

July 23, 2025, 3:00-7:00pm, Lerner Hall Auditorium

CUPP SYMPOSIUM

PROFESSIONAL DEVELOPMENT • ADMISSIONS FAIR • POSTERS PRESENTATION

PROGRAM AT A GLANCE

PROFESSIONAL DEVELOPMENT SESSIONS

Receive guidance from Columbia Admission Officers regarding the application procedures for Undergraduate and Graduate School.

College Admissions (for Highschool Students)

3:00-4:30pm | Room 555 (5th Floor) | With Sarah Campbell, Admissions, Columbia College & Columbia Engineering

Graduate Admissions (for Undergrad Students)

3:30-4:30pm | Room Satow (5th Floor) | With Ji Men Jenny Choy, Graduate Admissions Columbia Engineering, and Amanda Carlson, School of Professional Studies

PROFESSIONAL HEADSHOTS

4:30-7:00pm | North Lobby (1st Floor)

Take a professional headshot to elevate your CV and LinkedIn profile. Join the virtual queue at bit.ly/CUPPPhoto and you'll be notified via text message when it's your turn to show up in the North Lobby.

MINI ADMISSIONS FAIR

5:00-7:00pm | Lerner Hall Auditorium (1st Floor)

Meet with admission officers from Columbia University's Undergraduate and Graduate Schools, as well as from Columbia University Irving Medical Center.

See participating Columbia Schools on p. 2.

POSTERS PRESENTATION

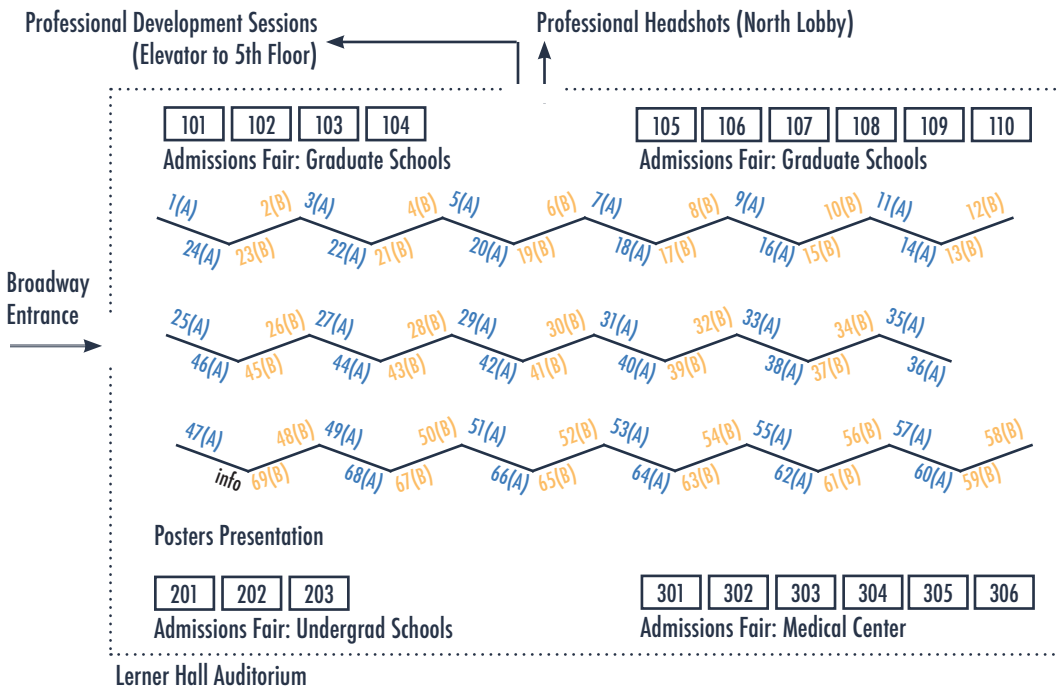
5:00-7:00pm | Lerner Hall Auditorium (1st Floor)

GROUP A: presenting 5:00-6:00pm | Lerner Hall Auditorium

GROUP B: presenting 6:00-7:00pm | Lerner Hall Auditorium

Discover insights from CUPP Scholars on their research at Columbia University. See presenting scholars and Pathways Programs on pp. 2-5.

MAP



MINI ADMISSIONS FAIR

Lerner Hall Auditorium | 5:00-7:00pm

Meet with admission officers from Columbia University's Undergraduate and Graduate Schools, as well as from Columbia University Irving Medical Center.

GRADUATE SCHOOLS

101 · Columbia Business School
102 · Columbia Graduate School of Arts and Sciences
103 · Columbia Law School
104 · Columbia School of International and Public Affairs
105 · Teachers College
106 · Columbia School of Professional Studies
107 · Columbia Climate School
108 · Columbia School of Social Work
109 · Columbia Journalism School
110 · Columbia Engineering

UNDERGRADUATE SCHOOLS

201 · Barnard College
202 · Columbia Undergraduate Admissions
203 · Columbia University School of General Studies

COLUMBIA UNIVERSITY IRVING MEDICAL CENTER

301 · Mailman School of Public Health
302 · Columbia School of Nursing
303 · Columbia Vagelos College of Physicians and Surgeons
304 · Programs in Occupational Therapy at Vagelos College
305 · Programs in Physical Therapy at Vagelos College
306 · Columbia College of Dental Medicine

POSTERS PRESENTATION

Lerner Hall Auditorium | 5:00-7:00pm

Discover Insights from CUPP Scholars on their Research at Columbia University

GROUP A: presenting 5:00-6:00pm

GROUP B: presenting 6:00-7:00pm

PRESENTING SCHOLARS

1(A) · Isabella Adia · SPHSP · 5-6pm

Billed to Deliver: Evaluating Medicaid Reimbursement Models and Doula Care for Equitable Maternal Health Outcomes

2(B) · Danny Alex · SPHSP · 6-7pm

Bridging the Healthcare Gaps: Diabetes Prevention and Management for South Asian Immigrants in NYC

3(A) · Kelis Armstrong · SPHSP · 5-6pm

A Shot at Equity: Understanding MMR Vaccination Gaps in Central Harlem

4(B) · Sarah Baker · SPHSP · 6-7pm

Liberty and Justice for All: The Impact of Medicaid Reform on Marginalized Communities in New York City

5(A) · Jasmine Barnes-Diaz · SPHSP · 5-6pm

Reimagining Support: Improving RISE's Support Groups to Reduce Isolation in Gay and Bisexual BIPOC Men of Brooklyn

6(B) · Brianna Camacho · SPHSP · 6-7pm

Neighboring Differences: Improving Child Developmental Screening in East Harlem and the Upper East Side

7(A) · Saja Elsayed · SPHSP · 5-6pm

The Cost of Instability: Breastfeeding Challenges in Unsupportive Workplaces

8(B) · Elijah Escobedo · SPHSP · 6-7pm

Barriers Within Access: NYC Care Usage and the Impact of Immigration Enforcement Policies on Immigrant Healthcare Utilization

9(A) · Millie Evonlah · SPHSP · 5-6pm

Barriers, Birth, and Belonging: Understanding Maternal Health Challenges in the Bronx

10(B) · Ella Forrester · SPHSP · 6-7pm

Knowledgeable Births: Advancing Informed Consent in Maternal Healthcare

11(A) · Jaden Hayes · SPHSP · 5-6pm

Evaluating Mental Health Policy in Practice: Assessing Care Coordination in the Bronx

11(A) · Jaden Hayes, Jamila Rodriguez & Neel Youts · SPHSP · 6-7pm

A Seat at the Table: An Evaluation of Community and Health Care Resources for Older Adults in the Bronx

12(B) · **Allisa George** · SPHSP · 6-7pm

Living Without Power: Energy Insecurity Prevalence and Its Association with Sleep Quality and Psychological Distress in NYCHA Housing

13(B) · **Michelle Hu** · SPHSP · 6-7pm

An Analysis of Pharmaceutical Patents and Generic Drug Entry

14(A) · **Orrin Jones** · SPHSP · 5-6pm

A Legacy of Lines: Mapping the Roots of HIV/AIDS in Redlined NYC

15(B) · **Rimel Kamran** · SPHSP · 6-7pm

Health Numeracy and Trust in NYC: Implications for Effective COVID-19 Communication

16(A) · **Joanna Kieran-Mendez** · SPHSP · 5-6pm

From Visitor to Vital: A Policy Blueprint for Doula Integration in NYC Hospitals

17(B) · **Kevin Le** · SPHSP · 6-7pm

Analyzing Alcohol Access and Building Safer Alternatives for BIPOC LGBTQIA+ Youth in Brooklyn

18(A) · **Olivia Leung** · SPHSP · 5-6pm

Access, Affordability, and Agency: A Critical Evaluation of Food Environment Interventions in Urban Food Insecure U.S. Communities (2009-2025)

19(B) · **Grace Li** · SPHSP · 6-7pm

Evaluating the Sexual Health Mobile Medical Unit at NewYork-Presbyterian Through Provider, Administrative, and Patient Perspectives During July 2025

20(A) · **Gabrielle Paisley** · SPHSP · 5-6pm

Empowering Minority Mothers: The Influence of Doula Care on Birth Decisions and Prevention of Coercive Interventions

21(B) · **Emilio Parra-Garcia** · SPHSP · 6-7pm

Es Necesario y Esencial: De-Stigmatizing HIV for Self and Community Empowerment with Clients at Voces Latinas

22(A) · **Melanie Polanco** · SPHSP · 5-6pm

Bridging Gaps in Symptom Understanding: Patient Reflections on Clinical Encounters and the Emerging Role of Doulas in Black Perinatal Care in Central Brooklyn (2021–2022)

23(B) · **Sophia Prost** · SPHSP · 6-7pm

Investigating the Impact of Gender Norms on COVID-19 Vaccine Acceptance in New York City

24(A) · **Jamila Rodriguez** · SPHSP · 5-6pm

Roadmaps of Resistance: An Intersectional Examination of 1948 Motorist Green Book Locations and Modern Day State-Level Subjective Cognitive Decline

25(A) · **Danna Rosas** · SPHSP · 5-6pm

Mothers Beyond Norms: A Comparison of Individual's Perceptions of Cisgender and Transgender Women

26(B) · **Georgiana Smith** · SPHSP · 6-7pm

Grocery Access and Food Equity in the South Bronx: The Impact of Redevelopment (2018–2025)

27(A) · **Myla Walker** · SPHSP · 5-6pm

Beyond Prevention: Centering Black and Latinx Couples' Needs to Designing Effective HIV/STI Interventions

28(B) · **Naomi Yonas** · SPHSP · 6-7pm

Prevalence of Stigma and Its Relationship to Neurocognitive Performance in Malaysian Adults Living with HIV

29(A) · **Neel Youts** · SPHSP · 5-6pm

Mapping the Margins: A Moderated Geospatial Analysis of Policy Exclusion and Hispanic Health Disparities

30(B) · **Celine Abbas** · YES in THE HEIGHTS · 6-7pm

Characterizing EGFR-Driven Chemotherapy Sensitivity in Triple-Negative Breast Cancer Models

31(A) · **Raquel Cuautle** · YES in THE HEIGHTS · 5-6pm

Assessing Occupational Exposures in the Informal Sector: Examining Parental Job Exposures in the EpiRbMx Study

32(B) · **Ziad Eltabakh** · YES in THE HEIGHTS · 6-7pm

Investigating the Role of Keratinocyte Phagocytosis and Antigen Presentation in Alopecia Areata

- 33(A) · Avery Flores** · YES in THE HEIGHTS · 5-6pm
Examining Acculturation and Concordance in Mental Health Questionnaires
- 34(B) · Raven Herring** · YES in THE HEIGHTS · 6-7pm
Advancing Equity Through Mobile Cancer Screening: A Systematic Review of Implementation and Outcomes
- 35(A) · Grace Keum** · YES in THE HEIGHTS · 5-6pm
A Navigation Intervention for Caregivers of Adolescent and Young Adult (AYA) Cancer Survivors: Addressing Disparities in Cancer Care Delivery and Survivorship Outcomes
- 36(A) · Rana Khedr** · YES in THE HEIGHTS · 5-6pm
A Pilot Exposomic Analysis Study
- 37(B) · Sayuri Kirikihira** · YES in THE HEIGHTS · 6-7pm
BRCA2 Heterozygosity and Sex-Based Differences in Early Metastatic Spread in a Kras-Driven Mouse Model of Pancreatic Cancer
- 38(A) · Andreina Martinez** · YES in THE HEIGHTS · 5-6pm
Examining the Relationship Between the Area Median Income (AMI) of Families and Size, as Factors Involved in the Social Connection of Women
- 39(B) · Ngozi Obi** · YES in THE HEIGHTS · 6-7pm
Market Analysis and Chemical Composition of Hair Relaxer Products in Kenya: A Descriptive Study of Ingredient Exposure Risk
- 40(A) · Damel Stewart** · YES in THE HEIGHTS · 5-6pm
Optimizing a High-Throughput Transwell Assay to Study Chemokine-Induced Splenocyte Migration and Phenotype Programming
- 41(B) · Yun (Sophia) Lin, Jiawei Lou & Jinghe (Harry) Zhang** · CSUREMM · 6-7pm
From Headlines to Holdings: Deep Learning for Smarter Portfolio Decisions
- 42(A) · Tianyi Shen, Tianqi (Annie) Wang & Xintong (Alice) Ye** · CSUREMM · 5-6pm
When Crypto Sneezes: Forecasting U.S. Macroeconomic Indicators Using Cryptocurrency Volatility
- 43(B) · Aruzhan Abil, Amber Li & Juno Marques Oda** · CSUREMM · 6-7pm
OMNI-GNN: Overarching Multi-Relational Network-Aware Information-Driven Graph Neural Network for Stock Price Prediction
- 44(A) · Ava Blake, Nivika Gandhi & Anura Jakkula** · CSUREMM · 5-6pm
Improving S&P 500 Volatility Forecasting Through Regime-Switching Methods
- 45(B) · Jacob Hahn, Olivia Huang & Yifeng (Athena) Ke** · CSUREMM · 6-7pm
Demographic Predictors of Flu Vaccine Uptake Pre-, During, and Post-COVID-19
- 46(A) · Lucas Azenha, Luiz Gabiatti Backes & Pranav Suresh** · CSUREMM · 5-6pm
Supercolonies, Social Structure, and Temporal Population Dynamics in Communal Nesting Birds
- 47(A) · Caio Hermano Maia de Oliveira, Benjamin Jasper Kra-Caskey & Ke (Ryan) Xu** · CMUSR · 5-6pm
Invariance of Polymer Partition Functions Under the Discrete Periodic Pitman Transform
- 48(B) · Eva Engel, Oleksandr Lazorenko & Ivan Wong** · CMUSR · 6-7pm
Distributions for the Zero-Temperature Discrete Periodic Pitman Transform
- 49(A) · Daniel Alshansky** · IICD SRP · 5-6pm
Cell-Type-Specific Perturbation Screening
- 50(B) · Chandrima Chatterjee** · IICD SRP · 6-7pm
Symbolic Regression to Model Estimated Glomerular Filtration Rate
- 51(A) · Darby Dodge** · IICD SRP · 5-6pm
3D Reconstruction and Analysis of Neuron-Tumor Spatial Organization in a Mouse Glioma Model
- 52(B) · Alan Jiang** · IICD SRP · 6-7pm
Optimal Transport in Spatial Transcriptomics
- 53(A) · Joel Joseph** · IICD SRP · 5-6pm
Mapping Cellular Interactions in Colorectal Cancer through Integrated Single-Cell and High-Resolution Spatial Transcriptomics

54(B) · **Cécile Liu** · IICD SRP · 6-7pm

Approximate Bayesian Computation for Joint Posterior Distribution

55(A) · **Mariah Loehr** · IICD SRP · 5-6pm

Detecting Protein Interactions Predictive of Cell Cycle Outcomes

56(B) · **Marina Milea** · IICD SRP · 6-7pm

Establishing a CRISPR Knockout and Gene Expression Profiling Pipeline in Jurkat T Cells for Application in Cancer Immunotherapy

57(A) · **Kazi Nawar** · IICD SRP · 5-6pm

Simulating Spatial Dynamics of Cell Populations Using a 2D Stochastic Model

58(B) · **Peter Terranova** · IICD SRP · 6-7pm

Inferring Tumorigenesis Dynamics from the Neutral Tail of the Site Frequency Spectrum Using a Machine Learning Approach

59(B) · **Sloan Cauthen** · GSAS SRP · 6-7pm

Escapism Through Art: Black Artistic Expression During the Great Migration

60(A) · **Ashe Ellard** · GSAS SRP · 5-6pm

Transgender vs. Transvestite in the Byzantine Empire: An Analysis of St. Marinos and St. Matrona of Perge

61(B) · **Abdullah Hasimmi** · GSAS SRP · 6-7pm

Nationalism, Masculinity and the National Ideal in Pakistani News Media

62(A) · **Emily Kayser** · GSAS SRP · 5-6pm

Examining the Impact of Excess Early-Life Serotonin Signaling on Mu-Opioid Receptor Expression in the Nucleus Accumbens Core

63(B) · **Audrey Kris** · GSAS SRP · 6-7pm

Bayesian Estimation of Fitness of Noncoding Variants Using Human Population Data and DNA Language Models

64(A) · **La'tresa Middleton** · GSAS SRP · 5-6pm

The Effect of Perception on Black Women's Identity

65(B) · **Nour Rayess** · GSAS SRP · 6-7pm

Silenced Ghosts: A Lebanese History

66(A) · **Mila Cordero** · INTEGRITY Post-Baccalaureate Program · 5-6pm

An Audit of Skin Lightening Products in Northern Manhattan: Pilot Fieldwork of Project Clear

67(B) · **Nathalia F. Mendonça** · INTEGRITY Post-Baccalaureate Program · 6-7pm

Sex-Based Differences in Head and Neck Cancer Risk: Evidence from All of Us Research Program

68(A) · **Katherine Fields, Giorgia Nicolaou & Troy Stephens** · LEAP · 5-6pm

All Generation of Thermodynamic History from Ice Crystal Morphology

69(B) · **Michelle Krakora** · BRIDGE to the PhD · 6-7pm

Creating an Evapotranspiration Database to Understand Decadal Variability of Soil Moisture

PRESENTING COLUMBIA UNIVERSITY PATHWAYS PROGRAMS

SPHSP · Summer Public Health Scholars Program | Posters **1(A)** to **29(A)**

YES in THE HEIGHTS · National Cancer Institute's Youth Enjoy Science Research Education Program: Training in Health Equity, Highlighting Environmental Inequities, & Growing Neighborhood Teachers and Students | Posters **30(B)** to **40(A)**

CSUREMM · Columbia Summer Undergraduate Research Experiences in Mathematical Modeling | Posters **41(B)** to **46(B)**

CMUSR · Columbia Math Undergraduate Summer Research | Poster **47(A)** & **48(B)**

IICD SRP · Irving Institute for Cancer Dynamics Summer Research Program for Undergraduates | Posters **49(A)** to **58(B)**

GSAS SRP · Graduate School of Arts and Sciences Leadership Alliance Summer Research Program | Posters **59(B)** to **65(B)**

INTEGRITY Post-Baccalaureate Program · Integrating Transdisciplinary Research and Training to Eliminate Cancer Health Disparities | Posters **66(A)** & **67(B)**

LEAP NSF-REU · Learning the Earth with Artificial Intelligence and Physics Summer REU Program | Poster **68(A)**

Bridge to the Ph.D. · Bridge to Ph.D. Program in STEM | Poster **69(B)**