



WOMEN IN SCIENCE AT COLUMBIA

GRADUATE RESEARCH SYMPOSIUM

Empowerment through Self-Advocacy



SYMPOSIUM PROGRAM

THURSDAY, APRIL 18, 2019

LOW LIBRARY ROTUNDA, COLUMBIA UNIVERSITY

WISC Annual Graduate Research Symposium

is a celebration of the guiding principles of *Women in Science at Columbia*, as we bring together interdisciplinary researchers in STEM for a day of learning, communication and connection.

Schedule

9:30-10:00	Breakfast and Poster Setup
10:00-10:15	Welcome from WISC
10:15-10:45	Opening Keynote Speech <i>Dr. Christine Denny</i>
10:45-11:45	Student Research Presentations
11:45-12:45	Lunch and Workshop <i>Improv in Science— James Belarde and Bridgette Rizkalla</i>
12:45-1:45	Student Research Presentations
1:45-2:30	Poster Session
2:30-3:30	Panel Discussion <i>A discussion on self-advocacy with Dr. Adam Galinsky, Dr. Cynthia Rush, and Joan Waters</i>
3:30-4:00	Awards and Closing Remarks
4:00-5:30	Networking Reception

Keynote Speaker

Dr. Christine Denny

*Assistant Professor of Clinical Neurobiology,
Department of Psychiatry*



Christine's prolific research focuses on understanding the molecular mechanisms underlying learning and memory, specially in the context of aging. She was the recipient of the NIH Early Independence Award and is currently an ELabNYC fellow, a biology and health tech accelerator. Christine has also been a vocal advocate of women in science throughout her career, both through her in-lab mentoring of young women, and by speaking up about motherhood in academia.

Panelists

Dr. Adam Galinsky

Vikram S.Pandit Professor of Business, Columbia University



Dr. Galinsky is the Chair of Management Division at the Columbia Business School. He has published more than 200 scientific articles, chapters, and teaching cases in the fields of management and social psychology. His research and teaching focus on leadership, power, negotiations, decision-making, diversity, and ethics.

Dr. Cynthia Rush

Associate Professor of Statistics, Columbia University



Originally from North Carolina, Dr. Rush earned a B.S. in Mathematics from the University of North Carolina at Chapel Hill and a Ph.D. from Yale University. Dr. Rush's research currently focuses on statistical machine learning algorithms, such as message passing.

Joan C. Waters

OMBUDS Officer



Ms. Waters and her staff provide a place for individuals across Columbia University to discuss workplace complaints and other campus problems. Ms. Waters brings to Columbia her extensive professional experience as an attorney in private practice and as the Associate General Counsel at The City University of New York.

Workshop Organizers

James Belarde

MD/PhD Student, Writer, and Comedian



James Belarde is a New York-based comedian and occasional MD/PhD student at Columbia University, with a clinical interest in pediatric neurology. He has trained at the Upright Citizens Brigade Theatre in New York City in both improv and sketch comedy since 2010. James regularly performs stand-up and improv in the city and at festivals around the country. He has also developed an interest in exploring the intersection between humor and medicine. His creative writing has also been included in *The Principles and Practice of Narrative Medicine*.

Bridgette Rizkalla

Writer and Comedian



Bridgette Rizkalla is a Brooklyn-born and based writer and comedian. She has studied improv and sketch at The Upright Citizens Brigade Theater, The Annoyance and NYU, since 2010. Currently she can be found performing with her UCB Harold team Game 7 at UCBT Hell's Kitchen and around the city with her teams FIRE FIRE FIRE and Bear Golf. She is the former host of the long running, weekly show, Kaleidoscope. Her sketch videos have been featured on Huffington Post, Funny or Die, WhoHaha and Elite Daily.

Student Research Presentations

- 10:45-11:00** **Quantifying and modeling the impact of particle-association on the persistence of sewage-derived fecal Indicator bacteria in the Hudson River Estuary**
Elise Myers, *Earth and Environmental Sciences*
- 11:00-11:15** **Emerging from uncertainty using Artificial intelligence: Augmenting human expertise to expedite eye disease detection**
Kaveri Thakoor, *Biological Engineering*
- 11:15-11:30** **Associations between chronic physiologic stress on white matter integrity in children**
Katrina Simon, *Teachers College*
- 11:30-11:45** **Conflicting impacts of nitrogen fixing trees on neighbors in temperate US forests**
Anika Petach, , *Ecology, Evolution and Environmental Biology*
- 12:45 – 1:00** **Microbiome dysbiosis leads to alopecia areata**
Alexa Abdelaziz, *Nutritional and Metabolic Biology*
- 1:00 – 1:15** **Stage-specific requirement for *Mettl3*-dependent m6A mRNA methylation during haematopoietic stem cell differentiation**
Heather Lee, *Columbia Stem Cell Initiative*
- 1:15 – 1:30** **Developing new tools for organic chemistry**
Makeda Tekle-Smith, *Chemistry*
- 1:30 – 1:45** **Reconstructing Ocean Acidification during the Paleocene-Eocene Thermal Maximum**
Laura Haynes, *Earth and Environmental Sciences*

Poster Session

1. Bile Acid Signaling in a mini gut model – **Tiara Ahmad**
2. Associations Among Socioeconomic Status, Bilingualism, and Infant EEG Power During the First Year of Life- **Shaina Brady**
3. Adaptive Arm Training for Children with Hemiparesis as a Result of Acquired Brain Injury (ABI) – **Talita Campos**
4. Temperature controls on glacier size over the last 10,000 years: a case study from northwest iceland– **Lorelei Curtin**
5. An eQTL in Syntaxin17 (STX17) leads to disrupted melanogenesis in alopecia areata- **Stephanie Erjavec**
6. Modeling Heterogeneity: The Link Between Daily Stressors and Somatic Symptoms – **Megan Goldring**
7. Asymmetric d-Lactam Synthesis with a Monomeric Streptavidin Artificial Metalloenzyme – **Isra Hassan**
8. Endothelial cells and hepatic stellate cells create niche for hematopoietic stem cells by secreting stem cell factor in the developing liver – **Yejin Lee**
9. Asymmetric Information and The Gender Wage Gap – **Ashley Litwin**
10. Robustness of Economic Trade – **Valentina Semenova**
11. Culturally Responsive STEM as a problem-based science curricular approach to supporting achievement for students of color- **Yvonne Thevenot**
12. The Effects of Music on the Psychopathology of OCD – **Sarah Ting**
13. The role of chemokine receptors CCR2 and CCR6 in CD4+ T-cell infiltration into the brain following multiple *S. pyogenes* infections – **Charlotte Wayne**

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