



Bob (Jue) Guo

Lead, AI Curriculum · University at Buffalo School of Management

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PROFESSIONAL SUMMARY

Jue Guo leads AI curriculum at the University at Buffalo School of Management, building the AI program for the Center for Intelligent Finance and Fintech (CIFF), and is a Ph.D. candidate in Computer Science at the University at Buffalo. As adjunct faculty he has taught five graduate courses to more than 300 students and mentored 20+ thesis students, and he founded AI Office Hours, an open AI learning community of 2,800+ members. His research focuses on graph representation learning, AI in finance, and large language models. Skilled in Python, PyTorch, and applied machine learning, with a record of translating complex methods into practical, real-world instruction.

EDUCATION

University at Buffalo

Ph.D. in Computer Science

Buffalo, NY

2022 – Present

University at Buffalo

M.S. Robotics and Artificial Intelligence

Buffalo, NY

2020 – 2022

Wake Forest University

B.S. Computer Science

Winston-Salem, NC

2015 – 2019

EXPERIENCE

Lead, AI Curriculum

Sep 2026 – Present

University at Buffalo School of Management, Center for Intelligent Finance and Fintech

Buffalo, NY

- Build the AI curriculum for CIFF, reporting to the chair of the Finance department and the dean of the School of Management.
- Develop graduate and executive modules that apply modern machine learning to financial decision problems (valuation, trading systems, and model governance) with hands-on Python labs.
- Design and deliver programs for academic and executive audiences, including financial institutions, nonprofits, and international partner programs.

Adjunct Faculty

July 2023 – Present

University at Buffalo

Buffalo, NY

- Taught 5 graduate courses (Deep Learning, Machine Learning, Pattern Recognition, Algorithm Analysis, and Artificial Intelligence) to over 300 students, receiving excellent student feedback.
- Designed hands-on curricula incorporating PyTorch and TensorFlow, emphasizing practical skills for industry readiness.
- Mentored 20+ graduate students on thesis projects, guiding practical ML model development.

Founder & Host

2026 – Present

AI Office Hours

Online

- Founded an open AI learning community that grew to 2,800+ members in its first three months, averaging about 100 attendees per live session.
- Run live sessions, workshop series, and written deep dives on LLMs and deep learning across Meetup, Discord, YouTube, LinkedIn, and Substack.

Lead STEM Instructor

Nov 2025 – Present

WhyMaker (in partnership with New York Power Authority)

Buffalo, NY

- Educated K-12 audiences bridging foundational concepts with real-world industry use cases.
- Delivered AI and computer vision instruction in the NYPA Drone Certification Program, covering autonomous flight and applied vision techniques.

Graduate Teaching Assistant

Aug 2022 – May 2023

University at Buffalo

Buffalo, NY

- Delivered weekly recitations and individualized mentoring for 200+ students in Machine Learning and Deep Learning.
- Developed interactive case studies and coding labs, significantly improving student comprehension and engagement.

Machine Learning Engineer

June 2019 – Aug 2020

Zhejiang University, Mathematical Medicine Society

Hangzhou, China

- Built and implemented a deep learning-based bone age detection system using CNNs for orthopedic diagnostics.
- Collaborated on medical imaging projects, using advanced preprocessing, augmentation, and PyTorch-based CNN feature extraction to enhance diagnostic accuracy.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript
- **Machine Learning:** PyTorch, TensorFlow, Scikit-learn, CNNs, Transformers, LLMs, Graph Neural Networks
- **Data Analysis:** NumPy, pandas, Matplotlib, Seaborn, OpenCV
- **DevOps and Tools:** Git, Docker, Linux, AWS, Jupyter, Google Colab, Weights & Biases
- **Professional Skills:** Curriculum Design, Executive Education, Technical Writing, Academic Research, STEM Teaching

COURSES TAUGHT

University at Buffalo

Summer 2023 – Current

Adjunct Faculty

Buffalo, NY

- Introduction to Pattern Recognition (CSE 455/555), Summer 2026, Summer 2025 (20 students), Summer 2024 (26 students), Summer 2023 (58 students)
- Algorithm Analysis and Design (CSE 431/531), Summer 2025, 40 students
- Fundamentals of Artificial Intelligence (EAS 510), Spring 2025, 38 students
- Deep Learning (CSE 676), Fall 2024 (54 students), Fall 2023 (42 students)
- Introduction to Machine Learning (CSE 474/574), Spring 2024, 221 students