

# John Murzaku

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## WORK EXPERIENCE

<b>Applied Scientist</b>   Adobe (Agent Orchestrator Team) <i>San Jose, CA</i>	<b>May 2025 — Present</b>
<ul style="list-style-type: none"><li>• Leading planning agent development for multi-agent orchestration system.</li><li>• Designed and shipped plan retrieval, disambiguation, and customization features.</li><li>• Built and deployed automated evaluation framework for Agent Orchestrator.</li></ul>	
<b>Applied Scientist Intern</b>   Adobe <i>San Jose, CA   Mentors: <a href="#">Zifan Liu</a>, <a href="#">Yunyao Li</a></i>	<b>May — Nov. 2024</b>
<ul style="list-style-type: none"><li>• Built enhanced ambiguity detection and clarification system for Adobe's AI Assistant.</li><li>• Reduced missed essential clarification questions by 9% in production.</li><li>• First author of 2 papers (AAAI, AAAI) and patent application.</li><li>• Collaborated with UI/UX to integrate interactive disambiguation interface.</li></ul>	
<b>NLP Research Intern</b>   Raytheon <i>Cambridge, MA</i>	<b>May — Aug. 2023</b>
<ul style="list-style-type: none"><li>• Improved authorship attribution system for IARPA HIATUS program.</li><li>• Integrated topic-model features, increasing production recall@8 by 3%.</li><li>• Experimented with synthetic data generation using LLaMA-2.</li></ul>	

## EDUCATION

<b>Stony Brook University</b> Ph.D. in Computer Science; GPA: 3.89/4.0; Advisor: <a href="#">Owen Rambow</a> .	Jan 2021 - May 2025
<b>Seton Hall University</b> B.S. in Mathematics; GPA: 3.83/4.0.	Aug 2017 - Dec 2020

## PUBLICATIONS (SELECTED)

1. **John Murzaku**, Owen Rambow. "OmniVox: Zero-Shot Emotion Recognition with Omni-LLMs". Submitting to ARR Oct 2025. [PDF](#)
2. **John Murzaku**, Owen Rambow. "Zero-Shot Belief: A Hard Problem for LLMs". CODI 2025 (co-located at EMNLP 2025). [PDF](#)
3. **John Murzaku**, Zifan Liu, Vaishnavi Muppala, Mehrab Tanjim, Xiang Chen, Yunyao Li. "ECLAIR: Enhanced Clarification for Interactive Responses in an Enterprise AI Assistant". AAAI 2025 Demo Track.
4. **John Murzaku**, Zifan Liu, Mehrab Tanjim, Vaishnavi Muppala, Xiang Chen, Yunyao Li. "ECLAIR: Enhanced Clarification for Interactive Responses". IAAI 2025. 15.7% acceptance rate. [PDF](#)
5. Adil Soubki\*, **John Murzaku**\*, Peter Zeng, Owen Rambow. (\* equal contrib) "Synthetic Audio Helps for Cognitive State Tasks". Findings of NAACL 2025. [PDF](#)
6. Amie Paige\*, Adil Soubki\*, **John Murzaku**\*, Owen Rambow, Susan Brennan. (\* equal contrib) "Training LLMs to Recognize Hedges in Spontaneous Narratives". SIGDIAL 2024. [PDF](#)
7. Adil Soubki, **John Murzaku**, Arash Yousefi Jordehi, Peter Zeng, Magdalena Markowska, Seyed A. Mirroshandel, Owen Rambow. "Views Are My Own, but Also Yours: Benchmarking Theory of Mind Using Common Ground". Findings of ACL 2024. [PDF](#)
8. **John Murzaku**\*, Adil Soubki\*, Owen Rambow. (\* equal contrib) "Multimodal Belief Prediction". Interspeech 2024. [PDF](#)
9. **John Murzaku**, Owen Rambow. "BeLeaf: Belief Prediction as Tree Generation". NAACL 2024 Demo. [PDF](#)
10. **John Murzaku**, Tyler Osborne, Amitai Aviram, Owen Rambow. "Towards Generative Event Factuality Prediction". Findings of ACL 2023. [PDF](#)
11. **John Murzaku**, Peter Zeng, Magdalena Markowska, Owen Rambow. "Re-Examining Factbank: Predicting the Author's Presentation of Factuality". COLING 2022. [PDF](#)

## SKILLS

**Programming:** Python; Bash  
**ML/LLM:** PyTorch; Transformers; agents-sdk; tool/function use; multi-agent orchestration; evaluation harnesses  
**NLP Focus:** event detection; belief modeling; theory of mind; hedging; attribution  
**Tools:** Git; Linux; Docker; Databricks