

SENIOR SHOWCASE PRESENTATION SCHEDULE

Friday, May 24, 2024

BLOCK ONE: 8:50-10:10

| ROOM | STUDENT/SEMINAR | TITLE |
|------------|---|---|
| Auditorium | Music Composition and Recording Stel Beazley (Chesterfield); Jude Curran (Richmond); Jonah Neuwirth (Henrico); Avery Redmond (Chesterfield); Evan Solomon (Chesterfield); Ces Wells (Hanover); Declan Wise (Chesterfield) | |
| Blackbox | Fashion and Style: The Implications of the Clothes on Your Back Elizabeth Adams (Henrico); Kristin Bishop (Chesterfield); Leland Bonkovsky (Richmond); Rachel Dai (Henrico); Mia Juarez (Chesterfield); Lina Khatcheressian (Chesterfield); Naina Kondragunta (Chesterfield); Mykavla Mann (Richmond); Mikavlah McCarthy (Chesterfield) | |
| 230 | Gender & Culture in the Middle East and North Africa: Traversing the Alleyways of Oppression in MENA Connor Fabrie (Richmond); Zara Lenkowitz (Chesterfield); Taylor Saville (Chesterfield); Declan Wasnock (Chesterfield) | |
| 231 | Gender & Culture in the Middle East and North Africa: Threats to Women in the MENA Region Milo Benedetti (Richmond); Jaliyah Hairston (Petersburg); William Sams (Chesterfield); Sandhu Amandeep (Chesterfield) | |
| 232 | Gender & Culture in the Middle East and North Africa: An Eye for an Eye: Cracking the Code of Gender Norms in MENA Nina Broderick (Richmond); Parker Rowley (Richmond); Natalie Shannon (Richmond); Shabaz Wali (Chesterfield) | |
| 106 | Moneyball: The History and Sabermetrics of Baseball Crash Ackerly (Richmond); Bryce Davitt (Chesterfield); Jakob Dean (Chesterfield); Eric Hu (Henrico); Liam Reed (Chesterfield); Will Richter (Henrico); Sam Wheeler (Chesterfield) | |
| 126 | Yash R Saxena (Henrico) Henley Mills (Goochland) | Neurostimulation and Neural Networks: Treating Neurological Conditions with Machine Learning Spot the Robot: Comparing Differentiation Techniques Between AI and Human-Generated Essays |
| 202 | Kalliyam Eam (Chesterfield) Aimee Salazar Luna (Chest.) | Harvesting Hope: Cultivating Solutions for Food Deserts Lack of Neurosurgical Care in Tanzania and Potential Solutions How to Increase it |
| 204 | Carleigh Brescia (Chesterfield) Alice Bowman (Chesterfield) | Who Deserves Care? How Virginia's Behavioral Health System Cares for Its Most Vulnerable Populations The Impact of the Dobbs Decision on In-Vitro Fertilization, and How to Take Preventative Action |
| 237 | Arjun Azhagappan (Chesterfield) Andrew Eaton (Chesterfield) | Exploring the Risks of Biomaterials in Osteogenic Development Solution electrospinning various polymers for industrial application |
| 244 | Waverly Tang (Chesterfield) Anna Newell (Henrico) | Occupational Safety in a Chemical Plant Addressing Anxiety in Pediatric Dentistry |
| 301 | Katherine Streeter (Richmond) Izzy List (Chesterfield) | Overuse Injuries in the Knee: Treating the Most Complex Joint in the Human Body Vector Borne Disease: How Tree Density can Influence Mosquito Populations |
| 303 | Matthew Favale (Chesterfield) Michael Lusk (Henrico) | The Importance of Ukraine to the United States and a 21st Century Domino Theory Evaluation of Risk Factors Contributing to the Silicon Valley Banking Crisis |
| 313 | Ethan Choe (Goochland) Sadie Hall (Goochland) | Economic Thought Behind Placing My Hotdog Stand A Sea of Possibilities: Algae-Based Biofuels in Aviation |

BLOCK TWO: 10:20-11:40

| ROOM | STUDENT/SEMINAR | TITLE |
|------------|--|--|
| Auditorium | Music Composition and Recording Lucia Gambacini (Chesterfield); Gabriel Harding (Richmond); Briana Lawson (Goochland); Yamato Motai (Chesterfield); Jo Vinson (Richmond); Henry Walworth (Hanover) | |
| Blackbox | Fashion and Style: The Implications of the Clothes on Your Back Jackson Baese (Richmond); Lucie Bouton (Richmond); Eli Deane (Hanover); Emiley Griffin (Hopewell); Heather Lang (New Kent); Luke Mauzy (Chesterfield); Sophia Pareti (Chesterfield); | |
| 302 | Wilderness and the American Mind: De-Extinction Jane Clare Boshier (Richmond); Max Economy (Chesterfield); Charlie Haacke-Golden (Richmond); Preston Huyard (Richmond); Kate Lindley (Hanover); Zinnia Nygren (Richmond) | |
| 106 | Moneyball: The History and Sabermetrics of Baseball Pooshan Chaudhuri (Henrico); Alyssa Jones (New Kent); Nayan Mehta (Henrico); Alex Percey (Henrico); Nihal Pothunoori (Henrico); Nate Stewart (Chesterfield); Joia Weinstein (Richmond) | |
| 126 | Samuel Choi (Hanover) Nate Winters (Richmond) | Piezoelectric Materials in Engineering Splash: Investigating the Physics of Bouncing Water Droplets |
| 202 | Bharathi Kancharla (Henrico) Kamna Kalkunte (Chesterfield) | Locking In: Enhancing Attention Span in Elementary Students Little Arms, Big Decisions: Investigating Vaccine Hesitancy in Pediatrics |
| 204 | Keira Kim (Hanover) Franklin Heyming (Richmond) | Using Anti-solvent Crystallization and Slug Flow to Improve the Quality of a Tuberculosis Antibiotic Intravascular Lithotripsy: Shockwave Treatment for Arterial Calcification |
| 237 | Lambri Phillos (Richmond) Nina McGinnis (Henrico) | Media Medley: Navigating Content Selection in Journalism Why Should I Care? Unlocking the Heart of Climate Action |
| 244 | Isabella Kenney (Henrico) Sibi Sundar (Chesterfield) | Expansion & Evolution: Bridging Generational Divides in Business How to Build Your Brand |
| 301 | Phoenix Unzueta (Chesterfield) Phu Vo (Henrico) | Freedom of Information in Virginia: Is it really that free? America's Indian Immigration Crisis and Systematic Reform |
| 303 | Rowan Mueller (Chesterfield) Sandor Preda (Henrico) | Harnessing Light: Exploring Nonlinearities in Optics and Photonics Great Graphene: The Future of Electronics |
| 313 | Elaina Shifflett (Chesterfield) Divya Patel (Chesterfield) | Lost in Translation: Evaluating Language Interpretation Services in Pediatric Emergency Medicine Beyond the Filter: Comparing Hemodialysis and Peritoneal Dialysis on Patients' Quality of Life |
| 334 | Leah Winder (Chesterfield) Caitlyn Smith (Powhatan) | Exercise and Physical Therapy: Are they Effective Treatments for Osteoarthritis? Postpartum Depression Screening: Effectively Identifying Depression After Childbirth |

LUNCH: 11:40-12:20

BLOCK THREE: 12:20-1:40

| ROOM | STUDENT/SEMINAR | TITLE |
|-------------------|--|---|
| Auditorium | Digital Video Christine Datovech (Hanover); Patrick Doherty (Chesterfield); Oliver Frankel (Richmond); Blake Gilman (Goochland); Virginia Griffin (Richmond); Saxon Kelleher (Hanover); Chloe Larimer (Chesterfield); Jalaia Moore (King & Queen); Tobias Moore (Richmond); Aiden Vick (Richmond) | |
| 302 | Wilderness and the American Mind: Electric Vehicles Daphne Bobb (Chesterfield); Timothy Porter (Henrico); Jason Pringle (Chesterfield); Hugo Seehaver (Chesterfield); Caden Van Valkenburg (Richmond); Ryan Weickert (Chesterfield) | |
| 120 | Evolution of London: The Making of a Metropolis Sydney Brewer (Chesterfield); Lauren Briggs (Richmond); Caroline DeGuenther (Richmond); Jason Elkins (Chesterfield); Darby French (Chesterfield); Christopher Langford (Chesterfield); Sam McNamee (Chesterfield); Emmalia Notarnicola (Richmond); Catherine Pinar (Chesterfield); Marshall Winneberger (Chesterfield) | |
| 238 | Slavic Folklore Hunnewell (Henrico); Ben Lashley (Chesterfield); Matilde Quilici (Richmond) | |
| 126 | Skylar Schuetze (Henrico) Lauren Blake (Richmond) | Empowering Diversity: Assessing the Role of Ranked Choice Voting in Inclusive Democracy Rolling the Dice on Democracy: Unveiling the Role of Referenda through Richmond's Casino Debacle |
| 202 | Shreesh Kalagi (Henrico) Aashka Shah (Henrico) | Myoblast Injection Therapy: A Look into Novel Muscular Regeneration Techniques The Impact of Historical Discriminatory Practices on Current Cancer Outcomes |
| 204 | Hareem Mubashar (Chesterfield) Yuna Chen (Henrico) | All the Things that Divide Us: Immigration Law and the Implications of Gentrified Eugenics Hold!: An Exploration of the Visual and Auditory World in Theater |
| 237 | Natalie Xie (Henrico) Sruthi Vegunta (Henrico) | Applying the Hippocratic Oath Outside the OR: Methods for Managing and Mitigating Medical Waste Intellectual Property and the Rise of AI |
| 244 | Risshi Naavaal (Henrico) Devesh Kumar (Henrico) | Optimizing Generative AI Output by Varying Model Settings for Improved Performance An Ensemble Approach for Improving Model-Based Reinforcement Learning in Robotic Control |
| 301 | Rachael Sharon-Gupta (Chest.) Prisha Shah (Hanover) | Mother Knows Best? Contrasting Perceptions of Neuromuscular Disorder by Patient vs. Patient's Mother Sugar, Yes Please: Comparing Fabrication Methods for Low-Cost Continuous Glucose Monitors |
| 303 | Jenna Minor (Prince George) Bridget Plank (Richmond) | Building up Bambinos: Sensory and Motor Development in Infants Botox or Botoxic: The Effect of Botox Injections on Overall Well-Being |
| 313 | Emily Rucker (Chesterfield) Grace Yoo (Chesterfield) | Behind the Strain: Patterns, Origins, and Preventative Measures for Lower Back Injuries in Young Athletes A Survival Guide to Diagnosing Pediatric Skin Conditions |
| 334 | Aliya Ather (Chesterfield) Lucy Holmstrom (Chesterfield) | Closing Healthcare Disparities to Minimize SUDEP (Sudden Unexpected Death In Epilepsy) The Fentanyl Crisis and Drugs in America: An Assessment of Drug Programs in Henrico Country |
| 201 | Imran Aly M. Rassiwalla (Hen.) Jackson DeHaven (Hanover) | "A Hidden War": Iran's Sanction Evasion and the future of America's Economic Dominance How Underpaid Can a Public Defender Be: Evaluating the Constitutionality of Modern Indigent Defense |

BLOCK FOUR: 1:50-3:10

| ROOM | STUDENT/SEMINAR | TITLE |
|-------------------|---|---|
| Auditorium | Digital Video Christine Datovech (Hanover); Patrick Doherty (Chesterfield); Oliver Frankel (Richmond); Blake Gilman (Goochland); Virginia Griffin (Richmond); Saxon Kelleher (Hanover); Chloe Larimer (Chesterfield); Jalaia Moore (King & Queen); Tobias Moore (Richmond); Aiden Vick (Richmond) | |
| Blackbox | Black Literature/Black Lives: African American History and Culture Lillian Claiborne (Richmond); Olivia Elliott (Chesterfield); Chelsea Hagan (Chesterfield); Chae Jones (Charles City); Ansa Kanwal (Chesterfield); Cory Wagaman-Eure (Richmond) | |
| 238 | Slavic Folklore Ryder Bray (Richmond); Grace Crislip (Richmond); Lily Postma (Chesterfield); | |
| 126 | Aarav Kalluri (Chesterfield) Bilal Ahmad (Henrico) | A Comparison of Superficial Siderosis and Alzheimer's Disease Circulating Tumor DNA: A Predictor of Colorectal Cancer Recurrence |
| 202 | James Sneddon (Richmond) Milind Murthy (Richmond) | Punching Above Your Weight: How Data Analytics allow Soccer Teams to Level the Playing Field How to have that Dogg in you: A Deep Dive Into Culturally Impactful Advertising |
| 204 | Yeeva Chunnanond (Hanover) Gavin Hoyt (Henrico) | "Dang, That's Really Far Away": Comparing Linear, Atmospheric, Focus, And Isometric Perspectives The Music of Marketing: an Exploration of Business |
| 237 | Sivani Nemani (Henrico) Natalie Koehn-Wu (Hanover) | Where's My Vape!? The Role of Parents and Community in Youth Tobacco Use Brain Basics: A Year in Neuroscience |
| Forum | Nithya Ravula (Henrico) Sowmya Narra (Henrico) | Nanotechnology in our Environment Fostering Learning Equality and Enhancing Accessibility for Blind/Visually Impaired Children with a 3D Scratch Interface |
| 201 | Shorya Malani (Henrico) Lydia Woodall (New Kent) | Examining localization in robotics Fault Injection Testing in Quadcopter Drone Systems |
| 301 | Nishka Patel (Chesterfield) Ishaan Dave (Chesterfield) | Exoplanets: Which One's Our Best Chance at Life? Cobotics: The Art and Application of Human-Robot Collaboration |
| 303 | Nitya Goyal (Henrico) Sania Jain (Henrico) | Cyclic Voltammetry and Its Applications The Dish on Dining: Starting a Restaurant |
| 313 | Rohini Mudinur (Henrico) Kasia- Esmeralda Wasiak (Henrico) | The Dictionary of Bioethics Death and Birth: Why Are American Mothers Still Dying? |
| 334 | Owen Miller (Chesterfield) Rehaan Jain (Chesterfield) | Modern Impacts of Primary Care Orthopedic Surgery: ACLs and 3D Printing |
| 244 | Parth Tornekar (Henrico) | The Fault in Our Chairs: The Fusion of Material Science, Accessible Design, and Psychology in Furniture |