

# Matt Franchi

Ann S. Bowers College of Computing and Information Science  
Cornell Tech (NYC)  
Cornell University

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## EDUCATION

Ph.D. Candidate      Computer Science, Cornell University, 2022-  
B.S.                      Computer Science, Clemson University Honors College, 2019-2021

## RESEARCH AREAS

Urban data science, large-scale dashcam data  
Computer vision, urban technology  
Inequity, computational social science

## PUBLICATIONS

### Conference Proceedings

- 2024.b      **Matt Franchi**, Debargha Dey, and Wendy Ju. "Towards Instrumented Fingerprinting of Urban Traffic: A Novel Methodology using Distributed Mobile Point-of-View Cameras". In Proceedings of the 16th International ACM Conference on Automotive User Interfaces (AutomotiveUI '24). Association for Computing Machinery, New York, NY, USA. To appear.
- 2024.a      Dorin Shapira, **Matt Franchi** and Wendy Ju. "Fingerprinting New York City's Scaffolding Problem with Longitudinal Dashcam Data." ArXiv abs/2402.06801 (2024)
- 2023.a      **Matt Franchi**, J.D. Zamfirescu-Pereira, Wendy Ju, and Emma Pierson. 2023. "Detecting disparities in police deployments using dashcam data." In Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (FAccT '23). Association for Computing Machinery, New York, NY, USA, 534–544. <https://doi.org/10.1145/3593013.3594020>
- 2022.b      **Matt Franchi**, Rebecca Kahn, Mashrur Chowdhury, Sakib Khan, Ken Kennedy, Linh Ngo, Amy Apon. 2022. "Webots.HPC: A Parallel Simulation Pipeline for Autonomous Vehicles." In Practice and Experience in Advanced Research Computing 2022: Revolutionary: Computing, Connections, You (PEARC '22). Association for Computing Machinery, New York, NY, USA, Article 31, 1–4. <https://doi.org/10.1145/3491418.3535133>
- 2022.a      **Matt Franchi**, Rebecca Kahn, Linh B Ngo, Sakib Khan, Mashrur Chowdhury, Ken Kennedy, Amy Apon. "A Parallel Autonomous Vehicle Simulation Pipeline on High-Performance Computing." Compendium of the Transportation Research Board 101st Annual Meeting. Washington, DC: Transportation Research Board. <https://trid.trb.org/View/1996315>

### Reports and Other Publications

- 2024.a      Matt Franchi. "Estimating the Perceived Claustrophobia of New York City's Streets."  
<https://mattwfranchi.github.io>

## **PRESS**

- 2024.d "Think N.Y.C.'s Roads Are Crowded? Good Luck on the Sidewalks." The New York Times. <https://www.nytimes.com>
- 2024.c "Most claustrophobic areas in NYC based on sidewalks: Study". Fox 5 NY. <https://fox5ny.com>
- 2024.b "Study looks at 'claustrophobic' city sidewalks". NY1 News. <https://ny1.com>
- 2024.a "New York City is covered in illegal scaffolding". The Economist. <https://economist.com>
- 2023.b "The NYPD doesn't report where it deploys police. So scientists used AI, dashcams to find out.". The Gothamist. <https://gothamist.com>
- 2023.a "Dashcam images reveal where police are deployed". The Cornell Chronicle. <https://news.cornell.edu>
- 2021.a "To Gen Zers Working From Home, the Office Is a Remote Concept". The Wall Street Journal. <https://wsj.com>

## **INVITED TALKS**

- 2024.b "Novel Approaches to Studying the Law Enforcement Investigatory Process". Association for Psychological Science (APS) Annual Convention.
- 2024.a NYC Transportation Data Connect Symposium. NYC Mayor's Office, The Microsoft Garage.

## **GRANTS AND AWARDS**

### **Awards and Honors**

- 2024 Digital Life Initiative (DLI) Doctoral Fellowship
- 2024 Finalist, Cornell Tech Urban Tech Hub Pilot Policy Studio
- 2022 Cornell Mary E. and Anna K. Cunningham Fellowship
- 2022 Cornell Dean's Excellence Fellowship
- 2021 Clemson University DuPont Best Undergraduate Award
- 2021 Clemson University CECAS Summer Research Opportunity Grant
- 2020 Tutor of the Month, Clemson Academic Success Center
- 2019 President's List - All 4 Undergraduate Semesters

## **LEADERSHIP AND SERVICE**

### **Service to the university**

- 2024 Organizer, Cornell Urban Data Science Reading Group
- 2023 Vice President, Cornell Computer Science Graduation Organization (CSGO)
- 2023 CS Representative, Cornell Graduate Student Assembly (GPSA)
- 2022 Pen-pal, Cornell Write-A-Researcher
- 2021 Board Representative, Clemson University Student Government
- 2021 School of Computing Representative, CECAS Student Advisory Board
- 2020 Board Member, Information Technology Student Advisory Board
- 2019 Secretary, Clemson Piano Club

### **Other academic service**

2024 Organizer, EEAMO urban data science working group

### **Peer Review**

2024 Program committee member, ACM Conference on Fairness, Accountability, and Transparency

2023 Program committee member, ACM Conference on Fairness, Accountability, and Transparency

### **MEMBERSHIPS**

Association for Computing Machinery

Queer in AI

Digital Life Initiative

Cornell Tech Urban Tech Hub

Omicron Delta Kappa

Upsilon Pi Epsilon Computing Honors Society

### **ASSISTANTSHIPS**

#### **Cornell University**

2024.fa Teaching Assistant, Urban Systems with Prof. Michael Samuelian

2024.sp Teaching Assistant, Introduction to Computer Vision with Dr. Noah Snaveley

2024.sp Graduate Research Assistant, with Dr. Emma Pierson

2023.fa Teaching Assistant, Applied Machine Learning with Dr. Volodymyr Kuleshov

2023.sp Teaching Assistant, Building Startup Systems with Prof. Danny Perez

2022.su Research Assistant, with Dr. Wendy Ju and Dr. Emma Pierson

#### **Clemson University**

2021.su Research Assistant, with Dr. Amy Apon and BMW IT Research Center (REU)

2020.fa Teaching Assistant, Computer Science II

2019-20 Computer Science Tutor, Academic Success Center

### **PROFESSIONAL EMPLOYMENT**

2024- Research Fellow, Hayden AI, San Francisco, California

2023 Chief Engineer, Generative AI & Fashion, ARI (stealth startup), New York City, New York

2023 Fashion Model, HOMME Management, New York City, New York

2022 Computer Science, Math, Physics Tutor, Capabilities, Charleston, South Carolina

2021-22 Software Engineer, High Side Technology, Charleston, South Carolina

2020-21 Computer Scientist Intern, High Side Technology, Charleston, South Carolina

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