

# Brandon (Yifan) Yang

brandonyifanyang.com

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## EDUCATION

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- **University of Virginia** Charlottesville, VA  
*Bachelor of Science in Computer Science; GPA: 3.91* Aug. 2021 – May. 2025

## RESEARCH EXPERIENCE

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- **Learning and Interactive Robotics, University of Virginia** Charlottesville, VA  
*Advisor: Prof. Yen-Ling Kuo* Aug 2024 - Present
  - **Ongoing Senior Capstone:** Vision-Language-Action model for robotic manipulation.
- **University of Maryland** College Park, MD  
*Advisor: Prof. Jia-Bin Huang* May 2024 - Present
  - Injecting semantically aware and consistent embeddings into 3D Gaussian Splatting scenes.
- **Collaborative Robotics Lab, University of Virginia** Charlottesville, VA  
*Advisor: Prof. Tariq Iqbal* May 2022 - May 2024
  - **Grounded Location for Object Manipulation (GLOMA)**
    - \* Zero-shot image-editing model grounded by language instruction for object relocation and manipulation tasks.
    - \* Developed bounding box-guided object manipulation using Llama 2 backbone for goal location prediction, and pre-trained diffusion model for image generation.
  - **Centralized multi-agent RL for Collaborative Robots**
    - \* Developed long-horizon offline centralized MARL for bolt screwing tasks.
    - \* Deployed and tested custom simulated environments in IsaacGym for training and evaluation.

## EXPERIENCE

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- **Teaching Assistant**  
*Machine Learning w/ Prof. Rich Nguyen* Aug 2024 - Present
- **Teaching Assistant**  
*Theory of Computation w/ Prof. Mark Floryan* Jan 2024 - May 2024
- **Lab Lead Teaching Assistant**  
*Computer Systems Organizaiton w/ Prof. John Hott* Jan 2023 - May 2023
  - Led weekly lab sections with short lectures and hands-on activities for 70+ students.

## PROJECTS

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- **QuantSoftware Toolkit:** Open source python library for financial data analysis and machine learning for finance.
- **Github Visualization:** Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Recommendation System:** Music and Movie recommender systems using collaborative filtering on public datasets.

## PROGRAMMING SKILLS

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- **Languages:** Scala, Python, Javascript, C++, SQL, Java
- **Technologies:** AWS, Play, React, Kafka, GCE