

QUAN (BEN) SHI

(+1) 304-212-2733
benshi34@gmail.com
<https://benshi34.github.io>

EDUCATION	Department of Computer Science, Princeton University <i>B.S.E. in Computer Science, Certificate in Statistics + Machine Learning</i> • Advisors: Prof. Karthik Narasimhan, Dr. Shunyu Yao • GPA: 3.95/4.00, Magna Cum Laude, Phi Beta Kappa (Top 10%) • Thesis: Towards Memory Augmented Language Agents	Princeton, NJ 2020 - 2024
EMPLOYMENT	Research Assistant (Current) Princeton, NJ • Code agent planning + reasoning (USACO, SWE-Agent) • Foundations for Reasoning-Based Retrieval (BRIGHT, Redefining Relevance) • Human-Agent collaboration on hard reasoning tasks (CodeHT) Software Engineer, Meta Menlo Park, CA • Core Ad Experiences Team • Built and monitored adjustments to ad creative optimization pipelines	2023.01 - Current 2022.06 - 2022.08
PUBLICATIONS	<ol style="list-style-type: none">Quan Shi*, Michael Tang*, Karthik Narasimhan, Shunyu Yao. "Can Language Models Solve Olympiad Programming?" <i>Proceedings of COLM</i>, 2024.Hongjin Su, Howard Yen, Mengzhou Xia, Weijia Shi, Niklas Muennighoff, Han-yu Wang, Haisu Liu, Quan Shi, Zachary S. Siegel, Michael Tang, Ruoxi Sun, Jinsung Yoon, Sercan O. Arik, Danqi Chen, and Tao Yu. BRIGHT: A Realistic and Challenging Benchmark for Reasoning-Intense Retrieval. <i>In Review, ICLR 2025</i>.Quan Shi, Howard Yen, Mengzhou Xia, Shunyu Yao, Danqi Chen*, Karthik Narasimhan*. "To Retrieve or not to Retrieve: Redefining Reasoning-Based Retrieval Utility" <i>In Review, December ARR 2024</i>	
AWARDS AND HONORS	• Sigma Xi Book Award , Outstanding Undergraduate Thesis • Sigma Xi Inductee , Outstanding Undergraduate Research Record • National Merit Scholarship Recipient , NMSC • Biology Olympiad National Top 30 , CEE	2024.06 2024.06 2020.08 2018.08
RELEVANT PAST PROJECTS	Memory-Augmented Personal Assistant <i>COS597A Vector Databases Final Project, Princeton Research Day</i> • Knowledge Distillation for Multiplexed Models <i>NLP Course Final Project</i>	2024.9 - 2024.12 2023.1 - 2023.5
TEACHING ASSISTANT	COS484: Natural Language Processing , Karthik Narasimhan COS240: Reasoning in Computation , Ran Raz COS445: Incentives in Computer Science , Matt Weinberg COS216: Data Structures and Algorithms , Kevin Wayne COS226: Introduction to Programming Systems , Szymon Rusinkiewicz	Spring 2024 Fall 2024 Spring 2023 Fall 2023 Fall 2023
EXTRA- CURRICULARS	Academic: AI@Princeton, HackPrinceton, Math Club (PUMAC) Other: Princeton Rock Ensemble, Coffee Club Performer, PorchFest Performer, Tower Club, VTone songwriter/arranger, Chinese Language Association, Composers' Collective	