

Administrative Leadership Meeting

Randy Woodson Chancellor Tuesday, March 4, 2025

Next Meeting



2025 Meeting Dates

- July 15, 2025
- September 9, 2025
- November 11, 2025

Fall Admissions

- 36,000+ applications for early action deadline, over 49,000 total.
- Aiming to enroll 5,950 first-year students.
- Admitted students must confirm enrollment by May 1.





Faculty Success and Awards

 BOG Award for Excellence in Teaching

Sloan Research Fellow

Next Level Interdisciplinarity: Academies at NC State

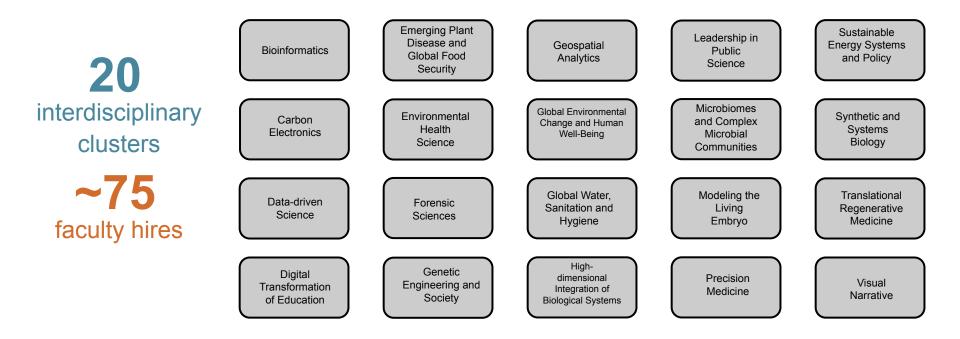
Rob Dunn, Senior Vice Provost for University Interdisciplinary Programs

Interdisciplinarity at NC State

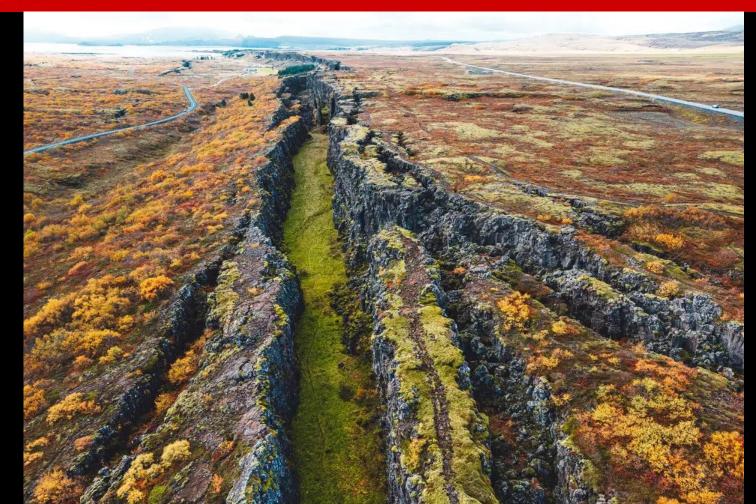


Installation by Tomás Saraceno

Chancellor's Faculty Excellence Program Clusters



Spanning Research Disciplines



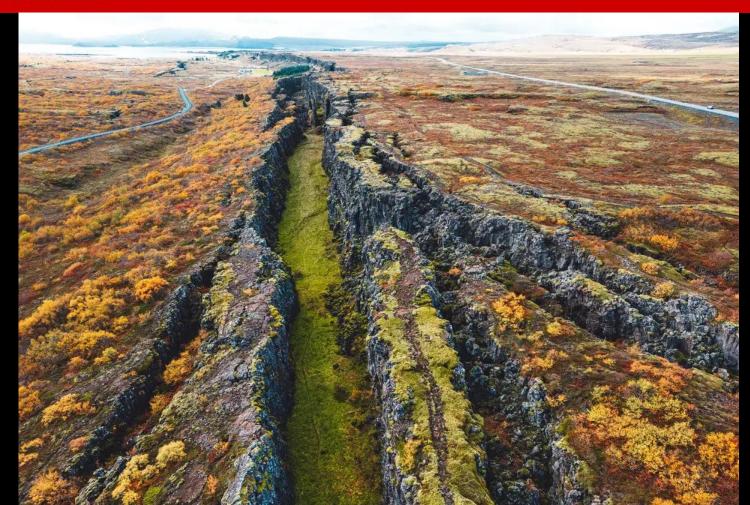
Chancellor's Faculty Excellence Program Clusters

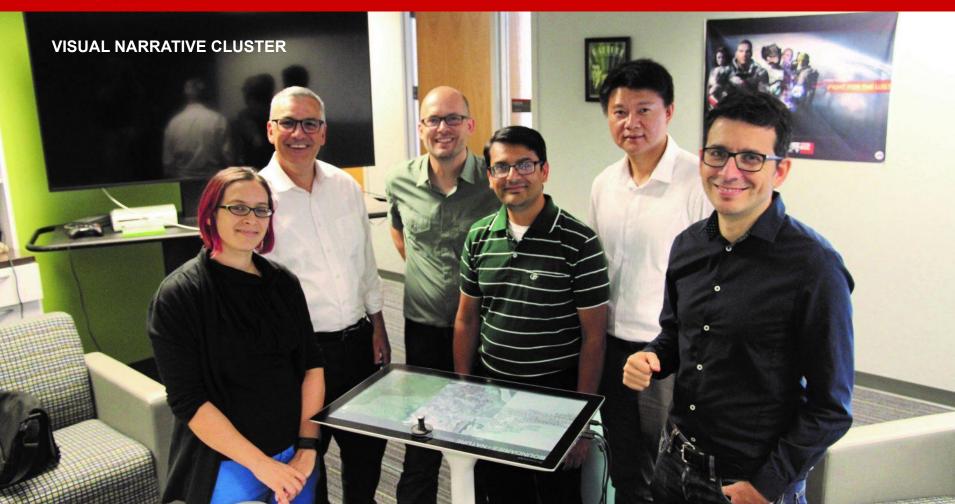
One of Woodson's earliest big swings at N.C. State put scholarship front and center. The program to recruit top professors to <u>interdisciplinary clusters</u> focused on realworld challenges, such as the digital transformation of education and creating sustainable energy systems, and has become a national model.







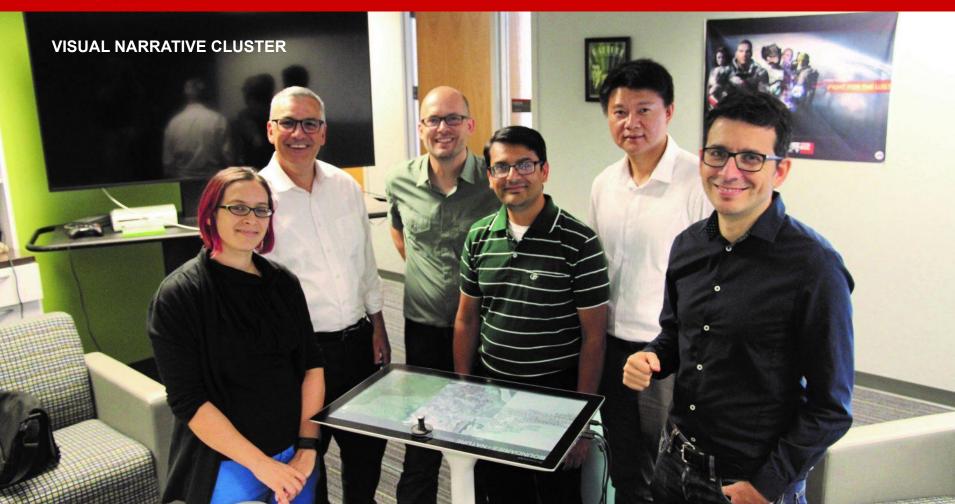






Associate Prof. Arnav Jhala, Computer Science





One of the Next Swings, The Academies





ACADEMIES

From Akedemus, the name of Plato's garden/grove.1

1-which, in turn, was named for the hero, Akedemus, who negotiated a resolution to a complex tragedy.

Academies: Interdisciplinarity Across the Mission



Education

- Undergraduate curriculum
- Graduate training



Research and Scholarship

- Addressing complex problems
- Creating interdisciplinary tools



Engagement

• Includes outreach, extension, translation and tech transfer

Academies in a sentence...

They represent areas of **signature capabilities*** of the institution that transcend the missions and span the colleges.

*Thanks to Alyson Wilson for this bit of language

Academies in two sentences...

They represent areas of **signature capabilities*** of the institution that transcend the missions and span the colleges.

They are centered on helping to better the lives of the people of NC and beyond in light of the wicked problems and wondrous opportunities of our time.

Academies in three sentences...

They represent areas of **signature capabilities*** of the institution that transcend the missions and span the colleges.

They are centered on helping to better the lives of the people of NC and beyond in light of the wicked problems and wondrous opportunities of our time.

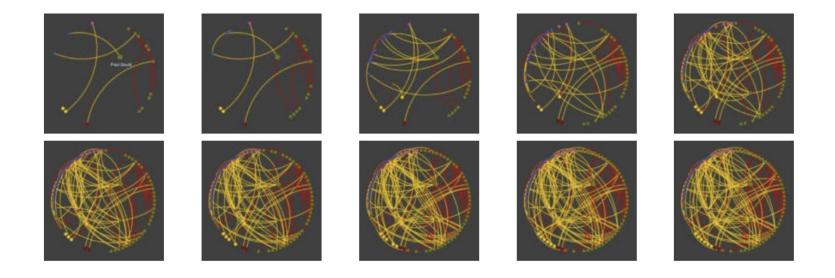
They are centered on students, the ideas of students, the needs of students and the ability of students to be agents of extraordinary positive change.

*Thanks to Alyson Wilson for this bit of language

Data-Driven Science

Our models, tools, and analytics help researchers and industry experts use their data to solve problems.





Now to the leaders

NC State Data Science and AI Academy

Mission: Support NC State's growth as a Data Science and AI University.



First Generation and TRIO students Omry Brewster, Ap. Math BS '23; IAA MS '24 and Sophia Ma, Bus. Admin. BS, Int'l Relations BA '23; IAA MS '24

Located in D.H. Hill Library, the Data Science and AI Academy collaborates with campus partners to offer:



COURSES, CREDENTIALS & INTERNSHIPS



ALL CAMPUS EVENTS



PARTNERSHIPS & CUSTOMIZED TRAINING



ANALYTICS CONSULTING



PROPOSAL SUPPORT & SEED GRANTS



CS30: INTRODUCTION TO DATA SCIENCE (Middle/High School)

Events network academia, government, and industry:

DATA SCIENCE AND AI WEEK @ NC STATE

March 31 - April 4, 2025

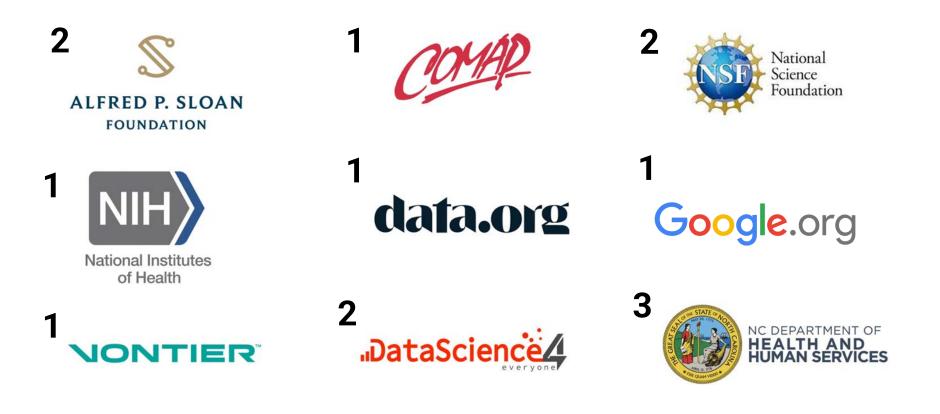








In 4 years, approximately \$4M in funding. 4 times double or triple funded!



Our students have many Data Science and AI Learning Pathways:



Dr. David Stokes, DSA Director of Education (advisor Dr. Hollylynne Lee, College of Ed)
Evan Dadson, Math and Stats '24
PhD student, Center for Geospatial Analytics **20** 1-credit classes each semester

DSA students from 150 programs, non-degree studies, 12 colleges

30 majors/concentrations

7 minors

5 certificates

3 graduate programs

Students sharing stories of NC State as a Data Science and AI University:







Ishita Pai Raiker, '25 Computer Engineering and minor in Philosophy Kenzo Hubert, '27 Statistics





Monthly panel series commencing August, 2024

Poster by moraodona.com



AI Advisory Group charged by:

- Provost Arden
- Vice Chancellor Hoit
- Vice Chancellor Maimone
- Interim Vice Chancellor Wilson

Building a campus-wide strategy for use of AI in:

- EDUCATION
- RESEARCH
- BUSINESS USE

Campus AI Web Hub coming soon!

We are a Data Science and AI University.

Genetics and Genomics Academy (GGA)

Mission — Integrate genetics and genomic research, education and outreach activities across campus to forge a more interdisciplinary understanding of the genetic and genomic underpinnings of life on earth in order to sustain global biodiversity and improve societal wellbeing.





Jeff Yoder Executive Director of the GGA



Genetics Program established

1951

Functional Genomics and Bioinformatics degree programs established

1999

Human Genome Project "completed"

2001



Genetic Engineering and Society Center formed

2013

HALF THE

Retreat

Genetics and

Genomics Initiative

established with

inaugural Faculty

CFEP: Genetic Engineering and Society

2011



GG Scholars program established

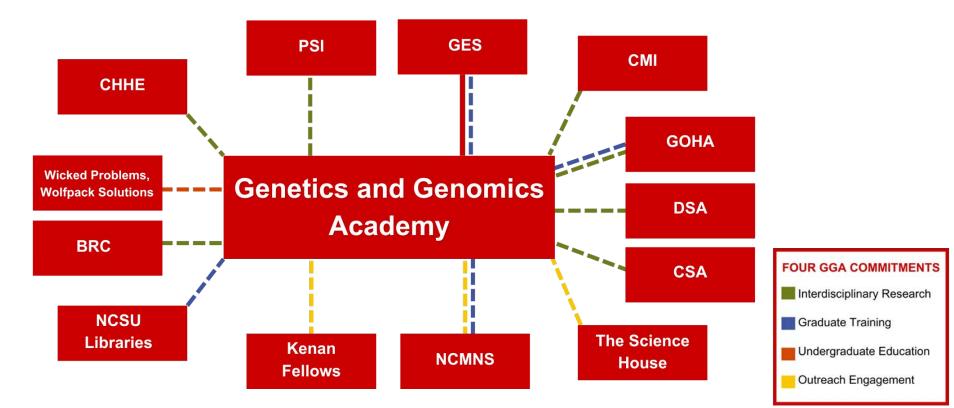
> Genetics and Genomics Academy established

2018 2020 2021

The Four Commitments



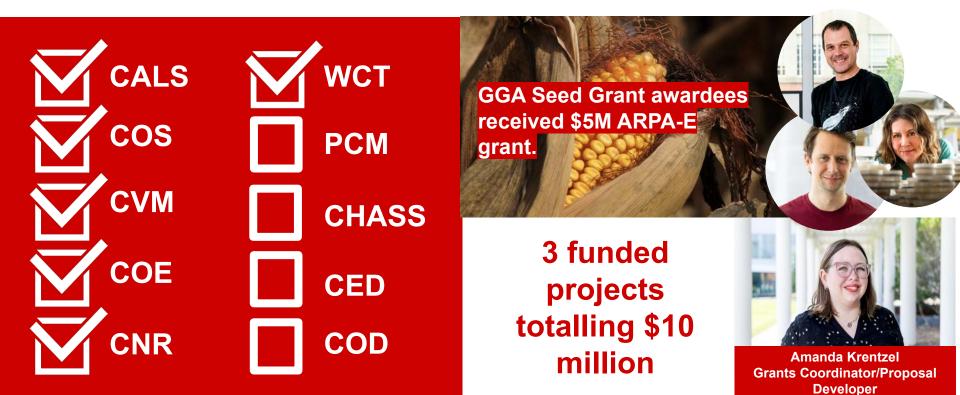
GGA Campus Connections



Interdisciplinary Research -Research Interest Groups (RIGs)



Interdisciplinary Research - Funding and PDU



The 2024 - 25 Genetics & Genomics Scholars Cohort



Anne Lindbergh



Sarah Jeffers



Jaylin Knight



Trip Brooks





Zach Zagon

Audrey Fahey

Ty Bradley

Erin Logan

Kassidy Robinson



Cameron Grey



Edeline Anthoniraj



Anuja Pimplapure

Tomo Adams





Alex Johnson

Jessica Ding

Shirley Jacquet



Zehta Glover





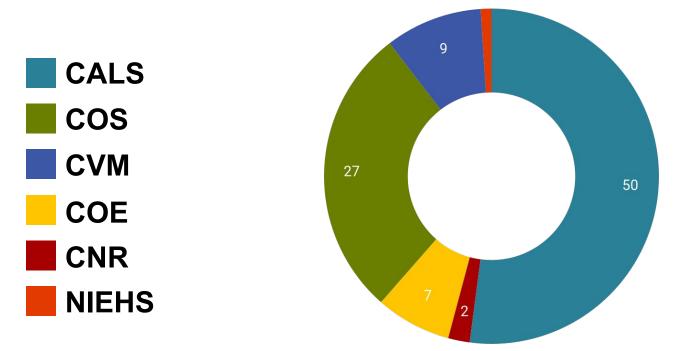
After completing her Ph.D. in Functional Genomics, Madison Moore went on to work in microbiology and bioinformatics at Novonesis.



Nicole Choquette, 2020-2021 Cohort

Nicole Choquette now works as a breeder at Benson Hill, an ag company in St. Louis MO having graduated with her Ph.D. in Crop Science.

Graduate Training - GG Scholars, first-year program



GGS has trained 87 graduate students through the 1st year program over 5 years

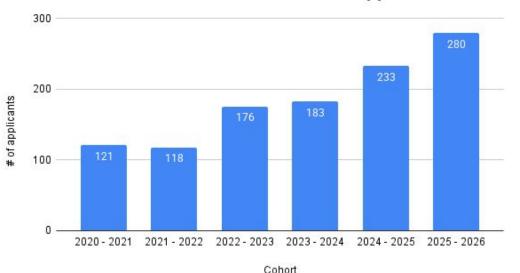
PIs from 19 different departments

GG Scholars



"I chose the GG Scholars program because of the emphasis on **professional development**. GGS is committed to making sure their students are **prepared for their chosen career**, and I believe the **hands-on**, **cohort-based training** will lead to success in my future endeavors."

Growth in number of GG Scholars applicants



GLOBAL ONE HEALTH ACADEMY

Engaging faculty, staff, undergraduate and graduate students in *improving the health of plants, animals, biodiversity, and human society* in North Carolina and beyond.





UNDERGRADUATE MINOR OF

GLOBAL ONE HEALTH

SPRING 2025 ENROLLMENT

48 students enrolled across 19 majors/6 colleges

15-credit program exploring the interconnections between **human**, **animal**, **plant**, and **environmental health**.



Kristen Sullivan

Director of Undergraduate Programs Global One Health Academy College of Veterinary Medicine



LEARN MORE



GO.NCSU.EDU/ GOH-MINOR



GLOBAL ONE HEALTH SCHOLARS PROGRAM

Developing undergraduate students into the next generation of One Health leaders

LEARN MORE GO.NCSU.EDU/GOH-SCHOLARS



2024-2025 COHORT

7 students across 5 majors



ABIGAIL FINCH College of Sciences



SASCHA GODFREY College of Sciences



CRISTINA PAYST College of Sciences



VALERIA RAYO-SOLANO College of Sciences College Humanities & Social Sciences



AVA SMITH College of Sciences



RIDA TARIQ College of Sciences



KARA VOLD College of Sciences

GLOBAL ONE HEALTH FELLOWS

Bringing together an interdisciplinary cohort of graduate students from across the university.

Through **courses**, **networking**, and opportunities for **professional development**, fellows broaden their knowledge in multiple domains of **One Health**.



Program Contacts



Michael Reiskind

Director of Graduate Programs Global One Health Academy College of Agriculture & Life Sciences



Meredith Spence Beaulieu Program Manager Global One Health Academy





2023-24 Cohort 83 applicants/8 Colleges



EMILY FLOESS College of Engineering Research: energy access and transitions in countries, and the intersection of WaSH & air pollution interventions



JADE LYONS Genetics & Genomics Research: genetic mechanisms controlling plant responses to environmental cues



CAITLIN NIVEN College of Natural Resources Research: impact of climate change on levels of fecal contamination and pathogen presence in water, soil, and food

2024-25 Cohort 63 applicants/10 Colleges



BENJAMIN CLARK College of Engineering Research: wastewater surveillance for pathogens, and antimicrobial resistance source tracking



ANDREA LANDAVERDE College of Sciences Research: impacts of contaminants and climate change on innate immune responses and disease in stony corals



HOLLY MCINNES College of Agriculture & Life Sciences Research: exploring tomato spotted wilt virus (TSWV) interactions with its hosts to understand disease dynamics



SAVANNA SMITH College of Engineering Research: applications of environmental biotechnology to improve global water and sanitation solutions



CHENXING XIE College of Humanities & Social Sciences Research: rhetoric of health and medicine, intercultural communication, technical communication



BRADLEY SCHOLTEN College of Sciences Research: understanding the spread of antibiotic resistant bacteria in songbirds



LYDIA SELLERS

College of Natural Resources **Research:** intersections of resilience education and environmental justice in diverse communities PROPOSED PROGRAM

MASTER OF SCIENCE IN GLOBAL ONE HEALTH

36 credit hours, non-thesis and thesis options available



supporting the **NC State University mission** by taking interdisciplinary approaches to emerging issues that connect **plant**, **animal**, **ecosystem**, and **human health**

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equipping students with the skills to translate **One Healt**h research into real-world action for societal benefit

2

producing the next generation of interdisciplinary global health leaders and scholars



Helen Chen Senior Vice Provost for Instructional Programs Executive Vice Chancellor and Provost



Peter Harries Dean Graduate School



Pierre Gremaud Associate Dean Graduate School

GRAND CHALLENGES ADDRESSING PROGRAM



Collaborating Center "Global One Health & Antimicrobial Resistance"

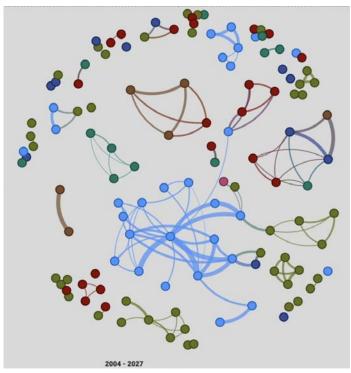
Addressing wicked problems that demand an interdisciplinary approach

Learn more go.ncsu.edu/gcap



GCAP Antimicrobial Resistance

Faculty Funded Grants



College	Count
College of Agriculture and Life Sciences	45
College of Veterinary Medicine	29
College of Engineering	22
College of Sciences	13
Wilson College of Textiles	12
College of Natural Resources	6
NC State Administration and Offices	1

Future GCAP

Coordinate efforts with ORI

Food & Water

Launching Fall 2025



Francis de los Reyes III College of Engineering CFEP Lead: Global Water, Sanitation and Hygiene



Anna Whitfield

College of Ag & LS CFEP Lead: Emerging Plant Disease and Global Food Security

LOCAL ENGAGEMENT SEED GRANTS

Enhancing walkability in rural NC counties

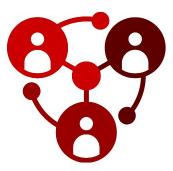
Engaging in microbiome stewardship through heirloom collard cultivation



AARON HIPP College of Natural Resources



MALLORY CHOUDOIR College of Ag & Life Sciences



A mobile produce market approach to address food insecurity in rural NC

Impacts of trace metal pollution and gene flow in the Cape Fear River Basin



ALEXANDRA DUFFY College of Sciences

Piloting coproduced resilience education system



KATHRYN STEVENSON College of Natural Resources



BASHEERAH ENAHORA College of Ag & Life Sciences

Duke

Tri & CEM

THE UNIVERSITY of NORTH CAROLINA

at CHAPEL HILL

Research Proposals Under Review

Collaborative Research: NRT: LEEP One Health: <u>L</u>everaging <u>E</u>volution, <u>E</u>cology, and <u>P</u>ublic Discourse within the One Health Framework

T32: Interdisciplinary Mentoring Program for Antimicrobial

Resistance Training (IMPART)



Global One Health Academy





National Institutes of Health



NC STATE

UNIVERSIT

Egypt-NC State Higher Education Partnership (ENHEP): Collaborating for Sustainable Futures in Food, Water, & Energy



Building Community

North America One Health Universities Network

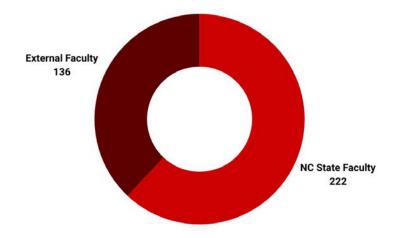
- 66 Universities (USA-55, Canada-8, Mexico-3)
- First meeting-CSU (August 2024)
- Next meeting NC State (July 31-Aug 1st, 2025)



GOHA Affiliate Membership

Global One Health Academy Affiliate Membership provides an opportunity for faculty, staff, and professionals to join a One Health-focused community of researchers and educators at NC State.

358 total members



CORE TEAM



Sid Thakur Executive Director



Meredith Spence Beaulieu Program Manager



Michael Reiskind Director of Graduate Programs



Kristen Sullivan Director of Undegraduate Programs



Kristen Fontana Program Specialist

EXECUTIVE LEADERSHIP



Debbie Acker Shelton Leadership Center



Celen Pasalar College of Design



Susan Barcinas College of Education



Jeff Pollack Poole College of Management



Jose Cisneros College of Ag & Life Sciences



Jen Runkle NC Institute for Climate Studies



Francis de los Reyes III College of Engineering



Anna Whitfield College of Ag & Life Sciences



Aaron Hipp College of Natural Resources



Qingshan Wei College of Engineering

Climate and Sustainability Academy at NC State

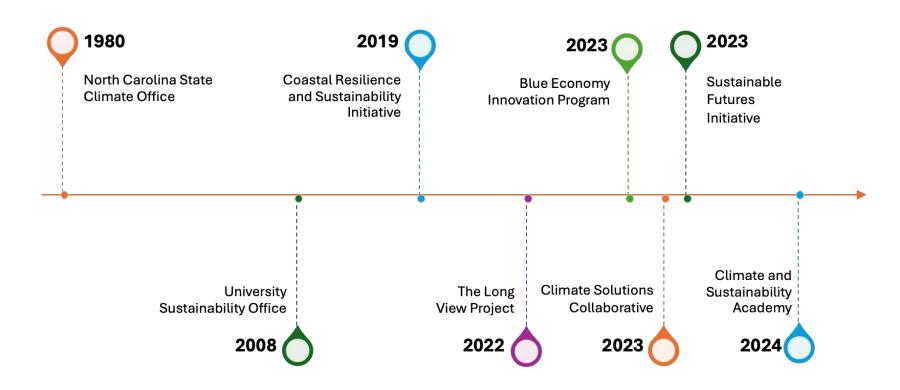
MISSION

Unite existing and emerging interdisciplinary research, teaching, engagement and operations efforts to promote sustainable and resilient solutions to climate change and other global challenges, connecting people and places to imagine and catalyze transformative change.

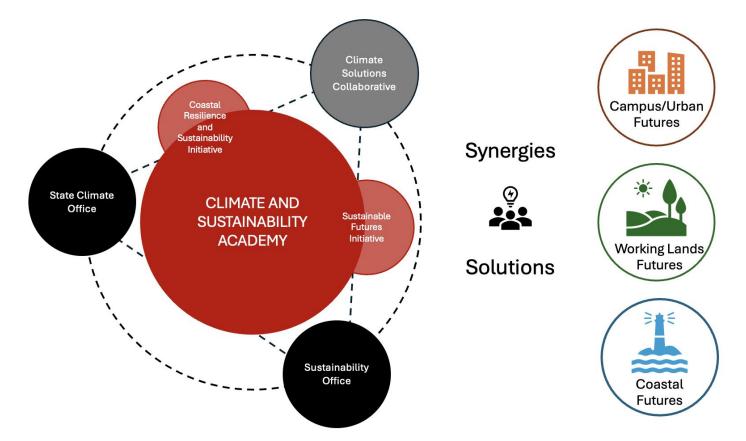
Erin Seekamp Executive Director

Christopher Galik Deputy Executive Director

Legacy

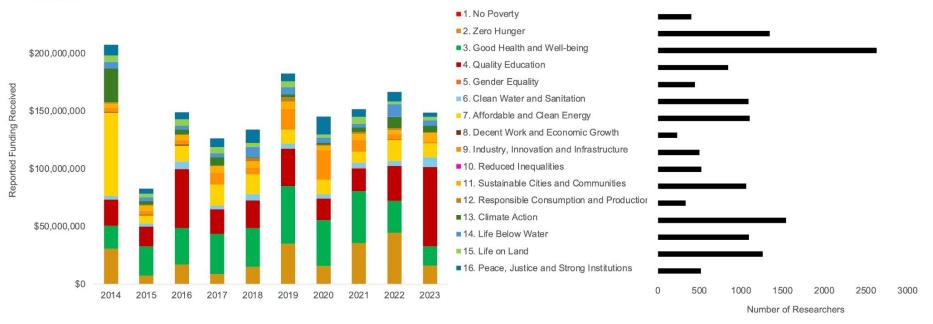


New Connections: Provost Arden and EVC Maimone



Sustainability-Related Funding & Scholarship

\$250,000,000



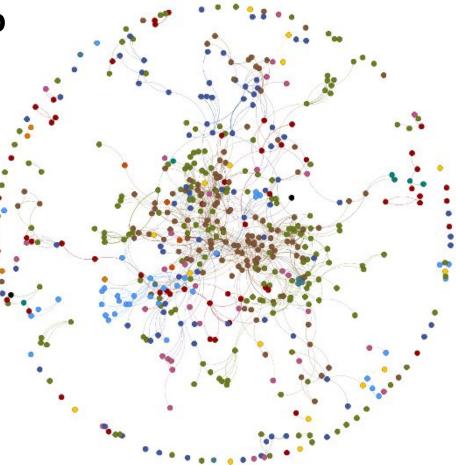
Search functionality courtesy of Jason Ronallo (Libraries)

Climate Change Scholarship Publications Network

College of Agriculture and Life Sciences
College of Design
College of Education
College of Engineering
College of Humanities and Social Sciences
Poole College of Management
College of Natural Resources
College of Sciences
Wilson College of Textiles
NC State Administration and Offices

College of Veterinary Medicine

Sanjana Ponnapalli (Campus as a Classroom) Jason Ronallo (Libraries)



Imagine and Implement (Think and Do)

Sustainable Futures Fellows



Creating Solutions for the Global Blue Economy



C-CRIT Program

Coordinators

AmeriCorps Assessment





bout Jones County Overview Assessing Vulnerability Hurricanes Bouncing Forward Read the Full Report

Evolving Structure Growing Capacities



#14 U.S.

2025 QS World University Rankings: Sustainability



Climate and Sustainability Academy Open House Monday, March 3, 9:00 - 11:30 a.m. Thursday, March 6, 9:00 - 11:30 a.m. Duke Energy Hall



Questions