

Chenyi Wang

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Education

University of Arizona

Doctor of Philosophy in Electrical and Computer Engineering

Advisor: Dr. Ming Li, IEEE Fellow

GPA: 4.00/4.00

Jan. 2023 – Present

Columbia University in the City of New York

Master of Arts in Statistics

GPA: 4.00/4.00

Sep. 2021 – Dec. 2022

University of Minnesota, Twin Cities

Bachelor of Science in Statistics, Bachelor of Arts in Mathematics

Minor in Computer Science

GPA: 3.93/4.00, High Distinction, Phi Beta Kappa

Aug. 2018 – May 2021

Research Experience

Graduate Research Assistant, University of Arizona, Tucson, AZ

- Tackled attack/defense problems in Multi-Object Tracking algorithms.

- Developed novel attacks/defenses in cooperative perception systems for connected and autonomous vehicles.

Jan. 2023 – Present

Classification Algorithms for IoT Lab, University of Chicago

- Collaborated with professors from Columbia University and University of Chicago.

- Developed efficient algorithms for video sample status estimation in IoT products using OpenCV and advanced ML models.

Nov. 2021 – Aug. 2022

Publications

C. Wang, Y. Man, R. Muller, M. Li, Z.B. Celik, R. Gerdes, J. Petit,

‘Physical ID-Transfer Attacks against Multi-Object Tracking via Adversarial Trajectory’,

The 2024 Annual Computer Security Applications Conference (ACSAC 2024)

Project Experience

Data-driven Analysis, Gov. Tim Walz’s 2022 Reelection Campaign

- Developed ML models to assess voter characteristics and support strategies.

- Improved prediction accuracy through novel model mixture methods. - Ranked No.1 undergraduate capstone project.

Jan. 2021 – May 2021

Automated Token Farming Program, Asphalt 9

- Built an automated system using OpenCV and Python on Raspberry Pi to farm game tokens.

May 2020 – Jul. 2020

Teaching Experience

Grader, STAT 1101W - Introduction to Statistics, Columbia University

Sep. 2022 – Dec. 2022

Graduate Teaching Assistant, STAT GR5203 - Probability, Columbia University

Jan. 2022 – May 2022

Other Experience

Executive Board Member, Columbia Statistics Club

Nov. 2021 – Dec. 2022

Data Analyst Intern, Innovation Boosters US Inc.

Oct. 2021 – Jan. 2022

Honors and Qualifications

Herbold Fellowship

Jan. 2023

Columbia Department of Statistics Fellowship

Aug. 2022

Columbia ASA JSM Award

Aug. 2022

Skills

Computer Skills: Python, TensorFlow, PyTorch, R, SQL, Java, C++, OCaml, Git, Markdown

Language Skills: Mandarin (Native), English (Professional)