

Jing Jia

✉ jingjialeonia@gmail.com ☎ 201-682-0996 🌐 <https://jjia131.github.io/> 🔗 linkedin: Jing Jia 🌐 jjia131

Education

- Ph.D. Computer Science, Rutgers University** 2023 – 2028 (Expected)
- Advisors: Prof. Guanyang Wang and Prof. Peng Zhang
 - GPA: 4.00/4.00
- B.S. Electrical and Computer Engineering, Rutgers University** 2019 – 2023
- Summa Cum Laude, Dean's List (all semesters), GPA: 3.96/4.00

Research Interests

Diffusion models and generative AI; tabular foundation models; causal inference

Professional Experience

- Research Scientist Intern**, Adobe Research San Jose, CA
Summer 2026
- Researched and developed an automated feature engineering and aggregation pipeline that transforms relational tables into representations for single-table foundation models (e.g., TabPFN, TabICL); submitted the work as an Invention Disclosure Form (IDF) for Adobe Experience Platform and Customer AI.
- Co-Founder & CTO**, WLKATA Robotics, Wristline Inc. Hackensack, NJ
Jul 2021 – Present
- Co-founded the company and led its technology and product strategy, developing robotics and AI curricula for academic and industry audiences.
- Instructor**, Robotics Summer Camp, Mayflower ASTEM Academy, CCNY New York, NY
Summers 2024 & 2025
- Designed and taught a multi-week program in AI, computer vision, and robotics, and mentored teams for the IEEE Micromouse competition.

Publications

* = alphabetical ordering, † = equal contribution, ◇ = corresponding author

Peer-reviewed Publications:

Weak Diffusion Priors Can Still Achieve Strong Inverse-Problem Performance

Jing Jia^{†,◇}, Wei Yuan[†], Sifan Liu, Liyue Shen, Guanyang Wang[◇]

ICML 2026 *Spotlight (Top 2.2%)*

Antithetic Noise in Diffusion Models

Jing Jia, Sifan Liu, Bowen Song, Wei Yuan, Liyue Shen, Guanyang Wang

ICLR 2026

Balanced and Robust Multi-Treatment Experimental Designs via Randomized Differencing

Qing Chen, **Jing Jia**^{*}, Peng Zhang

AISTATS 2026

CCS: Controllable and Constrained Sampling with Diffusion Models via Initial Noise Perturbation

Bowen Song, Zecheng Zhang, Zhaoxu Luo, Jason Hu, Wei Yuan, **Jing Jia**, Zhengxu Tang, Guanyang Wang, Liyue Shen

NeurIPS 2025

EAZY: Eliminating Hallucinations in LVLMs by Zeroing out Hallucinatory Image Tokens

Liwei Che, Tony Qingze Liu, **Jing Jia**, Weiyei Qin, Ruixiang Tang, Vladimir Pavlovic

ICCV 2025

VCRS: A Novel Approach to Virtual Reality Cycling for Balance Rehabilitation

Jing Jia, Julianne D’Avirro Humphrey, Parth Darji, Binsheng Zhang, Yao Liu
ACM ImmerCom 2023

Preprints

Couple to Control: Joint Initial Noise Design in Diffusion Models

Jing Jia[◊], Liyue Shen, Guanyang Wang[◊]

arXiv: 2605.11311

Short abstract accepted by NeurIPS 2026 Women in Machine Learning (WiML) workshop

Unlocking Few-Step Diffusion for Faithful Previews

Jing Jia[◊], Sifan Liu, Guanyang Wang[◊]

arXiv: 2609.34406

Honors and Awards

ICML spotlight poster, top 2.2% among 23,918 submissions	2026
Hsiao Family Endowed Scholarship in Engineering	2022–23
Elmer C. Easton Scholarship in Engineering	2022–23
Ann Pihlman Neupauer Memorial Scholarship	2020–21

Selected Talks and Presentations

Signal and Information Processing (SIP) Seminar, Rutgers, NJ, USA	2026
NYSTEC: From Automation to Intelligent Robots, NY, USA	2026
International Technology and Engineering Educators Association Annual Conference, VA, USA	2026
The Fast and Curious II: MCMC in Action, University of Toronto, Toronto, Canada	2025
ImmerCom ’23, co-located with MobiCom, Madrid, Spain	2023

Course Projects

Fine-Tuning LLMs for Structured Robot Task Planning	Spring 2026
Developed a language-guided robotic manipulation system integrating YOLO perception with a fine-tuned Qwen3 planner.	
Enhancing Vision-Language Models for Ergonomic Problems Captioning in Construction	Spring 2024
Integrated Grounding DINO, SGG, and BLIP into a web application that analyzes workplace safety images and provides instant ergonomic feedback.	

Skills

Programming: Python, PyTorch, Julia, Java, C++, C, SQL, Arduino

Expertise: Diffusion models, flow matching, tabular foundation models, multimodal LLMs, reinforcement learning, robotics, and computer vision.

Professional Services

Reviewer

NeurIPS (2026), ICML SPIGM workshop (2026)

Teaching Experience

Teaching Assistant, Computer Science Department

Rutgers University

- CS352 – Internet Technology (Spring 2025)
- CS213 – Software Methodology (Fall 2024)
- CS206 – Discrete Mathematics II (Spring 2024)
- CS211 – Computer Architecture (Fall 2023)