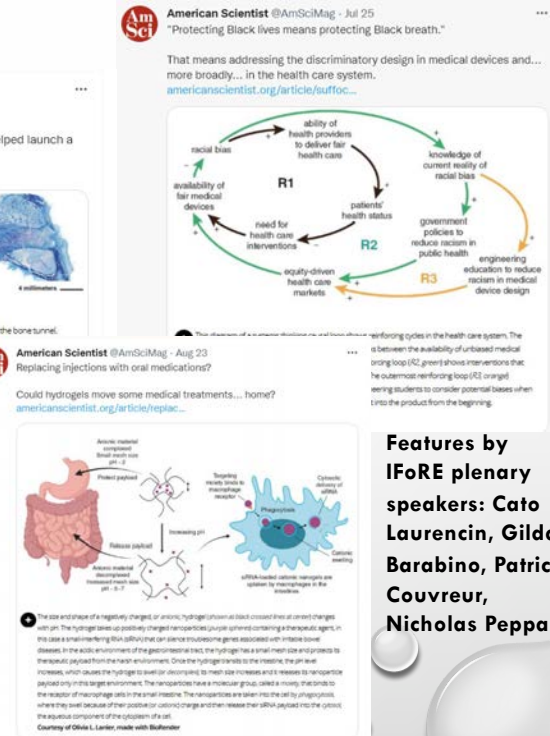
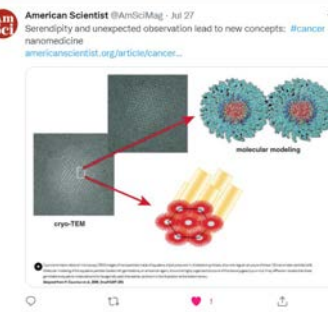
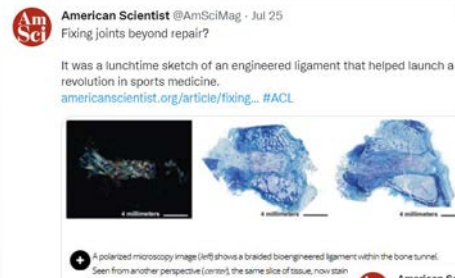


#SCICOMMSUNDAY



IFoRE
POWERED BY SIGMA XI

Single-topic Issue 2022



**Features by
IFoRE plenary
speakers: Cato
Laurencin, Gilda
Barabino, Patrick
Couvreur,
Nicholas Peppas**

American Scientist 2022 Volume



SIGMA XI
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NEW AWARDS



2022 Grand Award Winner

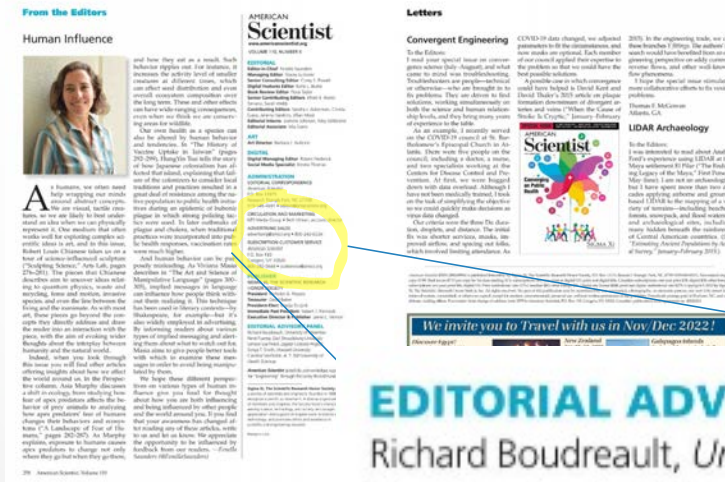
*Trustworthy Science, July-August 2021
Special Issue, American Scientist*
Sigma Xi, The Scientific Research Honor
Society
Research Triangle Park, NC



This year is the first year that *American Scientist* has been nominated for an award for a social media stream. It is also our first Neal Award, and our first Apex award in several years, both for the special issue on *Trustworthy Science*.

LAUNCH OF EDITORIAL ADVISORY PANEL

The Editorial Advisory Panel for *American Scientist* magazine is composed of Sigma Xi members from diverse fields of expertise who have agreed to advise the magazine on author invitations and other topics of importance in their fields.



EDITORIAL ADVISORY PANEL

Richard Boudreault, *University of Waterloo*
 René Fuanta, *East Stroudsburg University*
 Simson Garfinkel, *AI2050, Schmidt Futures*
 Sonya T. Smith, *Howard University*
 Caroline VanSickle, *A. T. Still University of Health Sciences*

Membership



NEW INITIATIVE

SIGMA XI SEEKS TO BUILD ON THE AUTHORS WITHOUT
BORDERS MODEL TO SERVE AS GRANT
ADMINISTRATOR FOR OUR MEMBER RESEARCHERS

MODEL ALLOWS MEMBER RESEARCHERS TO EXPLORE
PASSION PROJECTS THAT ALIGN WITH SIGMA XI'S
MISSION OUTSIDE THE CONFINES OF AN ACADEMIC
INSTITUTION

ADMINISTRATIVE FEE WILL COVER SIGMA XI STAFF
SUPPORT, ALLOWING FOR ADDITIONAL HIRING

Current:

NSF Grant to Authors
Without Borders

Exploring:

Civic Science project
with Dana Foundation

Wastewater grant
administration for UNC
Collaboratory