

BOWEN TAN

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EDUCATION

New York University

New York, NY

B.A. in Computer Science and Mathematics; **GPA: 3.86/4.00**

Sep 2023 – Expected May 2027

Relevant Coursework: Machine Learning, Operating Systems, Data Structures & Algorithms, Computer System Organization, Linear Algebra, Probability, Abstract Algebra, Real Analysis

PUBLICATION

Contact-Anchored Policies: Contact Conditioning Creates Strong Robot Utility Models [\[arXiv\]](#)

Zichen Jeff Cui, Omar Rayyan, Haritheja Etukuru, **Bowen Tan**, Zavier Andrianarivo, Zicheng Teng, Yihang Zhou, Krish Mehta, Nicholas Wojno, Kevin Yuanbo Wu, Manan H Anjaria, Ziyuan Wu, Manrong Mao, Guangxun Zhang, Binit Shah, Yejin Kim, Soumith Chintala, Lerrel Pinto, Nur Muhammad Mahi Shafiullah

EXPERIENCE

NYU GRAIL Lab

New York, NY

Research Assistant

May 2025 – Present

- Conducting research on robot manipulation learning, investigating behavior cloning for manipulation tasks.

Westlake University, WINDY Lab

Hangzhou, China

Research Assistant

Dec 2024 – Jan 2025

- Designed and implemented a neural network-based model for monocular distance estimation; conducted ablation studies on architectures and loss functions to optimize prediction accuracy.

ArcSoft, Inc.

Hangzhou, China

Computer Vision Algorithm Engineer Intern

Jul 2024 – Sep 2024

- Built an end-to-end automatic labeling pipeline for large-scale image datasets, reducing manual annotation effort and accelerating model iteration cycles.
- Developed an H.264 bitstream parser for frame-level metadata extraction; trained and evaluated CNN models for visual recognition tasks.

PROJECTS

VibeMatch: Aesthetic-Driven Media Retrieval | Python, PyTorch, Streamlit

2025

- Built a cross-modal retrieval app using dual encoders with contrastive learning, aligning visual and auditory features for text-to-media and media-to-media search.

SKILLS

Programming: Python, C, C++, JavaScript, MATLAB, Assembly

Frameworks & Tools: PyTorch, CUDA, ROS, Docker, Git, SQL, Jupyter, \LaTeX

Areas: Robot Learning, Computer Vision, Deep Learning, Behavior Cloning, Contrastive Learning

Languages: English, Chinese (native)

AWARDS

National Olympiad in Informatics in Provinces (NOIP): Second Prize (2020)

Invent Future Invention Convention: Excellent Inventor Award (2020)