



HONORS EDUCATION

I N P R O G R E S S & S E R V I C E



Georgia Tech
Honors Program

Schedule at a Glance

Bill Moore Student Success Center

Friday, February 21, 2025

5:00 – 5:30 PM	Check In	Hall of Success
5:30 – 6:30 PM	Reception	Hall of Success
6:30 – 7:30 PM	Keynote	Clary Theatre

Saturday, February 22, 2025

7:30 AM	Check In Opens	Lobby
7:30 AM	Continental Breakfast Opens	Press Rooms A & B
8:00 – 9:00 AM	Panel Session #1	President’s Suites A, B, C, D
9:15 – 10: 15 AM	Panel Session #2	President’s Suites A, B, C, D
10:30 – 11:30 AM	Poster Sessions	Career Center Lobby, Hall of Success, & Festival Level
11:30 – 12:30 PM	Lunch	Press Rooms A & B
12:30 – 12:45 PM	Awards Ceremony	Press Rooms A & B
12:45 – 1:45 PM	GCHC Director’s Meeting	Press Rooms A & B
12:45 – 1:45 PM	Panel Session #3	President’s Suites A, C, D
2:00 – 3:00 PM	Panel Session #4	President’s Suites A, B, C, D

Georgia Collegiate Honors Council 2024-2025 Officers

President: Dr. Anastasia Lin, University of North Georgia

Immediate Past President: Dr. Alex Hall, Clayton State University

Faculty Vice President: Dr. Amy D’Unger, Georgia Institute of Technology

Student Vice President: Samadhi Attanayaka, Georgia Institute of Technology

Student Member-At-Large: Angelina Rodriguez, Georgia Institute of Technology

Friday, February 21

5:00 – 5:30 PM: Check In | Hall of Success

- Pick up your nametag and conference bag

5:30 – 6:30 PM: Opening Reception | Hall of Success

6:30 – 7:30 PM: Keynote Talk | Clary Theatre

- Welcome: Dr. Steven Girardot, Vice Provost for Undergraduate Education, Georgia Institute of Technology
- Introduction of Keynote: Dr. Amy D'Unger, Faculty Director, Honors Program, Georgia Institute of Technology
- Keynote: "Leveraging C.A.R.E to Ensure Our Pursuit of Progress and Service Better the Human Condition"
 - Dr. Ed Lee, II Senior Director of Inclusivity for the Emory College of Arts and Sciences and Senior Director of the Alben W. Barkley Forum for Debate, Deliberation, and Dialogue

Saturday, February 22

7:30 AM: **Check In Opens (Main Lobby)**

7:30 AM: **Continental Breakfast Opens (Press Rooms)**

8:00 – 9:00 AM: **Panel Session #1**

Lifting Their Voice: Black Agency Across Time | President's Suite A | Moderator: Anna Fischer

- *Attaining Black Political Agency in Reconstruction-Era Louisiana*, **Isabella LoBue** | Reinhardt University
- *Girls In the Hood: Analyzing the Experience of Black Girls through Afro Pessimism*, **Jayda Hendrickson** | Spelman College

The World of Work: Understanding the Changing Labor Market | President's Suite B | Moderator: Cyra Alesha

- *The Future of Computing: Is the Job Market Saturated or Bursting with Opportunity?* **Barok Haile, Ananya Debebe, Simon Yohannes** | Georgia State Perimeter College
- *Self-Analysis in Career Exploration*, **Brecklen Pavlich** | University of North Georgia

Gendered Violence in History and Literature | President's Suite C | Moderator: Tundun Olugbenro

- *Unsex Me Here: Violence and Gender in Shakespeare's Macbeth and Leskov's Lady Macbeth of Mtsensk*, **Thomas Creekmore** | Georgia College and State University
- *The Forgotten Victims: A Comparison of Militarized Rape by the Japanese and Soviet Forces During WWII*, **Brianna Litz** | University of North Georgia

Leveling the Playing Field | President's Suite D | Moderator: Samadhi Attanayaka

- *The Communication Question: Finding a Method of Communication for a d/Deaf or Hard of Hearing Child*, **Addeline Wright** | Valdosta State University
- *Prostheses and Their Role in the Perception of Disability*, **Aparna Srinidhi Jagannathan** | Georgia Institute of Technology

9:15 – 10:15 AM: Panel Session #2

Refugees: Policy and the Power of Public Perception | President's Suite A | Moderator: Anuva Agrawal

- *Refugees in Europe: A Constructivist Perspective*, **Sara Gonzalez Gonzalez** | University of North Georgia
- *Faith Based Refugee Organizations and U.S. Refugee Resettlement Policies*, **Skylar Kirkpatrick** | Augusta University

Suppressed Voices: The Effects of Censorship | President's Suite B | Moderator: Samadhi Attanayaka

- *Censorship Influenced by the Irish Catholic Church: An Honors in Ireland Study Abroad Project*, **Kathleen Pine** | University of West Georgia
- *The Panopticon of Gender: A New Foucauldian Critique of "Attack Helicopter,"* **Sal Woessner** | Columbus State University
- *Educational Censorship and Christian Conservatism*, **Alexandra Soto** | University of North Georgia

Setting Students Up to Fail | President's Suite C | Moderator: Jalyn Fisher

- *The Impact of Restrictive Sociopolitical Legislation on Nonwhite Enrollment in Higher Education*, **Kathryn Cooper** | Georgia College and State University
- *Credit Card Use and Financial Literacy in College Students*, **Sofia Legoff Flores** | Georgia College and State University
- *The Silent Struggle: How South Korea's English Education Excels Yet Fails*, **Halie Kim** | Georgia State Perimeter College

Indigenous People: Preserving Their Culture and Contributions | President's Suite D | Moderator: J'Avani Stinson

- *Mitákuye Oyás'iny : An Analysis of Native North American Cosmologies and Western Science*, **Cecilia Kee** | Valdosta State University
- *The 14th Amendment and Native American Citizenship: The Overlooked Implications for Indigenous Rights*, **Daniela Rangel** | Reinhardt University
- *Learning to Resist: Rhetoric and Education in Life Among the Piutes*, **Allison Decker** | Georgia College and State University

10:30 – 11:30 AM: Poster Sessions

Career Center Lobby

1. *Deadly to Diminished*, **Paige Alexander, Teagan Lamp, Jack Dougherty** | University of North Georgia
2. *Social Determinants of Tooth Loss of Older Adults: Evidence from State Level Data Analysis*, **Lexie Bailey** | Augusta University
3. *Evaluating Sapien Prosthetic Valve Performance in TAVR: The Impact of HALT and Calcification*, **Aditi Bang** | Georgia Institute of Technology
4. *Finding, Isolating, and Purifying the Bacteriophage JoyFul*, **Emma Boyen** | University of North Georgia

Hall of Success

1. *Interviews with Professionals in Psychology*, **Beatrice Brinkley** | Columbus State University
2. *"There's No Roller Coasters Underwater!" How Children Reference Generic Counterexamples*, **Kathryn Brook** | Georgia College & State University
3. *Appalachian Resident's Inaccessibility to Hospitals*, **Lavender Bumgarner, Emma Goss, Emma Pittman** | University of North Georgia
4. *Vector and Pathogen Ecology of Invasive Wild Pig (*Sus Scrofa*) Wallows in the Southeastern U.S.*, **Lilyanne Callaham** | University of Georgia
5. *Initial Detection of Rat Lungworm, a Human Pathogen, in Invasive Snails in Georgia*, **Caley Chun** | Middle Georgia State University
6. *Leveraging Tubule Segmentation and Virtual Staining for Prognostic Insights in Breast Cancer Pathology*, **Rohan Dalal** | Georgia Institute of Technology
7. *ATF6-Mediated Regulation of Cone Photoreceptor Development: Mechanistic Insights*, **Aarti Girdhar** | University of Georgia
8. *Does Locus of Control Influence Risk Preferences in Tasks with Perceived Control?* **Morgan Gosdin** | Georgia College and State University
9. *Basics Of Raising a Bacteriophage*, **Gabrielle Grogan** | University of North Georgia
10. *Using Machine-Learning Techniques in R to Uncover Variables Related to Overdoses*, **Hanzhen Guo** | University of North Georgia
11. *Complete Genome Sequencing and Annotation of the *Gordonia Terrae* Bacteriophage MooreStings*, **Daniel Hastings** | Georgia College and State University
12. *Identifying Genetic Loci Responsible for Hybrid Necrosis in Crosses within *Mimulus Guttatus**, **Erin Howard** | University of Georgia
13. *Robust Determination of Simultaneous SCG and ICG Fiducial Points via Patch Sensors*, **Fatih Inan** | Georgia Institute of Technology
14. *Missing the Message to Brain Tumor Patients: A 2023 Twitter Analysis Among Patients, Informal Caregivers, and Healthcare Professionals in Glioblastoma Multiforme*, **Jay Jani** | Georgia Institute of Technology; Emory School of Medicine Department of Neurosurgery
15. *Formulation of GLP-1 Polymer-Nanoparticle (PNP) Hydrogels for Treatment of Type 2 Diabetes*, **Sara Kapasi** | Georgia Institute of Technology
16. *Analysis of Transposable Elements in *Sarcocystis Neurona**, **Zayna Khan** | University of Georgia
17. *Purification of a Recombinant GFP-Preptin Fusion Protein*, **Apoorva Kollaram, Gabriela Mieles, Meghan Koh, Chayce Schuler** | Columbus State University

18. *Etudes for Election: Interpreting the Sonic Rhetoric of Presidential Nominees Hillary Clinton and Kamala Harris*, **Claire Kosobud** | Georgia College and State University
19. *The Farming Crisis*, **Nadine Kumbu-Smart** | Georgia Gwinnett College
20. *Synthesis, Characterization, and Bioactivity of Alloxan Benzylthiosemicarbazone (ALL-BTSC) and its Palladium Complex on Topoisomerase IIa*, **Jayden Kypri** | Georgia College and State University
21. *Exploring the Factors Behind Disappearances in the Southern Appalachian Mountains*, **Jordan Lindsey** | University of North Georgia
22. *Polarized Culture: How Polarization Has Abated Cultural Voting Practices*, **Sophia Magana** | University of North Georgia
23. *Exploring the Restorative Justice Model on College Campuses*, **Claudia Marban** | University of North Georgia
24. *Machine Minds and Human Hands*, **Christopher Mason** | Augusta University
25. *A Cookbook for Planet Formation: Establishing a Classification Framework for Protoplanetary Disks*, **Anna-Sophia Mehta** | University of Georgia
26. *The History of BMI: An Analysis of Body Mass Index and its Utility as a Health Indicator*, **Chloe Melton** | Georgia College and State University
27. *Investigation of a Double-Keeper Heaterless Hollow Cathode as a Source of Microthrust*, **Nicolas Montero** | Georgia Institute of Technology

Festival Level

1. *Exploring the Genetic Landscape of Ulcerative Colitis Through Bioinformatics*, **Ariana Mraz** | Georgia Highlands College
2. *Climate Injustice in the Global South: Taking Action*, **Kayley Owens, Bethany Tapee** | Georgia College and State University
3. *Unraveling FXR Gene's Impact on Mouse Eye Blood Vessel Formation*, **Reeya Patel** | Augusta University
4. *Slow but Steady: The European Commission's Goals for Achieving Gender Equality*, **Aidan Pavlich, Emilyn Slemons** | University of North Georgia
5. *The Magdalen Laundries and the Art of Imagination*, **Sarah Pirkle** | Valdosta State University
6. *Design and Investigation of Selective Small Molecule Inhibitors for Peptidylarginine Deiminase 4 in the Context of Rheumatoid Arthritis*, **Hailey Pruitt** | University of North Georgia
7. *Accountants in the Age of Tech: Will You Keep Up?* **Jiane Louella Rabara** | Columbus State University
8. *Off the Cliff: Case Study of Drug Overdose Deaths in Georgia*, **Kennedy Ragin** | University of West Georgia
9. *New Gene Annotation and Orthology Analysis in Sarcocystis Neurona*, **Avni Rajit** | University of Georgia
10. *Optimizing CubeSat Bus Design for Versatile Payload Integration: Standardization Through Additive Manufacturing*, **Ashwath Rajkumar** | University of Georgia
11. *Uncovering the Secrets of Living Longer and Healthier Lives*, **Emma Reece** | University of North Georgia
12. *N-myristoylation Promotes the Tethering of Cas9 Protein with the Cytoplasmic Membrane for its Package in the Extracellular Vesicles*, **Sophie Ren** | University of Georgia
13. *Improving Search Queries for Researcher Productivity Assessments in Biomedical Research*, **Adam Reynolds** | Augusta University

14. *Copy Number Variations in AKAP11 In Patients Diagnosed With BD-I*, **Shabnam Rezai** | University of North Georgia
15. *Limiting Nutrient Analysis on Lake Allatoona Watershed*, **Hannah Rutledge** | Georgia Highlands College
16. *Evolving Trends in Cannabis Use Disorder: Adverse Reactions to Cannabis Use and Provider Familiarity with Emerging Medications*, **Taylor Sabato** | University of Georgia
17. *The Kentucky Fugates*, **Natalee Schiffhauer, Madelyne Tanner** | University of North Georgia
18. *Preserving Latent Prints for Forensic use Through Debris Testing: Collaborative Project with Georgia Bureau of Investigation*, **Alyssa Schmitz** | Columbus State University
19. *The Case for Designating Memory Care Facilities as Skilled Nursing Facilities in Georgia: Enhancing Care for Dementia Patients Through Legislative Reform*, **Dacia Shackelford** | Georgia Highlands College
20. *Cars are Just Computers that Happen to Drive: Exploring ECU Exploitation Utilizing Cybersecurity Tactics*, **Dagen Shehorn** | University of North Georgia
21. **Genome Sequence and Annotation of Arthrobacter Globiformis Phage Ruchi (AS1) from Dahlonega, Georgia**, **Brooke Tatum** | University of North Georgia
22. *Engineered 3D In Vitro Bone Niche for Modeling Breast Cancer Metastasis in Bone*, **Dawson Templin, Caroline Coggin** | University of Georgia
23. *Building Coping Skills in a 3rd -5th Grade Classroom for Students with Emotional and Behavioral Disorders*, **Shani Thompson** | Georgia College and State University
24. *Cultural Competence and Cultural Humility in Social Work: Ensuring Effective Service and Progress in a Multicultural Society*, **Angelica Williams** | Middle Georgia State University
25. *The Nazi Twin Studies: An Ethical Nightmare*, **Emma Wilson, Mak Levine** | University of North Georgia

11:30 AM – 12:30 PM: Lunch & Business Meeting | Press Rooms A & B

12:30 – 12:45 PM: Awards Ceremony | Press Rooms A & B

12:45 – 1:45 PM: Director’s Meeting | Press Rooms A & B



12:45 – 1:45 PM: Panel Session #3

Commodities and Culture | President's Suite A | Moderator: J'Avani Stinson

- *Ghost of Tsushima: A Video Game's influence on Popular Culture and Feudal Japan*, **Chloe Curbelo** | Columbus State University
- *Coffee Substitutions in the Confederacy During the Civil War*, **Juliann Mackiewicz** | Georgia College & State University
- *Art Under a Totalitarian Regime: Brazilian Neoconcrete Art Combatting Censorship*, **Maryellen Hagberg** | Georgia College and State University

Learning How to Learn: Tailoring Education to the Individual | President's Suite C | Moderator: Anubha Mahajan

- *Investigating the Use of Metacognitive Strategies in Reading Primary Scientific Literature*, **Sarah Miller** | University of North Georgia
- *Interdisciplinary Unit of Study for Eighth Grade Math and Science Classes*, **Jarrett Huckaby** | Columbus State University
- *Big Five Personality, Test Anxiety, and Distraction on Academic Performance: A Pilot Study*, **Melissa Brown** | University of North Georgia

Controlling the Narrative: The Politics of Rhetoric | President's Suite D | Moderator: Fatih Inan

- *A RHETORIC OF COMPLACENCY: An Ideographic Analysis of Bernie Sanders' 2016 DNC Speech*, **Jack McKinney** | Georgia College and State University
- *The American Public Square: Who Really Owns It?* **Kassie Arps** | Georgia College and State University
- *Media: The Future of Politics*, **Arizona Renfro** | Valdosta State University

2:00 – 3:00 PM: Panel Session #4

From Micro to Macro: Examining Health Outcomes and Technology | President's Suite A | Moderator: Melody Lee

- *U.S.-Japan Differences in Life Expectancy and Societal Practices*, **Autumn Cleymans, Zach Furbush, Sheila Ganley, Emma Reece** | University of North Georgia
- *Dynamics of Cell Spreading with Hyaluronan Glycocalyx*, **Emma Poma** | Georgia Institute of Technology
- *Artificial Intelligence for Anterior Cervical Discectomy and Fusion (ACDF) Clinical Decision Support*, **Anubha Mahajan, Anupama Nair** | Georgia Institute of Technology

The Art of War: People, Policy, and Purpose | President's Suite B | Moderator: Caroline Orbock

- *Honor and Justice in the Latin Chronicles of the Fourth Crusade*, **Andrew Elsenrath** | Valdosta State University
- *Legions of Americans and the American Legion: Development of Veteran Culture Post World War I*, **Hayden Bennett** | Columbus State University
- *Nuclear Postures and Geopolitical Shifts in the Modern Era*, **Samantha Paton** | Georgia College and State University

The Methods of Modeling: Finding the Right Fit | President's Suite C | Moderator: Tundun Olugbenro

- *Choosing the Right Model*, **Andrea Cromeyer Gallardo** | Georgia Institute of Technology
- *Progress on Polyethylene- and Polypropylenimine for CO₂ Capture by Molecular Dynamics Simulations*, **Guilherme Ryuji Weber Nakamura** | Georgia Institute of Technology
- *Exploring Limitations and Realism in Proto-Languages*, **Rylea Swafford** | University of West Georgia
- *A Universal Chord Theorem for Triangulable Spaces*, **Kalev Martinson** | Georgia Institute of Technology

Honors Showcase: A Celebration of Creativity and Innovation | President's Suite D | Moderator: Imanol Pizana-Hernandez

- *Untitled Collection*, **Nahsir Johnson** | University of West Georgia
- *Barriers To Addiction Treatment Among the Hispanic Population in The U.S.*, **Jessica Sandoval** | Georgia Highlands College
- *Artificial Intelligence: Our Future or Our End?* **Rohan Shah** | Columbus State University
- *The Seven Husbands of Evelyn Hugo: Taylor Jenkins Reid Dramatic Interpretation*, **Brooklyn Zeagler** | Middle Georgia State University

An extra special thanks to the following people, who made GCHC 2025 possible:

Student Planning Committee Co-Chairs:

Samadhi Attanayaka, Angelina Rodriguez

Volunteers:

Anuva Agrawal, Natalie Ajemian, Cyra Alesha, Ava Bingaman, Anaiia Carter, Caitlyn Carter, Kaitlyn Crutcher, Sudiksha Das, Pema Deki Yangden, Anna Fischer, Jalyn Fisher, Estephanie Gonzalez, Fatih Inan, Anushka Jain, Henry Kester, Kylee Lange, Aarush Lanjharia, Melody Lee, Emma Grace Lumpkin, Anubha Mahajan, Oluwatundunmininu (Tundun) Olugbenro, Caroline Orbock, Imanol Pizana-Hernandez, Bavisha Rajesh, Kori Robinson, Samrita Shetty, J'Avani Stinson, Sriya Surapaneni, Sanjana Tamma, Jason Wang, Dylan Winer

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