

# Alexander Martin

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## EDUCATION

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<b>Johns Hopkins University</b> <i>Ph.D. in Computer Science</i> <i>Advisor: Dr. Benjamin Van Durme</i>	<b>Baltimore, Maryland</b> Expected May 2029
<b>University of Rochester</b> <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>	<b>Rochester, New York</b> May 2024

## RESEARCH

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<b>Human Language Technology Center of Excellence</b> <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
<b>Formal And Computational Semantics Lab</b> <i>Undergraduate Researcher; Advised by Dr. Aaron Steven White</i> Researched extracting and summarizing information about events from large unstructured text.	2022 – 2024
<b>Visual Intelligence &amp; Social Multimedia Analytics Lab</b> <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.	2022 – 2024
<b>Environmental Protection Agency</b> <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 2022 – Fall 2022
<b>Rochester Human Computer Interaction Lab</b> <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.	2022 – 2024

## HONORS, AWARDS, & GRANTS

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National Science Foundation, <b>Graduate Research Fellowship</b>	2024 – 2029
University of Rochester, <b>Charles L. Newton Prize</b>	2024
University of Rochester, <b>Senior Research Award</b>	2024
University of Rochester, <b>Research Presentation Grant</b>	2024
University of Rochester, <b>Dean's Award in Engineering and Mathematics</b>	2024
CRA, <b>Outstanding Undergraduate Research Award Honorable Mention</b>	2024
University of Rochester, <b>Research Presentation Grant</b>	2023
University of Rochester, <b>Dean's Award in Engineering and Mathematics</b>	2023
University of Rochester, <b>River Campus Libraries Data Set Grant</b>	2023
University of Rochester, <b>Residential Life Best Program of the Year</b>	2023
University of Rochester, <b>Make It Happen Grant</b>	2022

## PUBLICATIONS

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- 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, Poster)
- 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

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| NAACL: <i>FAMuS: Frames Across Multiple Sources</i> ( <a href="#">Video</a> , <a href="#">Poster</a> ) | June 2024 |
| Peer Workshop: <i>FAMuS: Frames Across Multiple Sources</i> ( <a href="#">Slides</a> )                 | Mar. 2024 |
| ACM Multimedia: <i>Jurassic World Remake</i> ( <a href="#">Slides</a> )                                | Oct. 2023 |

## TEACHING EXPERIENCE

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### University of Rochester

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|---|------------------------|
| 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

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### University of Rochester, Residential Life:

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

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

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**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