


Blake Bullwinkel

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EDUCATION

Harvard University M.S. in Data Science. GPA 3.95/4	Cambridge, MA May 2022
Williams College B.A. in Mathematics, Chinese. GPA 3.83/4 (<i>cum laude</i>)	Williamstown, MA June 2020
University of Oxford Attended as part of the selective, year-long Williams-Exeter Program at Oxford (WEPO).	Oxford, UK June 2019

PROFESSIONAL EXPERIENCE

Microsoft <i>AI Security Researcher II, AI Red Team</i> • Leading research into a variety of GenAI safety and security topics (jailbreaks, prompt injection attacks, model backdoors, etc.) to inform Microsoft’s understanding of the AI risk landscape. • Conducting red team operations to identify vulnerabilities in high-profile Microsoft and OpenAI products (GPT-5, Deep Research, Phi series, etc.) and inform safety mitigations. • Contributing to PyRIT  , an open-source Python framework for identifying risks in GenAI systems. <i>Data & Applied Scientist</i> • Introduced a method to classify performance bugs and customer incidents using text embeddings. • Built a pipeline to detect and prioritize kernel-mode memory leaks across the Azure fleet.	Redmond, WA Jan 2024–Present Aug 2022–Dec 2023
Harvard University <i>Teaching Fellow</i> • Assisted professors in teaching of CS 109b: Advanced Topics in Data Science, a course focused on non-linear statistical methods and deep learning models, including CNNs, RNNs, LSTMs, GANs, and transformers.	Cambridge, MA Feb–May 2022

RECENT RESEARCH

B Bullwinkel et al. A Representation Engineering Perspective on the Effectiveness of Multi-Turn Jailbreaks. <i>ICML Workshop on Data in Generative Models, 2025.</i>
B Bullwinkel et al. Steering Language Model Refusal with Sparse Autoencoders. <i>ICML Workshop on Actionable Interpretability, 2025.</i>
B Bullwinkel et al. A Systemization of Security Vulnerabilities in Computer Use Agents. <i>ICML Workshop on Computer Use Agents, 2025.</i>
B Bullwinkel et al. Lessons From Red Teaming 100 Generative AI Products. <i>Microsoft BlueHat 2024. NeurIPS Workshop on Red Teaming GenAI, 2024.</i>
B Bullwinkel et al. Phi-3 Safety Post-Training: Aligning Language Models with a “Break-Fix” Cycle. <i>Arxiv 2024.</i>
B Bullwinkel et al. PyRIT: A Framework for Security Risk Identification and Red Teaming in Generative AI Systems. <i>CAMLIS 2024.</i>

HONORS AND AWARDS

CES Infinite Mindset Partnership Award for leading Phi-3 language model red teaming (Microsoft)	2024
Quality Stars Award for building a novel memory leak detection pipeline for Azure (Microsoft)	2023
Certificate of Distinction in Teaching based on student ratings (Harvard University)	2022
IACS Student Scholarship to support data science thesis research (Harvard University)	2021
Goldberg Prize in Mathematics for the best senior mathematics colloquium (Williams College)	2020
Linen Prize in Chinese for achieving distinction in Chinese (Williams College)	2020

SKILLS

Programming	Python, R, HTML/CSS, JavaScript, SQL, KQL
Libraries	NumPy, Pandas, SciPy, Scikit-Learn, PyRIT, HuggingFace, PyTorch, TensorFlow
Platforms	Azure, AWS, Docker, Linux, Windows
Language	Working proficiency in written and spoken Chinese (Mandarin)