Welcome!

I encourage you to complete this sentence in the chat:

Today I want to get ____________ out of this event, and right now I’m feeling ____________.
Who am I?

Yadéeh Sawyer, Ph. D.

UNIVERSITY OF MIAMI

THE UNIVERSITY OF NEW MEXICO
Ecology and Evolution

Phylogeographic structure in long-tailed voles (Rodentia: Arvicolinae) belies the complex Pleistocene history of isolation, divergence, and recolonization of Northwest North America’s fauna
Yadeeh E. Sawyer & Joseph A. Cook
Department of Biology and Museum of Southwestern Biology, University of New Mexico, MSC03 2020, Albuquerque, New Mexico 87131-0001

Journal of Biogeography (J. Biogeogr.) (2017)

Diversification of deermice (Rodentia: genus Peromyscus) at their northwestern range limit: genetic consequences of refugial and island isolation
Yadeeh E. Sawyer1, Melanie J. Hamme2, Thomas S. Jung3, Stephen O. MacDonald4 and Joseph A. Cook3

Living on the edge: Exploring the role of coastal refugia in the Alexander Archipelago of Alaska
Yadéeh E. Sawyer1 | Stephen O. MacDonald1 | Enrique P. Lessa2 | Joseph A. Cook1
Who am I?

- Location
- Subject area
- What YOU bring to the table
Field of Interest

- Homework
  - Subject or department
  - Who is working on what?
    - Connection to your interest
    - Publications
    - How are the lab dynamics?
  - Expand your search
    - Web search
    - UNM Schedule
- Have conversations. Use your network!
- Go to professors office hours

https://engineering.unm.edu/faculty/faculty-expertise/index.html

https://schedule.unm.edu
Found a Potential Research Lab/Mentor?

- Request a meeting
- Be patient
- Follow through
Professional Email Writing

- Tailor your email. Make it personal and specific.
- Meaningful subject line
- Appropriate greeting
- Introduce yourself
- Brief reason for the email
- Next steps
- Give them an “out” while being productive
- Thank you
- Professional signature
- PROOF READ
Prepare for Your Meeting

- Know their work
- How does this relate to your interest?
- What are your needs?
- Have notes ready
Live Meeting

• Be flexible and adaptable
• Pay attention to the time
• 1st live impression
• It’s ok to be nervous!
• Start on the right foot
• Elevator pitch
• Questions and conversation
• Mentoring style
• Next Steps/Close out
Follow Up

- ALWAYS
- Thank you
- Timely
Be Flexible

• No perfect match
Undergraduate Research Opportunity Conference

UResearch.unm.edu

VIRTUAL UROC
April 15, 2021

Abstract Workshop:
February 15, 12:00 pm
Abstract Submission Deadline:
February 28, 11:59 pm
Presentation Workshop:
March 9, 1:00 pm

Win a Book Scholarship!

See the AMAZING Student Research UNM students are doing

Review Poster and Oral Presentations to enter a drawing for a Book Scholarship

Get IDEAS for what YOU can do research on.
uresearch.unm.edu

No RSVP necessary, but sign up for email reminders at ess.unm.edu/events > April OR through succESS.unm.edu

Learn more at:
• Undergraduate Research (uresearch.unm.edu)
• Engineering Student Success Center • Events (ess.unm.edu/events • April)

Honors College | Engineering Student Success Center | and others @ uresearch.unm.edu
SOE Undergraduate Research Programs

- ESS Student Research Experience Program
- ESS Internship Programs
- SoE EPICS @ UNM Program
Cyber-Physical Systems

Summer Intensive Research Internship
Creating Technology to Help People

June 1–July 30
Summer 2021

Applications
Open: January 1, 2021
Deadline: February 15, 2021

Program Description

What
• Introduces students to cyber-physical systems (CPS)
• Promote inclusive academic research environments in CPS
• Encourage student participation in graduate programs or employment in CPS-related fields

Who
• Sophomores, juniors, and seniors interested in CPS-related fields and in diversity & inclusivity
• Underrepresented students are particularly encouraged to apply

Where
• Students will conduct research in pairs at Purdue University

Why
• Develop basic research skills
• Obtain exposure to state-of-the-art research and engineering facilities
• Acquire preparation for graduate school
• Learn about professional and research opportunities in CPS

Projects
• Learning for control for autonomous systems
• Measuring human trust in autonomous systems
• Deep learning for robotic navigation
• Psychophysiological sensing of human workload and attention
• Improving self-driving cars for older adults

Fields of Study
• Computer Science
• Mathematics
• Statistics
• Electrical Engineering
• Mechanical Engineering
• Aerospace Engineering
• Computer Engineering

For more information and to apply: autonomy.unm.edu
email: carolj@unm.edu
Info Session
Friday, January 29, 2021. 2:30 - 3:30 PM
via Zoom (meeting ID: 963 3392 3546)

Cyber-Physical Systems

Summer Intensive Research Internship
Creating Technology to Help People

June 1-July 30
Summer 2021

Applications
Open: January 1, 2021
Deadline: February 15, 2021

COMPETITIVE STIPEND • HOUSING & MEAL PLAN • TRAVEL ALLOWANCE

https://autonomy.unm.edu/siri/index.html
UNM Research Centers & Opportunities

https://engineering.unm.edu/research/research-centers.html

- NSF Funded (ERC’s)
- NASCENT (Nano ERC) – Nano Tech/Energy Technologies
- QESST (NSF/DOE) – Solar Energy
- CISTAR – Shale Gas
- NSF Summer REU Programs

Tip for students looking for research groups - look in Engineering news for announcements of grants.

School of Engineering
- CARC – High Speed Processing
- CEET – Emerging Energies
- Center for Stable Isotopes
- CHTM – High Tech Materials (Optics)
- CIESESE – Consortium for Integrating Energy Systems in Science and Engineering Education
- CMEM – Micro-engineered Materials
- COSMIAC – Space
- CREST /CWE – Water/Environment
- ESS Student Research Experience Program
- MTTC – Clean room for semiconductor processing and MEMS
- RED – CBE: Revolutionizing Engr and CS Departments
- STC – Patents/Start-ups
- UNM/AFRL Agile Manufacturing Center
UNM Undergraduate Research Programs

• First Year Research Experience (FYRE) through the College Enrichment Program
• El Puente Scholars
• McNair/ROP Scholars
• PREP (Post-Baccalaureate Program)
Research Experience for Undergraduates (REU)

- NSF list many different fields (https://www.nsf.gov/crssprgm/reu/)
- McNair/ROP posts many of these on their social media:
  - FB: @unm.rop
  - IG: @unmcnairop
- Overview:
  - Don’t miss the deadlines.
  - Application requirements
  - Compensation
WE ARE
STUDENT SUCCESS!

WE OFFER:
- Tutoring
- Scholarships and fellowships
- Engineering tours
- Jobs and internships
- Networking events
- Mentoring and undergraduate research
- Academic success workshops
- K-12 opportunities
- ...and more!

CONTACT US TODAY!
ess@unm.edu
(505) 277-4854
Centennial Engineering Center, Suite 2080
ess.unm.edu

5 Reasons to Engage with

- Access to Scholarships & Financial Aid
  ess.unm.edu
- Build Your Network
- Achieve Academic Success
- Enhance Your Resume
- Connect to Research & Internship Opportunities
ESS Tutoring App

ESS Drop-in Tutoring Sessions now available on the Penji App
App available on Google Play and Apple Stores as well as on penjiapp.com

You must use your UNM email to access the ESS Tutoring Community!

For support and more details visit ess.unm.edu
Introducing a new tool for engineering your

succESS

This APP allows you to keep up to date on all we have to offer.

Put your learning into your own hands.

success.unm.edu

and coming soon to the Play Store

Spring 2021 Events

Pre-Semester Prep
Jan 11 - 15. Trig, Calculus 1 & 2, Physics

Semester Long
Get a STEM Professional Mentor; Be a Peer-Mentor; Gain Research Experience

Weekly

Wk 1 Find Your Pack - SoE Student Organization Day
Wk 2 How to Get Into a Research Lab
Wk 3 Mock Exams
Wk 4 Resume Event/Career Expo
Wk 5 STEM Mixer
Wk 6 Study Skills
Wk 7 Engineering Week!
Wk 8 Time Management
Wk 9 Giving Effective Presentations
Wk 10 Imposter Syndrome
Wk 11 Basic Excel
Wk 12 Start-Ups, Patents, & Publications
Wk 13 Undergraduate Research Opportunities Conference (URCC)
Wk 14 Dealing with Disappointment
Wk 15 Tips & Tricks for Standardized Exams

FREE

And more! For more details, visit through our app: success.unm.edu/events

WIN a book scholarship. GAIN experience. BUILD your skill set. ENHANCE your resume.
Mock Exams

2 days! Thursday & Friday, February 4 & 5, 2021

Take a PRACTICE TEST (Thurs 9 - 4 PM ONLY)
Receive an ANSWER KEY (Thurs 10 AM - 4 PM & Fri 9 AM - 2 PM)
Get help from TUTORS (Thurs 2 - 5 PM & Fri 9 AM - 1 PM)

Tests Offered:
Chem 1215
Math 1512, 1522, & 1250 (w/Ch. 10-16, but all 1230, 1240 & 1250 are welcome)
Physics 1310 (based on Dr. Golfam's sections, all sections welcome)

Online via email & Zoom
Pre-registration is HIGHLY encouraged.
ess.unm.edu/events > February

Lab Safety Matters!

Join us for a 3 part series that will prepare you for lab work, or make you a more valuable lab mate.

1/26 or 3/9: Hazard Communication in the Laboratory & Hazardous Waste Management
2/9 or 3/23: Hierarchy of Hazard Control & PPE
2/23 or 4/6: Hazard Evaluation and Heuristics

Attend all 3 and earn a Lab Safety Certificate from SRS

WIN a book scholarship*,
GAIN experience,
BUILD your skill set,
ENHANCE your resume.

*School of Engineering students only

Engineering Student Success Center | CAPS | CEP

FREE
Hazardous Waste

RSVP is preferred, but not required.

ess.unm.edu/events
OR through our app - succESS

Every Other Tuesday
2 - 3 PM, via Zoom
(Meeting ID: 945 4519 6176)
STEM MIXER
Friday, February 12, 2021
3:30 - 5:30 PM
Zoom (with Breakout Rooms)
https://unm.zoom.us/j/95952027972

FREE
Win a scholarship!*
*School of Engineering Students only

UNM Students, staff, and faculty, as well as Albuquerque's STEM Professionals are all encouraged to attend!

Come and network with others interested in STEM.

RSVP is preferred, but not required.

ess.unm.edu/events > February

or through our app - succESS

---

Workshop
Improve Your Study Skills

Come learn some STUDY HACKS
to see how you can turn your current habits into effective studying to
conquer your classes and beyond.

- Information Recall
- Anti-Cramming
- The Test Cycle

The University of New Mexico
Engineering Student Success Center | CAPS

Thursday, February 18, 2021
2 - 4 PM
Via Zoom (https://unm.zoom.us/j/9622033907)

Learn more or RSVP
(preferred but not required) at
ess.unm.edu/events > February
OR through our app - succESS
History and Careers within Engineering and Computing

Come learn about the significant points in history and what careers are out there for you.

February 19 - 26, 2021 @ 4 PM via Zoom https://unm.zoom.us/j/92334286337

- 19th, Computer Science
- 22nd, Chem & Bio Engineering
- 23rd, Civil, Env., & Const. Eng.
- 24th, Electrical & Computer Eng.
- 25th, Mechanical Engineering
- 26th, Nuclear Engineering

RSVP is preferred, but not required.

ess.unm.edu/events > February
or through our app - succESS
Questions?
goto.unm.edu/ess-feedback

Give feedback.
Win a book scholarship!

yadeeh@unm.edu
505-277-9151

ENGINEERING STUDENT SUCCESS CENTER

Don’t forget to follow us on social media!
Chemical & Biological Engineering (CBE; ChemE, BioE)

- Petroleum/Crude Oil Processing
- Bioengineering: Enzymes, Prosthetics, Drug Delivery
- Pharmaceuticals
- Energy: Conversion, Biofuels, Miniaturized, Storage
- Tissue Engineering
- Materials Processing
- Environmental: Cleanup, Protection, Remediation, Sustainability
- Protein Structures/Polymers
- Sensors and Biosensors
- Nanomaterials/Nanodevices
- Cancer, Alzheimer’s, DNA, Genetics
Civil, Construction, & Environmental Engineering
(CivE, ConE, EnvE)  

- Mechanics of Materials
- Construction Materials
- Asphalt/Concrete
- Precision Structures
- Hydraulics
- Environmental
- Geotechnical (incl. GIS)
- Structural
- Soil Mechanics
- Transportation/Surveying

Including Construction Management (ConM)

- Flood Control
- Water Resources
- Water Treatment
- Computer Aided Design

Steel Bridge
Concrete Canoe
Computer Science (CS)

- Human Computer Interaction: Social Networking, Media
- Chemical/Molecular/Biomedical Computing: Micro Ants
- Parallel and Distributed Computing
- Pattern/Language Recognition
- Gaming Theory
- Computer Immunology
- Big Data Analytics/Data Mining
- Artificial Life: Automated Reasoning, Machine Learning
- Internet Protocols, Measurements, Routing
- Animation, Digital Media and Visualization
- Computer Vision Systems
- Information Analysis, Privacy, Security
Electrical/Computer Engineering (ECE; EE, CompE)

- Power, Energy, Plasma and Fusion Science
- High-Performance Algorithms/Computing
- Robotics, Artificial Intelligence and Vision
- Image/Video Processing
- Networked Multimedia/Parallel Computing
- Advanced Graphics/Gaming Theory
- Advanced Cyber-Infrastructure
- Signal Processing/Information Theory
- Networked Control Systems
- High-Tech Materials

- Wireless Sensor Networks
- Virtual Reality
- MIND Institute
- Communications/Information Sciences
- Integrative Nanoscience and Microsystems

MSEE Space Systems Engineering Managed
Mechanical Engineering (ME)

- Materials & Micro-Systems
- Artificial Limbs
- Vehicles (Space, Air, Road)
- Gearing Machines
- Fluid Mechanics
- Crystal Plasticity
- Dynamic Systems & Controls
- Solid & Computational Mechanics
- Thermal Sciences
- Vibrations

- Solar
- Manufacturing
- Robotics
- Heating, Ventilation, Refrigeration
- Biotechnology

Interdisciplinary thrust areas including renewable energy, aerospace systems, and bioengineering
Nuclear Engineering (NucE)

- Hazardous Waste Management, Disposal, Safety
- Nuclear Fusion/Fission
- Exploration and Utilization of Outer Space
- High Energy Charged Particle Transport
- Nonproliferation and The Nuclear Fuel Cycle
- Nuclear Reactor Physics/Next Generation Development
- Radiation Transport
- Spent Fuel Analysis/Aging Acceleration Techniques
- Multi-physics Simulations
- Process Imaging and Visualization