

Matt Franchi

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EDUCATION

Ph.D. Candidate Computer Science, Cornell University, 2022-
M.S. Computer Science, Cornell University, 2022-2024
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. <https://dl.acm.org/doi/10.1145/3640792.3675740>.
Best Paper Honorable Mention
- 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)
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- 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>
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- 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.
<https://urban.tech.cornell.edu/hownymoves/>.

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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