

EDUCATION

- 2021-present | **Ph.D. Student at the University of Washington, Seattle, WA.**
Paul G. Allen School of Computer Science & Engineering
Co-advised by Jeffrey Heer and Daniel Weld
- 2016-2021 | **B.A. at the University of Pennsylvania, Philadelphia, PA.**
Bachelor of Arts in Cognitive Science with Summa Cum Laude
Minors in Computer Science, French
- 2019 | **Community Auditing Program at Princeton University, Princeton, NJ.**
Audited Computer Vision, NLP, Advanced Graph Theory (not for credit)
- 2019 | **Study Abroad at Lyon Lumière II, Lyon, France.**
Courses in French including Neuroscience, Human Computer Interaction, and Memory

PUBLICATIONS

- CHI 2024 | **How Do Data Analysts Respond to AI Assistance? A Wizard-of-Oz Study**
Ken Gu, Madeleine Grunde-McLaughlin, Andrew M McNutt, Jeffrey Heer, Tim Althoff
Conditionally Accepted at ACM Conference on Human Computer Interaction, 2024
- CSCW 2023 | **Explanations can Reduce Overreliance on AI Systems during Decision-Making**
Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Ranjay Krishna, Tobias Gerstenberg, and Michael Bernstein
ACM Conference on Computer-Supported Cooperative Work and Social Computing, 2023
- CHI 2022 | **When Do XAI Methods Work? A Cost-Benefit Approach to Human-AI Collaboration**
Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Ranjay Krishna, Tobias Gerstenberg, and Michael Bernstein
ACM Conference on Human Computer Interaction, TRAIT workshop, 2022
- CVPR 2022 | **AGQA-Decomp: Measuring Compositional Consistency for Video Question Answering**
Mona Gandhi, Mustafa Öümer Gul, Eva Prakash, Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala
IEEE conference on Computer Vision and Pattern Recognition, 2022
- CVPR 2021 | **AGQA: A Benchmark for Compositional Spatio-Temporal Reasoning**
Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala
IEEE conference on Computer Vision and Pattern Recognition, 2021
- InfoVis 2020 | **Bayesian-Assisted Inference from Visualized Data**
Yea-Seul Kim, Paula Kayongo, Madeleine Grunde-McLaughlin, Jessica Hullman
IEEE Transactions of Visualization & Computer Graphics (Proceedings of InfoVis), 2020

PREPRINTS AND WORKSHOP PAPERS

- 2023 | **Designing LLM Chains by Adapting Techniques from Crowdsourcing Workflows**
Madeleine Grunde-McLaughlin, Michelle S Lam, Ranjay Krishna, Daniel S Weld, Jeffrey Heer
ArXiv preprint, December 2023
- CSCW 2023 | **Semantic Navigator: Query Driven Active Learning for Historical Narrative Understanding**
Eva Maxfield Brown, Madeleine Grunde-McLaughlin, Isabelle Pestovski, Lanyi Zhu, Nicholas Weber
ACM Conference on Computer-Supported Cooperative Work and Social Computing, Community-Driven AI Workshop, 2023
- CHI 2022 | **When Do XAI Methods Work? A Cost-Benefit Approach to Human-AI Collaboration**
Helena Vasconcelos, Matthew Jörke, Madeleine Grunde-McLaughlin, Ranjay Krishna, Tobias Gerstenberg, and Michael Bernstein
ACM Conference on Human Computer Interaction, TRAIT Workshop, 2022
- 2022 | **AGQA 2.0: An updated benchmark for compositional spatio-temporal reasoning**
Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala
ArXiv, April 2022
- 2021 | **Model comparison of the effects of stimulus structure on visual working memory recall**
Madeleine Grunde-McLaughlin, Cheng Qiu, Alan A Stocker
Undergraduate Honors Thesis, April 2021

PRESENTATIONS

- 2023 | **Benchmarks for Vision-Language Compositional Reasoning**
Madeleine Grunde-McLaughlin, Cheng-Yu Hsieh
Talk, IEEE/CVF International Conference on Computer Vision (ICCV), CAMP Workshop, 2023
- 2023 | **Applying social computing workflows for text-editing with LLMs**
Madeleine Grunde-McLaughlin, Michelle Lam, Ranjay Krishna, Jeffrey Heer, Daniel Weld
Poster, CRA-WP Grad Cohort for Women Conference
- 2021 | **AGQA: A Benchmark for Compositional Spatio-Temporal Reasoning**
Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala
Poster, Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2021
- 2020 | **Measuring Spatio-Temporal Reasoning Through VideoQA**
Madeleine Grunde-McLaughlin, Ranjay Krishna, Maneesh Agrawala
Poster, Grace Hopper Celebration of Women in Computing

SELECTED AWARDS AND HONORS

- 2021 | **Allen School Computer Science & Engineering Research Fellowship**
1-year fellowship from the University of Washington Allen School
- 2021 | **College Alumni Society Prize in Cognitive Science**
Awarded to the best Cognitive Science thesis at the University of Pennsylvania
- 2021 | **Phi Beta Kappa Honor Society**

WORK EXPERIENCE

- 2023 | **Google Student Researcher** *Seattle, Washington*
- Explored reference validation with the Google Applied Science group
- 2018 | **Aravind Eye Care Systems Project Student**, *Madurai, India*
- Implemented a Moodle Learning Management System to track training completion for doctors and nurses
 - Led a focus group with 8 doctors to test the Learning Management System interface
 - Liaised between 5 departments to design the goals and implementation of this project
- 2017 | **Dynamix Gymnastics Assistant Camp Director**, *Langhorne, Pennsylvania*
- Managed a team of 11 coaches of various experience levels
 - Communicated goals and mediated interpersonal conflicts among coaches, parents, and children

SERVICE

- 2024 | **Inaugural para.chi.dub Session Chair Organizer**, *University of Washington*
- Coordinated with and set expectations for session chairs and presenters.
 - Introduced speakers and sessions and moderated a panel.
 - Defined session chair and coordinator responsibilities.
- 2023-present | **New Grad Mentoring Organizer**, *University of Washington*
- Coordinating and matching first-year and older student pairs
 - Organizing quarterly events for all mentors and mentees
- 2022-2023 | **Doctoral Colloquium Coordinator for DUB (Design Use Build)**, *University of Washington*
- Organized a workshop for Ph.D. students to get feedback on their dissertation plan
 - Recruited 6 panelists across industry and academia
 - Coordinated and ran a full-day event in which students present their research and faculty give feedback
- 2022-2023 | **New Grad Mentor**, *University of Washington*
- Organizing events for new students to build community
 - Supporting first year students as they adapt to the PhD program
- 2017-2021 | **Penn for Refugee Empowerment**, *University of Pennsylvania*
- Served as Vice President and Director of Tutoring
 - Co-founded tutoring program that now connects 50+ volunteers to tutor refugees in Philadelphia and abroad
 - Re-structured the organization's focus to increase tutoring numbers by over 300% in one semester
 - Participated in the UN TOGETHER Campaign to promote university student led refugee aid organizations
 - Tutored high school students at the African Family and Health Organization (AFAHO) in West Philadelphia
- 2018-2021 | **Alpha Phi Omega Service Fraternity**, *University of Pennsylvania*
- Served as Pledge Service Chair and on the Leadership Committee
 - Volunteered at various service events in Philadelphia such as UHC soup kitchens and Books Through Bars
 - Led a service committee that collaborated with an event cleaning streets in North Philadelphia

TECHNICAL SKILLS

Advanced - Python; Proficient - Pytorch, Tensorflow, HTML/CSS, Flask, R, Java; Basic - React, D3, Idyll