

Alexander Martin

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EDUCATION

Johns Hopkins University <i>Ph.D. in Computer Science</i> <i>Advisor: Dr. Benjamin Van Durme</i>	Baltimore, Maryland Expected May 2028
University of Rochester <i>B.S. in Computer Science; Highest Honors in Research</i> <i>Advisor: Dr. Aaron Steven White, Dr. Jiebo Luo</i> <i>Thesis: Human-Centric Event Representations at the Document Level and Beyond</i>	Rochester, New York May 2024

RESEARCH

Human Language Technology Center of Excellence <i>Researcher Intern; Advised by Dr. Benjamin Van Durme</i> Researched extracting information about events from videos and aligned text and video retrieval.	Summer 2024
Formal And Computational Semantics Lab <i>Undergraduate Researcher; Advised by Dr. Aaron Steven White</i> Researched extracting and summarizing information about events from large unstructured text.	May 2022 – May 2024
Visual Intelligence & Social Multimedia Analytics Lab <i>Undergraduate Researcher; Advised by Dr. Jiebo Luo</i> Researched methods for understanding and extracting information from videos and methods for generating images to inform research in evolutionary biology.	Aug. 2022 – May 2024
Environmental Protection Agency <i>Research Intern; Advised by Dr. Andrea Kirk</i> Developed methods for relative importance analysis to measure the effects of PFAS exposure on humans and their health, including cancer risk and bone mineral density.	Summer 2024 – Fall 2024
Rochester Human Computer Interaction Lab <i>Research Assistant; Advised by Dr. Ehsan Hoque</i> Created synthetic datasets to improve performance of hand pose estimation models for diagnosing Parkinson's Disease in virtual health appointments.	Nov 2022 – April 2024

HONORS, AWARDS, & GRANTS

National Science Foundation, Graduate Research Fellowship (\$37,000/yr)	2024 – 2027
University of Rochester, Charles L. Newton Prize (\$2,010)	2024
University of Rochester, President's Award in Engineering and Mathematics	2024
CRA, Outstanding Undergraduate Research Award Honorable Mention	2024
University of Rochester, Research Presentation Grant (\$1,300)	2023
University of Rochester, Deans' Award in Engineering and Mathematics	2023
University of Rochester, River Campus Libraries Data Set Grant (\$850)	2023
University of Rochester, Residential Life Best Program of the Year	2023
University of Rochester, Make It Happen Grant (\$500)	2022

PUBLICATIONS

- W. Gantt, **A. Martin**, P. Kuchmiichuk, A.S. White “Event-Keyed Summarization” ([ArXiv](#), 2024)
- S. Vashishtha, **A. Martin**, W. Gantt, B. Van Durme, A.S. White “FAMuS: Frames Across Multiple Sources” ([NAACL](#), 2024)
- A. Martin**, H. Zheng, J. An, J. Luo “Jurassic World Remake: Bringing Ancient Fossils Back to Life via Zero-Shot Long Image-to-Image Translation” ([MM](#) 2024, [Oral Presentation](#))
- S. Barham, et al. (incl **A. Martin**) “MegaWika: Millions of reports and their sources across 50 diverse languages” ([ArXiv](#), 2023)

A. Kirk, A. DeStafano, **A. Martin**, K. Kirk, C. Martin “A New Interpretation of Relative Importance on An Analysis of Per and Polyfluorinated Alkyl Substances (PFAS) Exposures on Bone Mineral Density” (IJERPH 2023)

TALKS

Peer Workshop: <i>FAMuS: Frames Across Multiple Sources</i> (<u>Slides</u>)	Mar. 2024
ACM Multimedia: <i>Jurassic World Remake</i> (<u>Slides</u>)	Oct. 2023

TEACHING EXPERIENCE

University of Rochester

Introduction to Artificial Intelligence (CSC 242)	Spring 2023
Data Structures and Algorithms (CSC 172)	Spring 2022, Fall 2022
Introduction to Computer Science (CSC 171)	Fall 2021
Math and Computer Science Tutor	Fall 2021 – Fall 2023

LEADERSHIP & VOLUNTEERING

University of Rochester, Residential Life:

<i>Resident Advisor</i>	Aug. 2021 – May 2024
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STEM Initiative

<i>Education Mentor</i>	Rochester, New York Jan. 2021 – Dec. 2023
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SKILLS

Programming Languages: Python, Java, C++, Bash, **Familiar:** C, MATLAB, JavaScript, R

Tools: PyTorch, Hugging Face, Amazon Mechanical Turk, Docker, AWS

Soft Skills: Small group instruction, conflict resolution