Michelle Yuan

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Summary AI scientist who has industry experience in successfully launching generative AI services and also has first-author publications in top machine learning conferences

Background

University of Maryland *College Park, MD*
Ph.D. in Computer Science *2017-2022*

Cornell University *Ithaca, NY*
B.A. in Mathematics *2013-2017*
Minor in Computer Science
Honors: *cum laude*

Citizenship *United States*

Industry

Amazon AWS *New York, NY*
Applied Scientist *2022-Present*

- Led benchmarking efforts to help launch of multi-agent collaboration on AWS Bedrock Agents, which has shown up to 40% increase in goal success rates over single-agent systems and more than 30% improvement over competitor services
- Led feature launch of parallel function calling on AWS Bedrock Agents to improve latency, a common issue for customer adoption of Bedrock Agents, by up to 21%
- A contributor in the development of Titan, Amazon's first large language model

Awards

Dean's Fellowship, University of Maryland *2017-2019*
Dean's List, Cornell University *2013-2017*

Selected Publications

1. **Michelle Yuan**, Patrick Xia, Chandler May, Benjamin Van Durme, and Jordan Boyd-Graber. **Adapting Coreference Resolution Models through Active Learning**. *Association for Computational Linguistics*, 2022.
2. **Michelle Yuan**, Hsuan-Tien Lin, and Jordan Boyd-Graber. **Cold-start Active Learning through Self-Supervised Language Modeling**. *Empirical Methods for Natural Language Processing*, 2020.
3. **Michelle Yuan**, Benjamin Van Durme, and Jordan Boyd-Graber. **Multilingual Anchoring: Interactive Topic Modeling and Alignment Across Languages**. *Neural Information Processing Systems*, 2018.

Skills

Software Python, MATLAB, Java, C/C++, OCaml, Julia, HTML/CSS/JS, LaTeX, git, bash
Languages English (native), Chinese (fluent), Spanish (conversational)

Activities

Camel Mountain Climbing Association *Taiwan*
Club Member *2006-Present*
Wushu Club *Cornell University*
President *2016-2017*

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