



2025
Faculty and Student
Research Conference

Mercer University
Atlanta Campus
Administration & Conference Center

Saturday, April 5th, 2025
10am - 3pm

Sponsored By:

The Office of the Provost
College of Professional Advancement
College of Health Professions

Welcome to the 15th annual Atlanta Faculty and Student Research Conference. This program contains information about the various presentations, including specific times and locations.

Conference Schedule Overview

<u>Time</u>	<u>Session Type</u>
9:30-10:00	Registration
10:00-10:20	Welcome & Awards
10:20-11:20	Keynote Panel Discussion
11:30-12:20	Poster Session 1
12:30-1:00	Lecture Session 1 (15 & 30 minute talks)
1:00-1:30	Lunch
1:30-2:20	Poster Session 2
2:30-3:00	Lecture Session 2 (15 & 30 minute talks)

WELCOME & SWILLEY LIBRARY RESEARCH AWARDS 10:00 - 10:20

2nd Floor Auditorium

1. **Welcome.** Priscilla Danheiser, Dean, College of Professional Advancement, & Wayne Glasgow, Senior Vice Provost for Research, Mercer University
2. **2025 Swilley Library Student Research Awards Presentation.**

Presenter: Kim Eccles, Associate Professor and Director of the Swilley Graduate and Professional Library.

Winner: Tyliahia Williams, College of Professional Advancement. Interactive Public Health Dashboard with Predictive Analytics for Academic and Research Use.

Runner Up: Anuradha Dey, College of Pharmacy. Management of Parkinson's Disease Using 3D-Printed Transdermal Films of Pramipexole Dihydrochloride.

KEYNOTE PANEL DISCUSSION

10:20 - 11:20

2nd Floor Auditorium

Machine Learning and Artificial Intelligence: Futurist Perspectives from Varied Disciplines

The 2025 Keynote Panel is comprised of professionals from varied disciplines sharing their research and expertise on the future of machine learning and artificial intelligence.



S.M. Shafiul Hasan, Ph.D. Assistant Professor of Computer Science, College of Professional Advancement, Mercer University.



Xiao Hu, Ph.D. Asa Griggs Chandler Chair Professor at the Nell Hodgson Woodruff School of Nursing and Associate Director of the Center for Data Science, Emory University.



Sashank Varma, Ph.D. Professor, School of Interactive Computing and School of Psychology, Georgia Tech Institute of Technology.

POSTER SESSION 1

11:30 – 12:20

2nd Floor Atrium

1. **Effects of Early Sports Specialization vs. Multi-Sport Participation on the Risk of Sports Injuries.** Amari Lyons & Rachel Le, College of Health Professions.
2. **The Occurrence of Heat Related Illnesses Among Athletes with Sickle Cell.** Zanetria Shorty & Rachel Le, College of Health Professions.
3. **The Effect of Patient Adherence to Prescribed Home-Based Exercise Programs on Recovery Progression.** Leda Dixon & Rachel Le, College of Health Professions.
4. **Effect of Excessive Pitching on Upper Extremity Instability in High School Baseball Players.** Taylor Baltrus & Rachel Le, College of Health Professions.
5. **Do Adolescent Football Athletes Sustain More Knee Injuries While Playing on Artificial Turf.** Janae Evans & Rachel Le, College of Health Professions.
6. **Pre-prosthetic Rehabilitation for Bilateral Transfemoral Amputation Patient Secondary to Sepsis.** Sydney Widenhouse & Deborah Wendland, College of Health Professions.
7. **Measuring Physical Activity in a Child with Severe Motor Impairment with the ActivPAL4: A Case Study.** Lisa Fraher & Deborah Wendland, College of Health Professions.
8. **Head, Shoulders, Swimmer's Woes: Prevention and Treatment Techniques for Swimmer's Shoulder.** Ivan Glotov, College of Health Professions.
9. **Supporting Families: Family-Centered Care for Parents of a Child with Autism and Delayed Ambulation.** Kennedy Hardemion & Lisa Fraher, College of Health Professions.
10. **Clinical Pharmacy-Public Health Interventions to Control Chronic Disease in an Underserved Community.** Dawood Sultan, Jamessa Cummings, Ahmed Abdulrahman, David Ombengi, Gabrielle Edwards, Sharnelle Edwards, Rolph Fortune, Sonita Simelus, & Christine Vo, College of Health Professions.

POSTER SESSION 1 (cont.)

11. **Premature Death in Rural Georgia, USA: Evidence of the Continued Existence of Two Georgias.** Dawood Sultan, Christine Vo, Diana Ghebrezadik, Sonita Simelus, Yessenia Castillo, Shravani Sirsat, Iyanuoluwa Daomi, Suzie Madden, David Ombengi, Faith Luke, Brittany Daniels, & Michelle Penn-Marshall, College of Health Professions.
12. **7th Time's the Charm.** Amari Oliver & Amanda Clark, College of Health Professions.
13. **A Review on Uterine Fibroids.** Thao Ngo, College of Health Professions.
14. **Navigating the Complexity of Interstitial Cystitis: A Case Study.** Graham Bryant, College of Health Professions.
15. **Investigating the Role of Gut Microbiota Metabolite in Obesity-Associated Diabetes and Hypertension.** Nimi Pullenkunnel Simon, Tro Nguyen, Jenny Nguyen, Thompson Le, Emmanuella Ezewudo, Morgan Jones, Sreelakshmi Menon, Farzana Zerine, Mahavir Chougule, & Raquibul Hasan, College of Pharmacy.
16. **The Roles of Free Fatty Acid Receptors in Migration of Renal Cell Carcinomas.** Mohsina Mukti & Nader Moniri, College of Pharmacy.
17. **Innovative Approaches to Treating Preeclampsia via Endothelin Pathway Regulation.** Samira Sooreni Oliale & Raquibul Hasan, College of Pharmacy.
18. **Targeting the Macrophage Endothelin System to Treat Salt-Sensitive Hypertension.** Nazia Hoque, Sreelakshmi Menon, Morgan Jones, Tro Nguyen, Emmanuella Ezewudo, Farzana Zerine, Nimi Simon, & Raquibul Hasan, College of Pharmacy.
19. **Role of a Novel Antagonist of Endothelin System in Treating Cognitive Deficit in Alzheimer's Disease.** Mashmum Shahid, Taufiq Rahman, & Raquibul Hasan, College of Pharmacy.
20. **Probing the Role of Free-Fatty Acid Receptor-4 (FFA4) as a Novel Target for Parkinson's Disease.** Farnoosh Moghaddam, Andrea Green, Farnoosh Moghaddam, Kalyn Rambacher, Kevin Murnane, & Nader Moniri, College of Pharmacy.

POSTER SESSION 1 (cont.)

21. Preparation and Characterization of Hydrogel Microneedles Using Gantrez® S-97 and Hyaluronic Acid. Maitri Trivedi, Ariana Radmard, & Ajay Banga, College of Pharmacy.
22. Vacuum Compression Molding: A Novel Approach for Fabricating Drug-Loaded Microneedles for Sustained Transdermal Delivery of Palonosetron Hydrochloride. Meheli Ghosh, Sharvari Kshirsagar, Thomas Kipping, & Ajay Banga, College of Pharmacy.
23. Development of a 3-Day Transdermal Delivery System for Lenvatinib Mesylate in Cancer Treatment. Chamundeswara Srinivasa Akash Kalla, Meheli Ghosh, & Ajay Banga, College of Pharmacy.
24. Educational Sessions' Impact on PharmD Students' Perceived Confidence in Research Concepts. Jyles Ariadne Trinidad, Jill Augustine, & Halima Soumare, College of Pharmacy.
25. Serotonin 5-HT1A Receptor Biased Agonists for Fragile X Syndrome. Hamad Alali, Richa Tyagi, Tanishka Saraf, Jessica Armstrong, & Clinton Canal, College of Pharmacy.
26. One Vaccine, Double Defense: Pain-Free Intranasal Delivery for COVID-19 and Flu Protection. Mahek Anil Gulani, Revanth Singh, Sharon Vijayanand, Tanisha Arte, Emmanuel Adediran, Dedeepya Pasupuleti, Amarae Ferguson, Parth Patel, & Martin D'Souza, College of Pharmacy.
27. GLP-1 Receptor Agonists in Patients with a History of Acute Pancreatitis. Matina Manandhar & Lydia Newsom, College of Pharmacy.
28. Indole-3 Acetic Acid as an Antidote for Phenylacetylglutamine-Induced Vascular Dysfunction. A Z M Naser, Nazia Hoque, Emmanuella Ezewudo, & Raquibul Hasan, College of Pharmacy.
29. Alzheimer's Disease and the Organic Drug-Receptor Relationships Involved. Tia Karout & Phillip Bowen, College of Pharmacy.
30. How Does Music Therapy Affect Stress and Coping Among the Parents of Inpatient Pediatric Clients? Sydney Logan, Annie Cowart, Edith Kuria, Jamie Smith, & Kendall Wade, Georgia Baptist College of Nursing.
31. Developing the VSMI: Insights into Virtual Simulation Experiences. Deana Ford & Sara Luke, Tift College of Education.

POSTER SESSION 1 (cont.)

32. **Interactive Experimental Learning Approaches.** Atiya Thompson, Tift College of Education.
33. **Engaging in Deeper Learning: The Role of Reflection and Ungrading Practices in Online Courses.** Tyler Watts, Tift College of Education; & Karen Franklin, Georgia Institute of Technology.
34. **Teacher Perspectives on Professional Learning Communities.** Lori Sandoval, Tift College of Education.
35. **Developing a Measurement Tool for Burnout in School Counselors: A Tailored Approach.** Shashondalyn Samuels, College of Professional Advancement.
36. **Culturally Competent Trauma Work: Investigating Training & Supervision, Implications for Readiness.** Sidney Minor & Ru'yaa Mahmud, College of Professional Advancement.
37. **Assessing the Current Feasibility of AI Diagnosing and Treating Comorbid Mental Disorders.** Leah Guven & Madison Jakubowski, College of Professional Advancement.
38. **A Bacterial Desiccation Evolution Experiment.** Jasmine Moutrie, Allison Allen, Elliot Jackson, Brian Rouse, & Marilyn Wise, College of Professional Advancement.
39. **Narcissistic Grandparents Impact on Adult Grandchildren's Emotional, Psychological, & Social Growth.** Erica Prante, College of Professional Advancement.
40. **The Impact of Childhood Trauma on Parents' Attachment Styles and Its Effects on Single Parents.** Melania Tucker, College of Professional Advancement.
41. **A Social Justice Approach to Urban Development.** Marcuse Williams, College of Professional Advancement.
42. **Battling Suicide Ideation: Finding Hope in Solution Focused Therapy Through the Eyes of Young Adults.** Christy Butler, School of Medicine.

POSTER SESSION 1 (cont.)

43. **A Case Study: Inner Child Work as a Spiritual Foundation Towards Secure Self-Attachment.** Ariel Jaillett, School of Medicine.

44. **Measuring Student Performance in Mathematics by Using Differentiated Small Groups.** LaToya Benjamin, Tift College of Education.

LECTURE SESSION 1

12:30 – 1:00

30 minute talks:

ACC 175 (12:30-1:00)

Testing Reactive Direction Changes in Athletes Post-Anterior Cruciate Ligament Reconstruction with a New Outcome Measure: A Case Report. Leo Swanger & Ann Lucado, College of Health Professions.

ACC 555 (12:30-1:00)

The Challenges of Defining Research Impact: A Case Study and Introduction to the Becker Model. Maria Zulfiqar, Tiffany Townsend, Michelle Johnson, Clement Aubert, & Andrew Balas, College of Health Professions.

ACC 240 (12:30-1:00)

Thematic Analysis of Substance Abuse Mitigation by a Harm Reduction Agency and a College of Pharmacy. Kenric Ware, College of Pharmacy.

15 minute talks:

ACC 243 (12:30-12:45)

No One's Bigger Than the Group: A Just Love Framework to Help Develop Partnership in #BlackLove. Yamileh Barnett, McAfee School of Theology.

ACC 243 (12:45-1:00)

Contentment of Black Therapists Working in Predominantly White Spaces. Dominique Jones, College of Professional Advancement.

15 minute talks:

ACC 245 (12:30-12:45)

Exploring Leaders' Perception and Experience of Their Pursuit of Rest.
Jason Rowland, College of Professional Advancement.

ACC 181 (12:30-12:45)

The Psychology of Giving: Understanding Emotional Investment and Cultural Legacy in HBCU Advancement. Melissa Waller & Cameron Wilson, College of Professional Advancement.

ACC 182 (12:30-12:45)

Reframing Disability: Understanding Disability Culture and Promoting Inclusivity in Counseling. Jordyn Alderman, College of Professional Advancement.

LUNCH
1:00 - 1:30

POSTER SESSION 2

1:30 – 2:20

2nd Floor Atrium

1. **Optimizing Outcomes in Cardiogenic Shock: A Concise Review of Treatment Modalities Following Acute Myocardial Infarction.** Anisha Jayachandran & Jill Mattingly, College of Health Professions.
2. **Fighting Neurocognitive Degeneration with Lifestyle Modifications after Retirement.** Samantha Smith, College of Health Professions.
3. **Advancements in Therapeutic Techniques for Cerebral Palsy.** Kate Winchester, College of Health Professions.
4. **Exploring the Drivers of Poor Mental Health Days Across Georgia's Rural/Urban Counties.** Arkacia Money, Dawood Sultan, Dina Makadiya, Sophia Sherman, Mariah Benning, Jamessa Cumming, Sharnellee Edwards, Muna Said, & Samia Hussein, College of Health Professions.
5. **Preeclampsia Beyond Pregnancy: Improving Outcomes for Women with a History of Preeclampsia.** Emma Carroll & Jill Mattingly, College of Health Professions.
6. **Glucagon-like Peptide-1 Agonists: A Solution to Infertility in Those with PCOS.** Caroline Pridgen, College of Health Professions.
7. **Major Depressive Disorder in Latino Immigrants in Primary Care.** Megan Simon, College of Health Professions.
8. **Managing Chronic Pain in Individuals with hEDS with Dry Needling, STM, and Resistance Training.** Micah Mesecher & Jeffery Ebert, College of Health Professions.
9. **Impact of TB Prevention on Developing Active TB Disease in Patients Living with HIV in Key Nations.** Ryan Wadkins, Lilliana Boyd, Robert Gomez, Tori Ponson, Caroline Hamilton, Cheryl Gaddis, Jennifer de la Cruz, Lourdes Norman-McKay, & Paul Pierre, College of Health Professions.
10. **POCUS in Cardiogenic Shock: A Passing Trend or Pivotal Aid?** Roslyn Talbert, College of Health Professions.
11. **Major Depressive Disorder Treatment in Menopausal Patients.** Josie Francis, College of Health Professions.

POSTER SESSION 2 (cont.)

12. **Interactive Public Health Dashboard with Predictive Analytics for Academic and Research Use.** Tylihahia Williams, College of Professional Advancement.
13. **Evaluation of Thin Film Dosage Formulation to Deliver Dimenhydrinate via Buccal Administration.** Atiya Siddiqui, Dedeepya Pasupuleti, Mohsina Mukti, Dhruvi Patel, Uyen Pham, Sehee Pham, & Mohammad Uddin, College of Pharmacy.
14. **Development of Non-Psychedelic Tryptamines to Treat Auditory Hypersensitivity in Fragile X Syndrome.** Richa Tyagi, Jason Wallach, & Clinton Canal, College of Pharmacy.
15. **Dual Action Ionic Liquid Based Antibiotic-Adjuvant Strategy for Antimicrobial Resistance.** Snehitha Akkineni, Maryam Hassiba, Sarthak Shah, Susu Zughailer, & Mohammad Uddin, College of Pharmacy.
16. **Tiny Pricks, Big Impact: Heterologous Microparticles Vaccine Delivery of SARS-COV-2 in Murine Model.** Tanisha Arte, Emmanuel Adediran, Revanth Singh, Smital Patil, Dedeepya Pasupuleti, Mahek Gulani, & Martin D'Souza, College of Pharmacy.
17. **Chitosan Coated Indole 3 Acetic Acid Nanoparticles- Formulation & Characterization.** Snehitha Akkineni, Dedeepya Pasupuleti, Raquibul Hasan, & Mohammad Uddin, College of Pharmacy.
18. **The New Role of a Gut Microbiota-derived Metabolite in Angiotensin II-induced Model of Hypertension.** Emmanuella Ezewudo, Nguyen Tro, Nimi Simon, Morgan Jones, Sreelakshmi Menon, Farzana Zerine, Mahavir Chougule, & Raquibul Hasan, College of Pharmacy.
19. **Structural Evaluation of an EP2/EP4 Agonist for the Treatment of Asthma.** Christopher Tutterow & J. Phillip Bowen, College of Pharmacy.
20. **Impact of Pharmacy Intern Interventions on Managing Hyperlipidemia.** Precious Edebiri, Erin Pace, & Tarrah White, College of Pharmacy.
21. **Description of Services and Patient Experiences During a Multidisciplinary Medical/Surgical Mission.** Oluwatoyin Fadipe, Fauzia Khan, Pamela Moye, & Teresa Pounds, College of Pharmacy.

POSTER SESSION 2 (cont.)

22. **Targeting Cervical Cancer: 3D-Printed Vaginal Films for Curcumin Delivery.** Mahek Anil Gulani & Dedeepya Pasupuleti, College of Pharmacy.
23. **Management of Parkinson's Disease Using 3D-Printed Transdermal Films of Pramipexole Dihydrochloride.** Anuradha Dey, Thomas Kipping, & Ajay Banga, College of Pharmacy.
24. **Multidisciplinary Perspectives Toward HIV Pre-Exposure Prophylaxis Being Available Over-the-Counter.** Raechelle Raymore & Kenric Ware, College of Pharmacy.
25. **The Impact of Counselor Education Disparities as it Relates to Disability Populations.** Candra Garrett, Wade White, & Kristina Henderson, College of Professional Advancement.
26. **Measuring Competence: Integrating Black Consciousness in Mental Health Practice.** Travis Crafter, Lorice Harris, & Corey Love, College of Professional Advancement.
27. **Cultural Duty Scale: A Psychometric Tool for Cultural Duty in Latine Mental Health Professionals.** Andrea Duran, College of Professional Advancement.
28. **Annual Report Analysis of UnitedHealth Group, Inc.: An Exploration of Explosive Growth Trends.** Kimberly Lancaster, College of Professional Advancement.
29. **Malleus Maleficarum - the Connection and Divide Between Worlds.** Elyssia Sims, College of Professional Advancement.
30. **Cold War Merchants and the Commercialization of Space.** Sandra Pisen, College of Professional Advancement.
31. **Identifying Key Drivers Influencing Short-Term Rental Occupancy Rates: Case of Airbnb.** Sanelisiwe Nkomo, Stetson-Hatcher School of Business.
32. **Determinants of Foreign Direct Investment Flows to Africa: A Dynamic Panel Data Analysis.** Oreoluwa Atobatele, Stetson-Hatcher School of Business.

POSTER SESSION 2 (cont.)

33. **Targeted Marketing: Customer Segmentation & Classification Strategies.** Srikar Nadimpalli, Aakanksha Singh, & Joyce Talluri, Stetson-Hatcher School of Business.
34. **Mortgage Defaults: A Comparison of Prediction Techniques.** Prabhu Shankar, Robert Zell, Myriam Quispe-Agnoli, & Vijaya Subrahmanyam, Stetson-Hatcher School of Business.
35. **DEI and Academic Capitalism: A Systematic Literature Review.** Ariana Roberts, Tift College of Education.
36. **Deaf Studies Curriculum Project Evaluated Using Participatory Action Research.** Rosi Sanchez & Leah Panther, Tift College of Education.
37. **"Build Together, Play Together" DeKalb County Recreation, Parks, and Cultural Affairs: Parks as Outdoor Classrooms Essential to the Community.** Tasha Messer, Tift College of Education.
38. **Small Groups Impact Student Achievement.** Catherine Lawrence, Tift College of Education.
39. **Exploring the Link Between Hydralazine and ANCA Vasculitis: A Case of Diffuse Alveolar Hemorrhage.** Anjali Amalean, Emory School of Medicine.
40. **Integrating AI into Middle School Mathematics: A Case Study of the "AI Ratio Navigator" Project.** Samantha Bradley, Tift College of Education.
41. **Exploring Burnout in Student Affairs: A Systematic Literature Review.** Marcus Wilson, Tift College of Education.

LECTURE SESSION 2
15-minute and 30-minute talks
2:30 – 3:00

30 minute talks:

ACC 175 (2:30-3:00)

Can Reflective Writing Enhance Trainees' Interprofessional Development and Well-being? Michelle Robbins, Mary Beth McCullough, Deborah Wendland, & Amanda Clark, College of Health Professions.

ACC 243 (2:30-3:00)

Exogenous, Endogenous, and Observable Switching Models of Industrial Production in the UK. Astrid Ayala & Szabolcs Blazsek, Stetson-Hatcher School of Business.

ACC 240 (2:30-3:00)

Lead, Follow, or Get in the Way: Graduate Student Leadership Research. John Carroll, Chrystal Bate, Aeeril Johnson, & Garren Walker, College of Professional Advancement.

ACC 191 (2:30-3:00)

Observable or Latent Markov Chains for Score-Driven Regime-Switching Volatility?. Samantha Shadoff, Derek Kong, & Szabolcs Blazsek, Stetson-Hatcher School of Business.

ACC 280 (2:30-3:00)

The Power of UGC: User-Generated Content Shapes Holiday Planning and Consumer Decision. Ni Gusti Ayu Dewi Paramita Arisandi, Atlantic International University.

15-minute talks:

ACC 181 (2:30-2:45)

Patient Blacklisting: Let Care Blocking and Betrayal Be Silent No More. Kimberly Lancaster, College of Professional Advancement.

ACC 181 (2:45-3:00)

Unraveling Constraints: Disrupting Visual Vocabularies of Gender with Fashion Design. Lindsey Calloway, College of Professional Advancement.

LECTURE SESSION 2 (cont.)
2:30 – 3:00

15 minute talks:

ACC 182 (2:30-2:45)

Re-Script-ure – Reframing the Narratives of Congregational Challenges.
Elizabeth Bahar, School of Medicine.

ACC 245 (2:30-2:45)

Fluid Resuscitation in Burns Victims and Avoiding Complications. Daniel
Loyke, College of Health Professions.



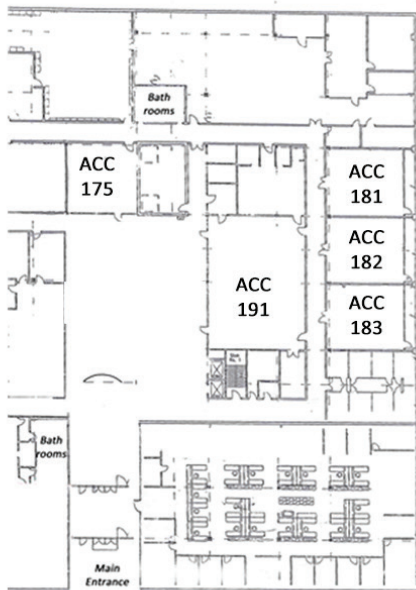
Thank you for joining other students and faculty members from all of the colleges and schools on the Atlanta campus and Regional Academic Centers for the Mercer Atlanta Research Conference. We offer this Conference to showcase and celebrate our students' and our faculty's scholarly work. I want to express my sincere appreciation to Dr. Cameron Miller, for his annual leadership of this Conference.

Additionally, thanks to the other planning committee members including: Jeff Ebert with the College of Health Professions, Nader Monir with the College of Pharmacy, Rob Helfenbein in the Tift College of Education, Arnab Nayak and Wei Xiong with the Stetson-Hatcher School of Business, Tessy George with the Georgia Baptist College of Nursing, and Suneetha Manyam, Stephen Ruegger, Carol Upshaw, Tugba Ertan-Bolelli, Stefanie Sevcik, and Dina Schwam in the College of Professional Advancement.

Priscilla R. Danheiser, Ph.D.
Dean, College of Professional Advancement

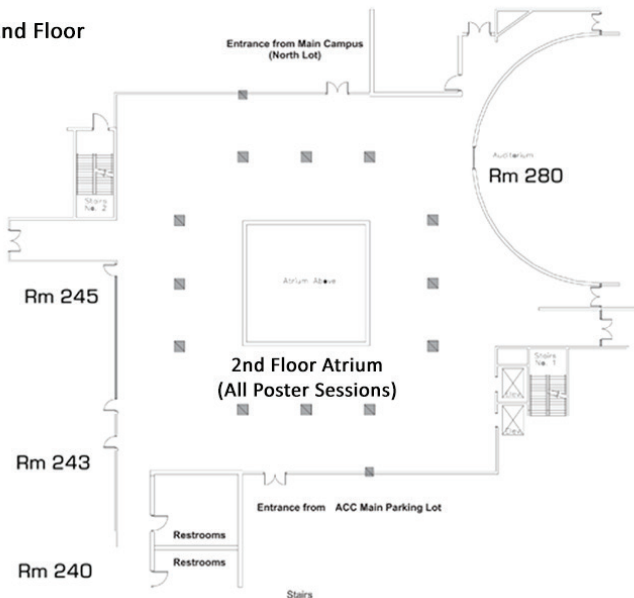
ACC Building: 1st and 2nd Floor Plans with Room Numbers

ACC 1st Floor



Thank You for attending the Faculty and Student Research Conference!

ACC 2nd Floor



Note: Internal stairs do not connect 1st and 2nd floors; only the elevator and external stairs do.