



Program Book

Monday, July 20, 2026
Popp Martin Student Union
&
Online via Symposium

<https://symposium.foragerone.com/summer-symposium-2026>

Welcome to 2026 OUR Summer Research Symposium!

The Summer Research Symposium celebrates the intellectual exploration and creativity of our students. With more than 125 presentations, nearly 150 presenters, and over 90 different mentors, the 2026 Summer Research Symposium at UNC Charlotte is a celebration of the diversity of research and scholarship in our community. As UNC Charlotte ascends to “R1” status, the involvement of so many members of our community in research is vital for the mission of the University. We also welcome scholars from Wingate University, the faculty of Charlotte-Mecklenberg schools, and our Research Experience for Undergraduate supported students from other campuses.

These presentations are the result of roughly 30,000 hours of collaborative work between students and mentors in the labs, libraries, studios, field sites, and with community partners. We encourage you to engage broadly with the diverse projects representing over 42 departments and programs from 7 colleges across the University.

The research presented here represents multiple National Science Foundation supported programs, the Charlotte Teachers Institute, The Reeves Summer Research Program at Wingate University, and the OUR Summer Scholars.

These students and professionals have not only advanced our collective knowledge and understanding of the world we live in, but they have demonstrated tremendous resilience, innovation, and creativity to overcome difficult trials, setbacks, and challenges to be able to share with you today their findings and experience. We welcome you to approach them with an open mind. Ask questions. Be prepared to learn and to discover new things. Help us celebrate the accomplishments of this group of future and current professionals.

Finally, the Summer Research Symposium would not be possible without the commitment of our UNC Charlotte research mentors. A big thank you to all mentors for your service and dedication to undergraduate research, scholarship, and creative activities at UNC Charlotte.

Welcome to the Summer Research Symposium and enjoy your time with our students!

View presentations, ask questions, and continue conversations online
at the 2026 Summer Research Symposium site



2026 Summer Research Symposium

Schedule of Sessions

9:00 AM – On-site Conference Registration Opens (outside 340)

9:45 AM – 10:00 AM – Welcome (340)

10:00AM – 11:00 AM – First Presentation Session

Poster Presentations in 340 and Oral Presentations in 261 and 263

11:00 AM – 11:15 AM – Poster & Room Swaps

11:15AM – 12:15 PM – Second Presentation Session

Poster Presentations in 340 and Oral Presentations in 261 and 263

12:15 PM – 1:15 PM – Lunch in back of 340

Poster & Room Swaps

1:15 PM – 2:15 PM – Third Presentation Session

Poster Presentations in 340

2:15PM-2:30PM – Thank you and event clean up (340)

Oral Presentation Sessions in Rooms 261 and 263

First Oral Presentation Session 10:00-11:00AM

Room 261 (Moderator Mohsen Dorodchi)

AI-Guided Debate Tool to Enhance Students' Critical Thinking and Argumentation Skills

Cayman Powell

Research Mentor: Mohsen Dorodchi

An AI Agent for Teaching Pedagogical Summarization Using RAG and Large Language Models

Abdul-Rahman Dauda

Research Mentor: Mohsen Dorodchi

Does reader skill influence mind wandering and reading comprehension?

Myleah Starnes (Wingate University)

Research Mentor: Megan Deibel

Room 263 (Moderator Will Campbell)

Examining the underlying mechanisms of flight muscle histolysis in the house cricket (*Acheta domesticus*)

Lennart Müller (Wingate University)

Research Mentor: Acchia Albury

The Gap between Rhetoric and Restitution: African Americans and the Southern Claims Commission

Deborah Henry

Research Mentor: Nicole Viglini

Transcription and Analysis of Improvised Jazz Solos: The Evolution of Musical Vocabulary in "America's Classical Music"

Elliott Stoffler

Research Mentor: Will Campbell

Second Oral Presentation Session 11:15AM - 12:15PM

Room 261 (Moderator Albert Yun)

Institutionalized Corruption: A 1980's Case Study of Mexico and Public Mistrust

Amy Husar

Research Mentor: Jürgen Buchenau

Intelligent Robotic Arm System: AI Vision, Remote Control, and Digital Twin Development

Janiaya Cobbs

Research Mentor: Albert Yun

[A Written Historical Analysis of Two Primary Case Studies] The Politics of Anti-Drug Cooperation: The Camarena Murder, Certification, and U.S.-Mexican Relations

Mandy Williams

Research Mentor: Jürgen Buchenau

Room 263 (Moderator Jordan Blekking)

Emergence of the Invasive Asian Longhorned Tick: Environmental Monitoring and Pathogen Surveillance in a Mecklenburg County Urban Park

Ieman Khan, Jude Webster, Natasha Jariwala

Research Mentor: Rafael Da Costa Vieira

Regime Insiders, Mass Mobilization, and Episodes of Regime Transformation

Derya Ulucay (Wingate University)

Research Mentor: Jacob Wobig

Exploring the interaction between Oncolytic Agents and Chemotherapeutic drugs

Timothy Taffe

Research Mentor: Valery Grdzlishvili

Poster Presentation Sessions in the 340 Ballroom

First Session of Poster Presentations (10:00AM – 11:00 AM)

Poster #	First Presenter Name		Mentor
101	Ahmed	Ahmed	Xuyang Li
102	Arthur	Decker	Saffeer Khan
103	Alyssa	George	Abigail LaBella
104	Amariah	Robinson	Matin Yarmand
105	Branden	Crenshaw	Zheming Gao
106	Carleigh	Deaver	Yuqi Guo
107	Caleb	Dry	Sara Levens
108	David	Diza	Nadia Najjar
109	Diana	Merenkov	Christopher Beijger
110	Dhruvid	Zechariah	Artur Wolek
111	Emma	Light	Megan Mitchem & Andrew Truman
112	Gabrielle	Briz	Sandra Clinton
113	Gilberto	Feliu	Ran Zhang
114	Ricky	Noboa	Ankit Agarwal
115	Gustavo	Sanchez-Urbe	Alireza Tabarraei
116	Jake	Davis	Jay Mathews
117	Jarely	Ramirez Bermejo	Lan Kolano
118	Kimberlyn	Carlton-Brown	Kristen Funk Johnson
119	Kashiah	Ford Leonard	Eva Ge
120	Kiyah	Lee	Jeanette Bennett
121	Khushi	Rathod	Jessamyn Moxie
122	Lalith	Uriti	Razvan Bunesu
123	Mia	Acevedo	Timothy Murtha
124	Maningi	Ochola	Robert Reid
125	Nishka	Ghloria	Laura Casto-Boggess
126	Neha	Panajkar	Amanda Brock
127	Owen	Broadbooks	Christopher Beijger
128	Ramani Sree Sampada	Bommuluri	Liyue Fan
129	Ria	Mark	Sharon Watson
130	Rachael	Nguyen	Jordan Poler
131	Safa	Khalid	Jeanette Bennett
132	Shiva	Kharatmol	You Zhou
133	Gabriel	Tewell	Jordan Blekking
134	Sydney	Woods	Sharon Watson
135	Tip	Phetbourom	Lan Kolano
136	Vincent	Huckins	Robert Reid
137	Victoria	Blain	Juan Vivero-Escoto
138	Zoha	Ali	Susan Trammell

Second Session of Poster Presentations (11:15AM – 12:15 PM)

Poster #	First Presenter Name		Mentor
101	Emily	Biaz	Denis Jacob Machado
102	Wyatt	Hodges	Jeremy Loslaw
103	Tyler	Steffy	Alireza Tabarraei
104	Tabatha	Schimmel	Junqiu Wang
105	Terrell	Beaman	Eric Heberlig
106	Smit	Patel	Srinivas Akella
107	Schadrac	Nkanga	Abasifreke Ebong
108	Saige	Hatfield	Matin Yarmand
109	Stella	Foreman	Ian Chang
110	Shreem	Dixit	Gongfan Chen
111	Sumedha	Budaraju	Denis Jacob Machado
112	Ria	Saha	Janqiu Wang
113	Norah	Rutkowski	Rachael Mae Rowe & Sandra Clinton
114	Noah	Marsico	Lynnora Grant
115	Natalie	Lukens	Sandra Clinton
116	Mia	Reilly	William Garcia
117	Matthew	Jones	Liyue Fan
118	Lex	Lapish	Cori Faklaris
119	Liam	Eckhart	Roger Tipton
120	Kashika	Chaudhary	Carlos A. Gonzalez-Calderon
121	Jonathan	Conde	Keith Burghardt
122	Isabella	Alzamora	Nan Zhao
123	George	Glassner	Sandra Clinton & David Vinson
124	Evelyn	Walters	Martin Shuster
125	Alexander	Esparza	Meera Sridhar
126	Eli	Smithberg	Yao Li
127	Emily	Smith	Yuqi Guo
128	Ananya	Patchigolla	Gongfan Chen
129	Daniel	Miner	Ran Zhang
130	Daniel	Gordon	Jacob Scheff
131	Cameron	Golden	Fushcia Hoover
132	Bill	Xiang	Razvan Bunescu
133	Adelina	Zheng	Jinzhen Wang
134	Augustine	Ofosu	Acchia N.J. Albury
135	Ayush	Patel	Cori Faklaris
136	Abdul Moeed	Mohammed	Abigail LaBella
137	Afia	Lockett	Youngseob Eum
138	Alex	Becerril Cruz	Juan Vivero-Escoto

Third Session of Poster Presentations (1:15PM – 2:15 PM)

Poster #	First Presenter Name		Mentor
101	Angela	Alozie	Michael Walter
102	Audrey	Andrews	Mary Jo McGowan
103	Colby	Kimball	Jordan Blekking
104	Klein	Dulin	Cori Faklaris
105	Amritha	Selvaraj	Morgan Carter
106	Caroline	Donaldson	Michael Walter
107	Caeley	Henderson	Julio Bahamón
108	Charlie	Stogner	Eva Ge
109	David	Chau	Braveheart Gillani
110	Daniel	Mendoza	Kalpathi Subramanian
111	Rain	Drennan	Jessamyn Moxie
112	Everett	Pohl	Kalpathi Subramanian
113	Emilia	Sanchez	Kristen Funk
114	Emma	Wilhjelm	Jaime Berez
115	Josiah	Freeman	Jeremy Losaw
116	Jackson	Rheinbolt	Mary Jo McGowan
117	Jessica	Tejeda Rubalcava	Susan Trammell
118	Karina	Chavarria- Garcia	Erik Byker
119	Kate	Dydzinski	Eric Heberlig
120	Keerthana	Kompella	Nadia Najjar
121	Kamaaluddin Azhar	Lodge	Angelo Gaitas
122	Laila	Eshel	Jay Foley
123	Dominick	Campoazano	Stephanie Potochnick
124	Matthew	Chew	Casey Davenport
125	Mia	Manjarres	Morgan Carter
126	Mansi	Patel	Micheal Walter
127	Talan	Pearley	Xuyang Li
128	Palmer	Everett	Jay Troutman
129	Riley	Lauer	Jose Outeiro
130	Sarmistha	Ghosh	Kiril Afonin & Scott Gartlan
131	Sanjay	Kashyap	Michael Smith
132	Suhani	Ranjan	Trudy Moore-Harrison
133	Tyler	Roth	Paula Landerreche Cardillo
134	Vincent	Jimenez	Michael Smith
135	Wes	Morgan	Paula Landerreche Cardillo
136	Zoe	Brooks	Braveheart Gillani
137	Zack	Rothmann	Jaime Berez
138	Xzavier	Smith	Jordan Poler
139	Nik	Khot	Roger Tipton

Poster Titles

Land, Water, and Community in the Yucatan: Mapping the Maya

Mia Acevedo

Research Mentor: Timothy Murtha

Flow Matching for Analyzing Structural Integrity

Ahmed Ahmed

Research Mentor: Xuyang Li

ETI - Epidermis

Zoha Ali

Research Mentor: Susan Trammell

Following the Electrons in Photochemistry: Linking Cyclic Voltammetry to Quenching Efficiency

Angela Alozie

Research Mentor: Michael Walter

Modeling Vascular Basement Membrane Changes in Aging Using Tissue-Engineered Microvessels

Isabella Alzamora

Research Mentor: Nan Zhao

Election Director Salaries in the United States

Audrey Andrews

Research Mentor: Mary Jo McGowan and Robert Hines

Rewarding Effective Lawmakers: Legislative Effectiveness and Industry PAC Contributions across the States

Terrell Beaman

Research Mentor: Eric Heberlig

Light-activated nanoparticles for the elimination of bacterial biofilms

Alex Becerril Cruz

Research Mentor: Juan Vivero-Escoto

Beyond Flat Classification: Automated Hierarchical Machine Learning Models for Robust Metadata-Based Clade Prediction

Emily Biaz

Research Mentor: Denis Jacob Machado

A Breakdown on the Synthesis of Chlorin e6 Mesoporous Silica Nanoparticles (Ce6-MSNs) and their Applications for Photodynamic Therapy

Victoria Blain

Research Mentor: Juan Vivero-Escoto

Privacy Risks and Mitigation Strategies for Genomic Foundation Models

Ramani Sree Sampada Bommuluri

Research Mentor: Liyue Fan

Cation Dynamics in Reedy Creek Post-Restoration: a Long-Term Follow-Up on Soil-Water Interaction and Water Quality

Gabrielle Briz

Research Mentor: Sandra Clinton

Synthesis and characterization of M4S4 metal organic framework with CN-Ar^(tipp2) organic linkers

Owen Broadbooks

Research Mentor: Christopher Bejger

Belonging as Infrastructure for Retention Intentions Among Men in Caring Professions

Zoe Brooks

Research Mentor: Braveheart Gillani

An Unsupervised Machine Learning Approach for Identifying Viral Genome Recombination Events from Evolutionary Trees

Sumedha Budaraju

Research Mentor: Denis Jacob Machado

Examining Latino Fathers' Mental Health and Well-Being in Charlotte

Dominick Campozano

Research Mentor: Stephanie Potochnick

Neuroimmune Responses to Flaviviruses during the Post-Acute Infectious Stage

Kimberlyn Carlton-Brown

Research Mentor: Kristen Funk Johnson

Person Behind the Player: An Analysis on the Hegemonic Masculine Ideals Behind Player Characterization in Dungeons and Dragons

David Chau

Research Mentor: Braveheart Gillani

Healthy Routes, Healthy Neighborhoods: A Rapid Exposure and Equity Scan in Charlotte

Kashika Chaudhary, Micah Stokes

Research Mentor: Carlos A. Gonzalez-Calderon

Preparing Teachers as Researchers Using the Civil Rights Data Collection

Karina Chavarria- Garcia

Research Mentor: Erik Byker

Environmental Influences of the Chesapeake Bay on Convective Storm Morphology and Severe Weather Production across the Mid-Atlantic

Matthew Chew, Roger Riffin

Research Mentor: Casey Davenport

LLM-Generated Counterspeech to Deradicalize Extremists in Hateful Online Communities

Jonathan Conde, Patience Ventura

Research Mentor: Keith Burghardt

A Case Study of The Progression of Alzheimer's Disease

Branden Crenshaw, Jenifer Roque-Martinez

Research Mentor: Zheming Gao

Measuring optical loss in silicon-on-insulator waveguides

Jake Davis

Research Mentor: Jay Mathews

Examining the Relationship Between Social Media Discussions and HPV Vaccination Rates Using State-Level Demographic and Socioeconomic Data

Carleigh Deaver

Research Mentor: Yuqi Guo

Power Hardware in the Loop and Medium Voltage Testing for Power System Components

Arthur Decker

Research Mentor: Saffeer Khan

Nova: An Edge AI Autonomous Robotic Assistant for Intelligent Construction Site Inspection

Shreem Dixit

Research Mentor: Gongfan Chen

A Localized Android Ecosystem for Elementary Aquaponics STEM Education

David Diza

Research Mentor: Nadia Najjar

Photochromic Thiazolothiazole Compounds for Sensing Amine Containing Illicit Drugs

Caroline Donaldson, Mansi Patel

Research Mentor: Michael Walter

Envisioning a Violence-Free Charlotte Through Community-Based Zine Making

Rain Drennan

Research Mentor: Jessamyn Moxie

Finding Joy in Physical Activity: A Qualitative Investigation of Negative Exercise Cognitions and Paths to Physical Activity Enjoyment Among Underactive Adults

Caleb Dry

Research Mentor: Sara Levens

Digital Graffiti: Towards a Comparative History of Creativity in a Malware Context

Klein Dulin

Research Mentor: Cori Faklaris

Reflecting on Critical Mass Theory in State Legislatures: How Increases in Women's Representation Affect Female Legislators

Kate Dydynski

Research Mentor: Eric Heberlig

Extracting Nanocellulose Fibers from Plant Matter and Supply Chain Development

Liam Eckhart, Shamar Lindo

Research Mentor: Roger Tipton

Intermolecular Forces in an Optical Cavity

Laila Eshel

Research Mentor: Jay Foley

AI Centered Attacks on OT Security Within Gamified Learning Environment

Alexander Esparza

Research Mentor: Meera Sridhar

Comparative Analysis of Lipid Carrier Chain Lengths and Syntheses in *Escherichia coli*, *Helicobacter pylori*, and *Caulobacter crescentus*

Palmer Everett

Research Mentor: Jay Troutman

Artificial Intelligence Powered Autonomous and Distributed Multi-Drone Platform

Gilberto Feliu

Research Mentor: Ran Zhang

Synthesis and Characterization of Cys-T7 Peptide

Kashiah Ford Leonard

Research Mentor: Eva Ge

Satellite Observation of Diurnal Variation in PM_{2.5} Concentrations

Stella Foreman

Research Mentor: Ian Chang

Characterization of Grocery Store Packaging and Establishing Routes for Circularity

Josiah Freeman

Research Mentor: Jeremy Losaw

Identifying Genetically Distinct Yeast Species Across Different Campus Microhabitats

Alyssa George

Research Mentor: Abigail LaBella

Silver-Coated Gold Nanostars for Microfluidic SERS Applications

Nishka Ghiloria

Research Mentor: Laura Casto-Boggess

From Glow to Kill: Integrating DNA-Templated Silver Nanoclusters into Authentic STEM Research and Antimicrobial Education

Sarmistha Ghosh

Research Mentor: Kiril Afonin, Scott Gartlan

Total suspended solids as an indicator of erosion control effectiveness across different land uses in a restored urban stream

George Glassner

Research Mentor: Sandra Clinton, David Vinson

Campus Morphology and Perceived Restorativeness of Soundscape at UNCC

Cameron Golden

Research Mentor: Fushcia Hoover

How Has Climate Change Influenced the Speed of Northern Hemisphere Winter Weather Pattern Changes?

Daniel Gordon

Research Mentor: Jacob Scheff

AI-Powered Continuous Learning for Cybersecurity Professionals: Exploring Opportunities for Intelligent Workplace Learning

Saige Hatfield

Research Mentor: Matin Yarmand

Glitch Defense: An Educational Game to Teach Cybersecurity Concepts

Caeley Henderson, Bee Acree

Research Mentor: Julio Bahamón

Desktop Bio-Fiber Spinner

Wyatt Hodges

Research Mentor: Jeremy Loslaw

Gene Expression Analysis of a Bovine Thymus Extract in Human Subjects: Implications for Traumatic Brain Injury Recovery

Vincent Huckins

Research Mentor: Robert Reid

Expanding the Deployment Time of Wave Energy Converters to Enhance the Production of Potable Water

Vincent Jimenez

Research Mentor: Michael Smith

A New Look at Machine Learning Extraction Detection

Matthew Jones

Research Mentor: Liyue Fan

Development of Marine Energy Technologies to Enhance Device Reliability

Sanjay Kashyap

Research Mentor: Michael Smith

Cultural Conflict: How Bicultural Identity Integration Buffers the Impact of Psychological Distress on Physical Health

Safa Khalid, Angela Bang

Research Mentor: Jeanette Bennett

Design and modeling of Metalenses for Imaging Applications

Shiva Kharatmol

Research Mentor: You Zhou

Predicting Microplastic Concentrations in Oceans

Nik Khot

Research Mentor: Roger Tipton

Urban Food Security in Lusaka, Zambia

Colby Kimball

Research Mentor: Jordan Blekking

Beyond the Checklist: A Cognitive Load Theory Perspective on AI-Assisted Design Recipe Environments

Keerthana Kompella

Research Mentor: Nadia Najjar

Investigating Evaluation Metrics for Dangerous Speech Content Moderation Models in Low-Resource Contexts

Lex Lapish

Research Mentor: Cori Faklaris

Virtual Dashboard for Real-Time Monitoring and Control of Robotic Welding and Wire Arc Additive Manufacturing

Riley Lauer

Research Mentor: José Martins do Outeiro

Social Support as a Buffer of the Effects of Depressive Symptoms on Subjective and Objective Cognitive Functioning

Kiyah Lee

Research Mentor: Jeanette Bennett

Deriving the cytoplasmic function of the Mpk1 stress-activated protein kinase during heat shock

Emma Light

Research Mentor: Megan M. Mitchem and Andrew W. Truman

How GeoAI Improves Macroplastic Spatial Analyses - A Vehicle-Mounted Dataset for Small Object Detection of Roadside Litter

Afia Lockett

Research Mentor: Youngseob Eum

Thermal Conductivity Mapping in Biological Samples Using a MEMS 3-Omega Sensor

Kamaaluddin Azhar Lodge

Research Mentor: Angelo Gaitas

Evaluating the Impact of Stream Restoration Age on Dragonfly Genetic Diversity

Natalie Lukens

Research Mentor: Sandra Clinton

Bacterial-Fungal interactions between *Paenibacillus* sp. CB74 and *Fusarium oxysporum* f. sp. *niveum*

Mia Manjarres

Research Mentor: Morgan Carter

Stitching Community Fabric During Gentrification: A Look at the Role Place-Based Initiatives Play in Building Social Fabrics Between Under-Resourced Mothers in Charlotte

Ria Mark

Research Mentor: Sharon Watson

Extrusion-Based Ceramic 3D Printing for In-Space Manufacturing

Noah Marsico

Research Mentor: Lynnora Grant

Real World Programming Assignments To Engage Computer Science Students

Daniel Mendoza

Research Mentor: Kalpathi Subramanian

Synthesis of Mechanochemical Cross-Linked Polymers Using Radialene Radicals

Diana Merenkov

Research Mentor: Christopher Bejger

Artificial Intelligence Powered Autonomous and Distributed Multi-Drone Platform

Daniel Miner

Research Mentor: Ran Zhang

Predicting Carbon Source Utilization in Yeasts Through Functional Genome Annotation

Abdul Moeed Mohammed

Research Mentor: Abigail LaBella

The Impact of María Lugones' Work in English-Speaking Academia

Wes Morgan, Tyler Roth

Research Mentor: Paula Landerreche Cardillo

Kinetics Studies of ARGET ATRP of Polymers in Varying Conditions to Functionalize Zeolite Grains

Rachael Nguyen

Research Mentor: Jordan Poler

The Evolution of High-Efficiency Multijunction Concentrator Solar Cells: A Review

Schadrac Nkanga, Mickey Limlingan

Research Mentor: Abasifreke Ebong

Evaluating the Impact of Adversarial Attacks on AI-based Cutting Tool Wear Monitoring Systems

Ricky Noboa

Research Mentor: Ankit Agarwal

Developing Pipeline Tools for Exploring Gene Expression in a Traumatic Brain Injury Model

Maningi Ochola

Research Mentor: Robert Reid

Examining the underlying mechanisms of flight muscle histolysis in the house cricket (*Acheta domestica*)

Augustine Ofosu (Wingate University)

Research Mentor: Acchia N.J. Albury

From Ancient Canals to Climate Futures: Water, Heritage, and Climate Resilience in the Andes

Neha Panajkar, Colleen Reynolds

Research Mentor: Amanda Brock

Investigating AI's Role in Students' Metacognition Development in Construction Plan Reading Classes

Ananya Patchigolla

Research Mentor: Gongfan Chen

Piloting an App for Visual Trust Indicators in Mobile Interfaces

Ayush Patel

Research Mentor: Cori Faklaris

Photochromic Thiazolothiazole Compounds for Sensing Amine Containing Illicit Drugs

Mansi Patel, Caroline Donaldson

Research Mentor: Micheal Walter

Autonomous Initial Position and Heading Recovery for Graph-Based Mobile Robot Navigation

Smit Patel

Research Mentor: Srinivas Akella

Determining Bolt Pressure Using Flow Matching

Talan Pearley

Research Mentor: Xuyang Li

A Volunteer's Motivation and Impact

Tip Phetbourom

Research Mentor: Lan Kolano

Real World Programming Assignments To Engage Computer Science Students

Everett Pohl, Daniel Mendoza

Research Mentor: Kalpathi Subramanian

The Role of the Physical Environment in Supporting Belonging for Immigrant and Refugee Youth.

Jarely Ramirez Bermejo

Research Mentor: Lan Kolano

Evaluating the Relationship between Percent Change in A1C between Two Regional Recreation Centers in Mecklenburg County

Suhani Ranjan

Research Mentor: Trudy Moore-Harrison

Perimenopause: Knowledge, Stigma, and Health Communication

Khushi Rathod

Research Mentor: Jessamyn Moxie

The Effect of Beaver Dams on Avian Diversity and Community Composition in Urban Systems

Mia Reilly

Research Mentor: William Garcia

Election Director Salary Trends: Underpaid or Overvalued?

Jackson Rheinbolt

Research Mentor: Mary Jo McGowan, Robert Hines

Goal Orientations of Students' Intentional Use of LLMs in a Coding-adjacent Classroom

Amariah Robinson

Research Mentor: Matin Yarmand

The Impact of Maria Lugones' Work in English-speaking Academia

Tyler Roth, Wesley Morgan

Research Mentor: Paula Landerreche Cardillo

Design and Evaluation of an Embedded Accelerometer Array for a Metal 3D Printer

Zack Rothmann

Research Mentor: Jaime Berez

Quantifying Dragonfly Diversity along an Urban Gradient

Norah Rutkowski

Research Mentor: Rachael Mae Rowe and Sandra Clinton

Evaluating the Impact of Metacognitive Video Reflections on First-Year Engineering Design Outcomes

Ria Saha

Research Mentor: Janqiu Wang

Investigating the Effects of Viral Infection on Tau Hyperphosphorylation in Primary Neurons

Emilia Sanchez

Research Mentor: Kristen Funk

Developing an AI Framework agent For Lightweight structures using Topology Optimization

Gustavo Sanchez-Urbe

Research Mentor: Alireza Tabarraei

Evaluating the Accuracy and Effectiveness of AI-Mediated Information Transformation in STEM: From Lecture Slides to Instructional Video

Tabatha Schimmel

Research Mentor: Junqiu Wang

Genetic Modification of Endohyphal Bacteria: *Luteibacter mycovicinus* and *Mycetohabitans endofungorum*

Amritha Selvaraj

Research Mentor: Morgan Carter

Digital Health Communication Patterns and HPV Vaccination: A Decade of Social Media Discourse and State-Level Coverage Trends (2015-2025)

Emily Smith

Research Mentor: Yuqi Guo

Water Purification Methods Using Granular Media

Xzavier Smith

Research Mentor: Jordan Poler

Digital Twins for Public Health: Coupling human mobility and airflow dynamics for indoor viral transmission

Eli Smithberg

Research Mentor: Yao Li

Developing An AI Agent for Efficient Topology Optimization

Tyler Steffy

Research Mentor: Alireza Tabarraei

Effects of Serine 245 Phosphorylation on CCS Copper Binding and Function

Charlie Stogner

Research Mentor: Eva Ge

Computational and Experimental Validation of a Dermal Mimicking Gelatin Phantom for Enhanced Thermal Imaging

Jessica Tejeda Rubalcava

Research Mentor: Susan Trammell

Estimating Healthful Food Availability in Indianapolis, Indiana, and Charlotte, North Carolina

Gabriel Tewell

Research Mentor: Jordan Blekking

An Interactive Visualization Interface for CS1C Knowledge Tracing Data

Lalith Uriti

Research Mentor: Razvan Bunescu

Mapping Charlotte: U.S. History Curricula

Evelyn Walters, Barbara Saa

Research Mentor: Martin Shuster

Understanding Causes and Effects of Thermal Lensing for Laser Powder Bed Fusion Machine Qualification

Emma Wilhjelm

Research Mentor: Jaime Berez

Sisterhood in Motherhood: The Importance of Peer Relationships for Mothers of Low-Income Households in Urban Cities

Sydney Woods

Research Mentor: Sharon Watson

Music Repair Models for Major-to-Minor Style Transfer

Bill Xiang

Research Mentor: Razvan Bunescu

Aerial Deployment System for Autonomous Marine Vessels in Water Body Mapping

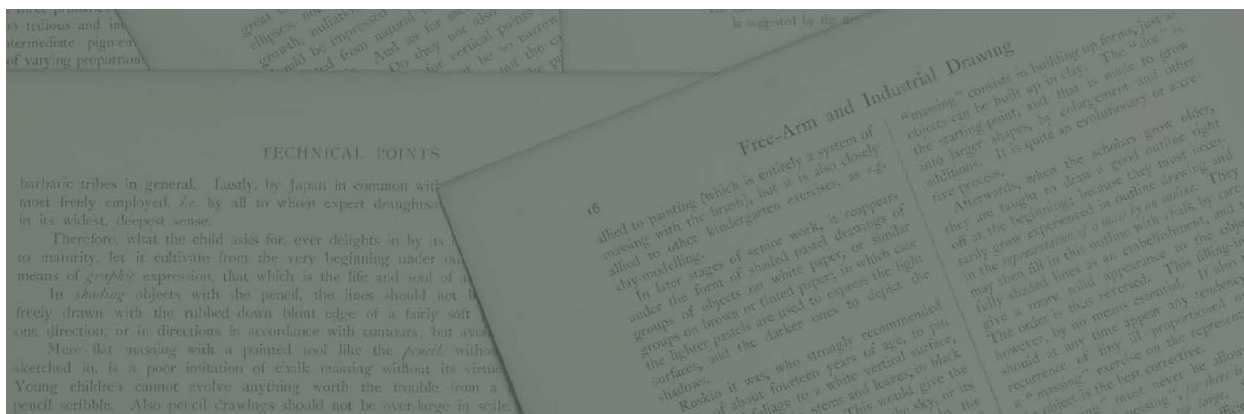
Dhruvid Zechariah

Research Mentor: Artur Wolek

PRISM: Parameter-Efficient Surrogate for Lossy Compression Quality Prediction

Adelina Zheng

Research Mentor: Jinzhen Wang



ETHEL Presents

CALL FOR SUBMISSIONS

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ETHEL is UNC Charlotte's new and revamped undergraduate research journal. Celebrating work from all disciplines, we invite you to celebrate your research in our upcoming publication. Find out more below:



View presentations, ask questions, and continue conversations online
at the 2026 Summer Research Symposium site

