

Zoom Rooms Q&A sessions for SNCURCS 2021
By Time

9:00-9:45 am

1. Engineering, Dr. Rich Blackmon (Elon)
2. Biological and Life Sciences, Dr. Jen Uno (Elon)
3. Chemical Sciences, Dr. Justin Clar (Elon)
4. Communication and Journalism, Dr. Qian Xu (Elon)
5. Education, Dr. Aaron Trocki (Elon)
6. Cultural & Language Studies and Humanities, Dr. Megan Isaac (Elon)

10-10:45 am

1. Computational Sciences, Dr. Pratheep Paranthaman (Elon)
2. Biological and Life Sciences, Dr. Carmony Hartwig (Catawba)
3. Chemical Sciences, Dr. Tony Rizzuto (Elon)
4. Social and Behavioral Sciences, Dr. Bilal Ghandour (Elon)
5. Education, Prof. Erin Hone (Elon)
6. Cultural & Language Studies and Humanities, Dr. Paula Rosinski (Elon)
7. Arts, Design, and Performing Arts, Dr. Casey Avaunt (Elon)

11-11:45 am

1. Computational Sciences, Dr. Scott Spurlock (Elon)
2. Biological and Life Sciences, Dr. David Vandermast (Elon)
3. Mathematics & Quantitative Studies and Physical Sciences & Astronomy, Dr. Chris Richardson (Elon)
4. Social & Behavioral Sciences and Business & Economics, Dr. Cindy Fair (Elon)
5. Medical and Health Sciences, Dr. Svetlana Nepocatych (Elon)
6. Environmental Sciences, Dr. Nicholas Bussberg (Elon)

9:00-9:45 am

1. Engineering, moderator Dr. Rich Blackmon (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Benedict, Kathryn		North Carolina State University	Cole, Jacqueline	Design and modeling of a novel in vitro platform for mechanistic probing of bone-vascular interactions
Ferrell, Coleman	Carroll, Matthew	East Carolina University	Lee, Jinkun	Optimizing Self-driving Parameters in Autonomous Vehicles through Traffic Simulation and CART Analysis
Frey, Ethan		North Carolina State University	Im, Sooik	Precisely Controlling Stiffness in Double Network Hydrogels Using Metal Redox Reactions
Karty, Jacob		North Carolina School of Science and Math	Su, Jonathan	Detecting Cyanobacteria Using Lens-Free Holographic Imaging and Machine Learning
Musa, Deeqa		North Carolina State University	Cole, Jacqueline H.	Impact of Tissue Heterogeneity on Vertebral Bone Failure in Finite Element Models at Clinical Imaging Resolution
Pakulniewicz, Zachary		East Carolina University	Liu, Yang	An Experimental Study on the Dynamics of Binder Drops Impacting on a Powder Surface in Binder Jetting Additive Manufacturing
Somashekar, Shishira		North Carolina School of Science and Math	Mahinthakumar, Kumar	Water Leakage Detection Using Machine Learning and Internet of Things

9:00-9:45 am

2. Biological and Life Sciences, moderator Dr. Jen Uno (Elon)

Student Name	Institution	Mentor	Title
Avula, Trisha	North Carolina School of Science and Math	Mallory, Heather	Co-Culturing of Microalgae for Enhanced Carbon Dioxide Sequestration
Baker, Janae	North Carolina A&T State University	Maldonado-Devincci, Antoinette	Intermittent ethanol exposure during late adolescence alters anxiety-like behavior but not ethanol drinking in a sex specific manner
Bhat, Vanya	UNC Chapel Hill	Cohen, Todd	Examining GFAP expression, C3 expression, IgM granule accumulation, and Tau5 antibody accumulation in a comparison between 3xTg-AD mice and wild-type mice
Chan, Elizabeth	East Carolina University	Neufer, P. Darrell	Metformin and mTPP Dose Response in Drosophila
Clark, Fiona	UNC Charlotte	Reitzel, Adam	DNA Demethylation in Nematostella vectensis
Dudley, Christa	Fayetteville State University	Graham, Danielle	Searching the Soil to Discover Antibiotics that Target Gram Negative Bacteria
Frost, E. Joy	North Carolina School of Science and Math	Mallory, Heather	Temperature Stress and RGA2 Expression in Musa acuminata
Grace, Sarah	Campbell University	Bunn, Jennifer A.	Changes in Sleep Quality in Division I Women's Lacrosse Athletes
Harris, Jayden	UNC Chapel Hill	Aponte Diaz, David	Host c-Fos modulation during enterovirus infection
Kantamsetty, Saishreeya	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Identifying Parasites with the Potential to Block Allergy-Inducing Proteins from Shellfish

9:00-9:45 am

3. Chemical Sciences, moderator Dr. Justin Clar (Elon)

Student Name	Institution	Mentor	Title
Augoustides, Victoria	North Carolina State University	Kolar, Praveen	Synthesis of Glucose and Biochar from Pinus taeda residues
Barbee, Brianna	Elizabeth City State University	Kumar, Bijandra	Cu and Ni co-sputtered Heteroatomic Thin Film for Nonenzymatic Glucose Detection: Synergistic Effect
Chamarty, Meghana	North Carolina School of Science and Math	Anglin, Tim	Selective and Cost-Effective Depolymerization of Polyolefins via a Tandem Dehydrogenation and Metathesis Dual Catalyst System.
Chapel, Valen S.	North Carolina School of Science and Math	Bruno, Michael	The design and synthesis of copper transporter 1 inhibitors to mitigate α -synuclein aggregation
Doki, Aniruddh	North Carolina School of Science and Math	Bruno, Michael	Development of a Biodegradable Membrane-Disruptive Polymer for the Treatment of Cancer
Huesa, Ana	North Carolina School of Science and Math	Bruno, Michael	Development of Colorimetric Sensor Array to Detect Irregularities in Honey Bee (<i>Apis mellifera</i>) Queen Reproductive Health
Karnley, Nathlita	Fayetteville State University	Wilson, Mark	Structure and Iron-binding of a Divergent Isocyanide Hydratase Homolog From <i>Bacillus</i>
Li, Runzi	UNC Greensboro	Hematian, Shabnam	Dioxygen Reactivity of Copper(I)-Manganese(II) Porphyrin Assemblies

9:00-9:45 am

4. Communication and Journalism, moderator Dr. Qian Xu (Elon)

Student Name	Institution	Mentor	Title
Clemons, Dallas M.	North Carolina Central University	Robinson, William R.	Justification in Presentation: Examining American News Media's Role in Black Stereotypes and Victimhood
Gelman, Lindsay	Elon University	Xu, Qian	Persuasion Strategies in Building Campaign Discourse on Social Media: A Comparison of Donald J. Trump and Joe Biden's Ads on Facebook
Jordan, Kayla	North Carolina Central University	Robinson, William R.	Social Media Impacts on The Justice System: A Comparative Study of the Deaths of George Floyd and Philando Castile
McLean, Joshua A.	North Carolina Central University	Robinson, William R.	Examining Professional American Athletics Through a Racial Lens: Sports Media Commentators' Depiction of Black Athletes v. White Athletes
Taft, Chelse	North Carolina Central University	Robinson, William R	#Cancelled: An investigative analysis of cancel culture and social media
Reyes, Zava A.	North Carolina Central University	White, Shauntae Brown	I Like the Way She Moves: Misogyny in Hip Hop, Country and Rock
Jr Manning, Chukwuemeka A.	North Carolina Central University	Robinson, William R.	Cancel Culture: Social Justice or Social Threat?

9:00-9:45 am

5. Education, moderator Dr. Aaron Trocki (Elon)

Student Name	Student coauth.	Institution	Mentor	Title
Collins, Kasey		Elon University	Trocki, Aaron	Investigating Technology Use in Secondary Mathematics Virtual Classrooms
Delgado, Allison	Nguyen, Han Bunch, Zoie Thompson, Bailey	Forsyth Technical Community College	Popova, Maia	Analysis of Representations in Chemistry Textbooks: A Literature Review
Dobson, Alesia		Fayetteville State University	Okunbor, Daniel	Flipped Pedagogy in STEM Learning at an HBCU
Fields, Adrianna		Fayetteville State University	Bills, Kaycee L	DISABILITY COMMUNITY: A SYSTEMATIC REVIEW OF BIOLOGICAL AND ENVIRONMENTAL IMPACTS LEARNING DISABILITIES AND GRADUATING RATES
Nguyen, Han.	Delgado, Allison.	Forsyth Technical Community College	Popova, Maia.	Analysis of Representations in Chemistry Textbooks: A Literature Review
Vanderpool, Jacob		North Carolina A&T State University	Ofori-Boadu, Andrea	The AGGIE-National Association of Home Builders' (AGGIE-NAHB) Residential Sub-division Development Competition Proposal
Washington. Randolph D.	Ofori-Boadu, Andrea	North Carolina A&T State University	Ofori-Boadu, Andrea	STEM Student Positive Academic and Career Advancement Experiences during COVID-19 Pandemic

9:00-9:45 am

6. Cultural & Language Studies and Humanities, moderator Dr. Megan Isaac (Elon)

Student Name	Institution	Mentor	Title
Fleming, Asuntha	Chowan University	Hayes, Tim	Art of War
Helmlinger, Felicia	UNC Wilmington	Scott-Pollock, Julie-Ann	Personal Narratives of Transnational Adoption: Navigating Family, Belonging, and Transcultural Connection
Henneberry, Alana C.	Meredith College	Fischer, Holly	Are Gender Stereotypes Tumbling In Gymnastics?
Burch, Scout	Meredith College	Grimes, Shannon	Queering the Other: Levinas and Gender Identity
Jordan, Glenn L.	Chowan University	Hayes, Tim	Ultimate Connection
Langley, Christian	William Peace University	Otis, Katie	The Hidden Soldier: Colonial Women During the American Revolutionary War and Early Nationhood

10-10:45 am

1. Computational Sciences, moderator Dr. Pratheep Paranthaman (Elon)

Student Name	Student Coauthors	Institution	Mentor	Title
Crawford, Khali A.		Fayetteville State University	Bhattacharya, Sambit	Semi-Autonomous Robotic Tank Swarm
Dixit, Samanyu		North Carolina School of Science and Math	Gotwals, Robert R.	Cheminformatics Analysis of the N-methyl-D-aspartate (NMDA) Receptor Neurotoxicity
Govil, Shitij	Aidan Lee, Aiden MacQueen, Garrison Payne	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Using DEM Derivatives from Quanergy LiDAR Data to Classify Wetlands through Machine Learning
Harwell, Kobbe		Fayetteville State University	Chan, Albert	Visualization of U.S. COVID-19 Cases
Howard, Joseph		Appalachian State University	Tashakkori, Rahman	Honey Beehive Traffic Estimator using a Circular Boundary and a Simple Neural Network
Jennings, David		Elon University	Paranthaman, Pratheep K.	Development and Effectiveness of a Gamified Virtual Reality Interview Trainer

10-10:45 am

2. Biological and Life Sciences, moderator Dr. Carmony Hartwig (Catawba)

Student Name	Student Coauthor	Institution	Mentor	Title
Kauffman, Heidi		North Carolina School of Science and Math	Monahan, Kim	Induced Resistance to Alternaria Alternata in Tomato Plants by Gamma-Aminobutyric Acid
Khaire, Archita		North Carolina School of Science and Math	Walsh, Kyle	An Integrated Genome and Phenome-Wide Association Study Approach to Understanding Alzheimer's Disease Predisposition
Leon, Anny S.		Central Piedmont Community College	Yu, Shuangying	Genomic annotation of insulin-like peptide 7 in Drosophila serrata
Lin, Gracie		North Carolina School of Science and Math	Monahan, Kim	Investigation of the joint usage of GSK1016790A and OPC-31260 on restoring mating ability and raising intracellular calcium levels in lov-1 and pkd-2 single and double mutant Caenorhabditis elegans
Lorio, Caroline		North Carolina School of Science and Math	Mallory, Heather	Testing the Effectiveness of Phosphorous Mitigation Methods in Hog Lagoons
Mikula, Olivia		UNC Charlotte	Reitzel, Adam	Diversity and Functionality of Major Intrinsic Proteins in Early Animal and Cnidarian Evolution
Pearson, Morgan		Catawba College	Hartwig, Carmony	Investigating the Peroxidation-Associated Mechanism of Artemisinin-heme Adducts in a Yeast Model System
Putnam, Kendall L.		Meredith College	Carter, Andrea A.	Analysis and Determination of Protein Function as Related to Structure.
Rashad, Layla		Fayetteville State University	Yuan, Jiazheng	Analysis of Wild Soybean Accessions Resistance to PSD
Reyes, Sandibel	Hart, Chay'la	North Carolina Central University	Silver Key, Catherine	An Interdisciplinary Approach to Studying Alcohol Abuse Disorder using Drosophila melanogaster.

10-10:45 am

3. Chemical Sciences, moderator Dr. Tony Rizzuto (Elon)

Student Name	Institution	Mentor	Title
Loeb, Avery	North Carolina School of Science and Math	Bruno, Michael	Design of a small molecule azo-stilbene inhibitor for α -Synuclein
McAfee, Julia	UNC Asheville	McMahon, Caitlin	Expression of LuxS and Synthesis of SRH Based Covalent Inhibitors of Quorum Sensing in Bacterial Biofilms
Roychoudhury, Hrishika	North Carolina School of Science and Math	Bruno, Michael	Green Synthesis of Biogenic Silver Nanoparticles using agri-food byproducts as a novel reducing agent
Smith, William	North Carolina State University	Maggard, Paul	Visible-Light-Driven Water Splitting via Metal Oxide Semiconductors
Vaughan, Sophie	North Carolina School of Science and Math	Anglin, Tim	Sustainable Combination Drug Therapy for the Inhibition of Acetylcholinesterase and Butyrylcholinesterase in Alzheimer's Disease
Volety, Uma L.	North Carolina School of Science and Math	Anglin, Tim	Novel design of an inhibitor for treatment of Human Papillomavirus through the inhibition of the E6/E6AP/p53 ternary complex
Vu, Catherine	North Carolina School of Science and Math	Bruno, Michael	Identification and Investigation of AChE Inhibiting Compound(s) within Lepidium Meyenii (Black Maca)
Wang, Alan	UNC Chapel Hill	Knight, Abigail	A DNA-driven assembly strategy for a decodable biohybrid block copolymer library

10-10:45 am

4. Social and Behavioral Sciences, moderator Dr. Bilal Ghandour (Elon)

Student Name	Institution	Mentor	Title
Armstrong, Molly	Elon University	Ghandour, Bilal	Body Image and Perfectionism
Boone, Hannah	Elon University	Savloff, Leyla	Fear for the Future: Youth Climate Change Activism
Cooley, Abigail	Campbell University	Parker, Paula	Psychological Hardiness: Differences Among Classification and Position in Division I Women's Lacrosse
Dixon, Jamaica	North Carolina Central University	Robinson, William	Instagram Is Harming Women Self-Esteem
Jordan-Hernandez, Elisa	Greensboro College	Eilbaum, Nicolas	Local Police Departments in North Carolina and their Impact on the Lives of Salvadoran Immigrants
Montgomery, Tatyanna D.	Fayetteville State University	Clark, Jelisa	The Balancing Act: Black women, Femininity, and Controlling images

10-10:45 am

5. Education, moderator Prof. Erin Hone (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Alford, Wanya		North Carolina A&T State University	Ofori-Boadu, Andrea	Causes of Learning Motivation Reduction in STEM Students Amid COVID-19 Pandemic.
Bowman, Marviet C.		Fayetteville State University	Okunbor, Daniel	The Impact of Non-Traditional Teaching and Learning at a Historically Black College
Carter, Charles		Fayetteville State University	Wooten, Cynthia B.	Reaching Black Males in the Middle School ELA Classroom
Sampson, Saniya		North Carolina A&T State University	Ofori-Boadu, Andrea	Interactions between Social Self-Concept and Overlay Architecture, Engineering, and Construction (AEC) Career Role Interests in Undergraduate AEC Women
Vanderpool, Jacob		North Carolina A&T State University	Ofori-Boadu, Andrea	STEM Student Perceptions of Adaptation Strategies for Improved Learning Motivation in Future Pandemics
Sierra, Morgan		Elon University	Buchanan, Lisa	Teacher Decision Making: What Factors Inform K-2 Children's Literature Selections?
Wright, Ashlen A.	Dailey, Megan M.	UNC Chapel Hill	Espelage, Dorothy L.	Education, Stress and the COVID-19 Pandemic: A qualitative analysis

10-10:45 am

6. Cultural & Language Studies and Humanities, moderator Dr. Paula Rosinski (Elon)

Student Name	Institution	Mentor	Title
Marzuk, Rene	UNC Greensboro	Kilcup, Karen	Rescuing Environmental Children’s Literature Created by Writers of Color and Child Authors in Nineteenth-Century America
Miller, Kayla	Pfeiffer University	Thompson, Michael	The Geneva Convention of 1954: An Exploration into Multiple Perspectives of the Convention and the Following Implications to the Vietnam War
Rork, Kerry	Duke University	Sorensen, Lee	Women in Art History: 1930-1950: Intellectual Realities
Sandwar, Vishakh	North Carolina School of Science and Math	Marshburn, Drew	The Ethical Implications of Blockchain Application.
Savage-White, Krista	UNC Greensboro	Girma, Hewan	Race and Identity: Finding the North Star Podcast
Sifford, Katelyn	Pfeiffer University	Hume, Doug	Hear Her Story: The Unnamed Woman of Judges 19 and Sexual Assault on College Campuses

10-10:45 am

7. Arts, Design, and Performing Arts, moderator Dr. Casey Avaunt (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Barnes, Mac		North Carolina School of Science and Math	Alter, Carrie	A Walk in Their Shoes
Gatewood, Willow G.		Catawba College	Burgess, Phillip E.	Playing Plants; Artistic and Educational Applications of Biosonification
Kamer, Paul	Ross, Eleanor	Duke University	Sorensen, Lee	Dictionary of Art Historians: Researching African-American Art Historians
Morris, Miranda		Greensboro College	Kuo, Henry	Aristotle Needs an Update: Analyzing Spectacular Tactics in 21st Century Broadway Musicals
Murphy, Dylan		UNC Greensboro	Hudson, Andy	Psychoactive Verbs in Clarinet Pedagogy: A Case Study Utilizing a New Work by Sharneisha Joyner
Hedgepeth, River		UNC Greensboro	Sowell, Natalie	The Gender Gallery: An Expansive Look at Gender Through the Lens of Interdisciplinary Documentary Theatre

11-11:45 am

1. Computational Sciences, moderator Dr. Scott Spurlock (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Li, Benjamin		North Carolina School of Science and Math	Gotwals, Robert	In Silico Study to Enhance Delivery Efficiency of Charged Nasal Spray Aerosols to the Olfactory Region Using External Magnetic Fields
Liu, Elaine	Sam Cook, Maria Kinzie, Noah Civiletti	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Using Machine Learning Models to Predict Presence of Hereditary Cataracts and Pathogenicity from α B-Crystallin Protein
O'Brien, William R.		Appalachian State University	Tashakkori, Rahman	Estimating the Number of Drones at the Entrance of a Honeybee Hive using Machine Learning Tools
Ramamurthy, Sahana	Smith, Lauren	North Carolina State University	Lee, Inhan	Progression of cytokine-mediated signaling pathway activity in the first 24 hours of H1N1 infection
Whitener, Nathan P.		Wake Forest University	Khuri, Natalia	Evaluation of Data Transformation Methods for the Analysis of Single-Cell RNA Sequencing Data
Barnes, Mac		North Carolina School of Science and Math	Gotwals, Robert	Mapping Unbiased Legislative Lines: Implementing a System of Conditional Variational Autoencoders (CVAE's) to Create Equitable Representation

11-11:45 am

2. Biological and Life Sciences, moderator Dr. David Vandermast (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Rosas-Acosta, Virginia		East Carolina University	Peralta, Ariane	Long-term nutrient enrichment effects on soil microbiomes and greenhouse gas production in a coastal plain wetland
Shirolkar, Parth		North Carolina School of Science and Math	Monahan, Kimberly	Investigation of the synergistic and antagonistic properties of rapamycin and fructose on the longevity of <i>Caenorhabditis Elegans</i> .
Sylvestri, Autumn		North Carolina State University	Kolar, Praveen	Comparative analysis and optimization of lignin degradation for the production of high-value end products
Torzone, Sarah		UNC Chapel Hill	Dowen, Robert	LIN-61 regulates growth and lipid homeostasis via suppression of DRL-1 in <i>C. elegans</i>
Wilson, Edwin		North Carolina School of Science and Math	Mallory, Heather	Snails as Bioindicators of Heavy Metals from Coal Ash
Bland, Jessica	Muraco, Kaitlyn	Meredith College	Stutz, Matthew	Coastal Erosion on the North Carolina Coast
Prather, Asia M.		Fayetteville State University	Chao, Shirley	Efficiency of Clove Oil on Mortality and Repellency on <i>Tribolium Castaneum</i>
Wallace, Emma		North Carolina State University	Burford Reiskind, Martha	Population Genetics and Sex Determination in Southern Flounder (<i>Paralichthys lethostigma</i>)

11-11:45 am

3. Mathematics & Quantitative Studies and Physical Sciences & Astronomy, moderator Dr. Chris Richardson (Elon)

Student Name	Student Coauth	Institution	Mentor	Title
Bender, Paula A.		High Point University	Geiger, Brett	Mathematical Model of Learning Disabilities
Boniface, Erick		North Carolina State University	Hong, Hoon	Choosing a variable ordering for Cylindrical Algebraic Decomposition
Fujita, Takumi	Kim, Sean	North Carolina School of Science and Math	Lee, Todd	Minimum number of triangles in a Saturated arrangement of triangles
Magan, Bryant Hank		Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Image Edge Detection using a Modified Ant Colony Optimization Algorithm
Rudins, Katie		Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Reading Recall: A Comparison of Reading Comprehension using Electronic and Paper Media
Unah, Daniel		North Carolina School of Science and Math	Gotwals, Robert	Statistically Analyzing North Carolina Traffic Stop Data
Darekar, Ayesha		North Carolina State University	Bordoloi, Rongmon	Probing the circumgalactic medium using a quadruply lensed quasar system
Keaveney, Aidan		Appalachian State University	Lang, Rafael	Protochime: Testing a New Method for the Direct Detection of Dark Matter
Keaveney, Aidan		Appalachian State University	Gabriela Gonzalez	The Effect of Ground Motion on the Sensitivity of LIGO-Livingston
Sharma, Pranet		North Carolina School of Science and Math	Bennett, Jonathan	Preliminary Evidence for WHIM in Abell 1795 Using X-ray Absorption Spectroscopy
Sriram, Raghav		North Carolina School of Science and Math	Bennett, Jonathan	Effects of Decreased Gravity on the Growth of Brassica rapa Fast Plants

11-11:45 am

4. Social & Behavioral Sciences and Business & Economics, moderator Dr. Cindy Fair (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Mullennix, Amanda		UNC Asheville	Kelley, Heidi	An Ethnographic Study of the Influence of White Supremacy Culture in a Presbyterian Church (U.S.A.)
Parker, Toni		Elon University	Fair, Cynthia	Patient-Provider Decision Making and Risk Perception of Antidepressants in Pregnancy
Tumilty, Victoria		High Point University	Kozma, Cara	What Should be Valued in College Admissions: How Political Identity Influences Views Within the Affirmative Action Debate
Wilson, Kyle	Skylar Raynor, Brenna Divoky, Anna Cuddington	Campbell University	Rushing, Nicole C	Perceived Control as a Mediator Between Emotion Regulation Strategies and Satisfaction With Life
Miller, John		North Carolina School of Science and Math	Dur, Umut	An Analysis of the Asheville City School Student Assignment Mechanism
Porter, Jonathan		East Carolina University	Pulido, Corey	Using Virtual Reality to Motivate Remote Employees to Positively Impact the Effects of Burnout
Walker, Alexis		Fayetteville State University	Wenzel, Nikolai	Examining Immigration from Central America

11-11:45 am

5. Medical and Health Sciences, moderator Dr. Svetlana Nepocatych (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Bhima, Miran		North Carolina School of Science and Math	Anglin, Tim	Development of novel small molecule inhibitor for the cancerous mutant protein, NRAS Q61R
Choi, Rebekah		North Carolina School of Science and Math	John Paul Vavalle	Impact of Atrial Fibrillation on Outcomes in Patients After MitraClip
Jain, Ananya	Mukta Dharmapurikar, Harvik Kolla, Emma Tang	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	The Exploration of the Association between Obesity, Executive Function, and Sleep in Adolescents
McGarry, Raelyn		Elon University	Christopher, Shefali	Evaluation of running kinematics between postpartum runners and nulliparous controls.
Patel, Sahil	Maximillian Wang, Justin Guo	John T. Hoggard High School, Isaac Bear Early College High School	Chen, Cuixian	Machine-Aided Detection of Atrial Fibrillation through R-R Intervals

Rose, Jacob		North Carolina School of Science and Math	Bruno, Michael	Development of a Bioactive, Biodegradable, and Variable-Density 3D Printer Filament for Patient-Specific Bone Reconstructive Implants
Sadhwanji, Vinay	Nick Clark	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Socioeconomic Factors and Their Effect on the Mortality Rate of Covid-19
Shah, Rajit J.		Duke University	Newpher, Thomas	Chronic fatigue syndrome and epigenetics: The case for hyperbaric oxygen therapy in biomarker identification
Sholar, Molli		East Carolina University	Wheeler, Michael	Vitamin B12 Regulation of PUFA Synthesis
Brantley, DeeAnna H		Catawba College	Grieshaber, Amanda	Interventions for Geriatric Patients with Alzheimer's
Jurgens, Hailey E.		Elon University	Madzima, Takudzwa A.	The Effects of Tart Cherry Juice and Whey Protein on Exercise Induces Muscle Damage Recovery

11-11:45 am

6. Environmental Sciences, moderator Dr. Nicholas Bussberg (Elon)

Student Name	Student Coauthor	Institution	Mentor	Title
Ackall, Yasmine	Micah van Praag, Katherine Lopez Calderon, Pristine Onuoha	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	An Assessment of the Effects of Urbanization on Bolin Creek
Barboriak, Josie		North Carolina School of Science and Math	Mallory, Heather	Sphagnum Water Remediation Methods for At-Home Removal of Lead
Donnelly, Abigail		Elon University	Bussberg, Nicholas	Water use and the pandemic: How the COVID-19 pandemic shifted water use patterns at Elon University
Nimbalkar, Jay	Lauren Southwell, Pooja Narasimhan	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Comparing the Efficacy of First and Second Generation Biofuels and Analyzing Future Trends in the Field
Olepu, Nitya	Amil Elangovan, Kaushik Sriram	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Climate Conflict: An examination of the political, economic, and social factors that amplify domestic dissension
Patel, Nikhil	Oliva Rugani, Vrutika Soneji	Summer Ventures in Science and Math (App State, UNC-C, UNC-W, ECU)	Tyler, Lori	Chronic Obstructive Pulmonary Disease: How Climate Change and Air Pollution Pose Urgent Threats
Perdue, Cas E.		UNC Wilmington	Rowe, Shawna	Abundance and Occurrence of Microplastics in the Cape Fear River: A Preliminary Study in Southeastern North Carolina, U.S.A
Reese, Leah C.		UNC Asheville	Gillette, David	Using Macroinvertebrates to Determine Effects of Stream Restoration
Mesimer, Angel		Catawba College	Hartwig, Carmony; Bolin, Jay	Investigating Dietary and Microbial Community Variation between Urban and Rural Coyote (Canis latrans) Populations