

EDUCATION

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

PUBLICATIONS

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

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

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**

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

WORK EXPERIENCE

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| 2023 | Google Student Researcher <i>Seattle, Washington</i> <ul style="list-style-type: none">• Explored reference validation with the Google Applied Science group |
| 2018 | Aravind Eye Care Systems Project Student , <i>Madurai, India</i> <ul style="list-style-type: none">• 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 , <i>Langhorne, Pennsylvania</i> <ul style="list-style-type: none">• Managed a team of 11 coaches of various experience levels• Communicated goals and mediated interpersonal conflicts among coaches, parents, and children |

SERVICE

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| 2023-present | New Grad Mentoring Organizer , <i>University of Washington</i> <ul style="list-style-type: none">• 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) , <i>University of Washington</i> <ul style="list-style-type: none">• 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 , <i>University of Washington</i> <ul style="list-style-type: none">• 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 , <i>University of Pennsylvania</i> <ul style="list-style-type: none">• 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 , <i>University of Pennsylvania</i> <ul style="list-style-type: none">• 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