

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>
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>

SELECTED AWARDS AND HONORS

2023	CSCW Best paper honorable mention , awarded to top 23 papers <i>“Explanations can Reduce Overreliance on AI Systems during Decision-Making”</i>
2021	Allen School Computer Science & Engineering Research Fellowship <i>1-year fellowship from the University of Washington Allen School</i>
2021	College Alumni Society Prize in Cognitive Science <i>Awarded to the best Cognitive Science thesis at the University of Pennsylvania</i>
2021	Phi Beta Kappa Honor Society

PREPRINTS AND WORKSHOP PAPERS

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

PRESENTATIONS

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

TEACHING

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| 2024 | CSE 442 Data Visualization Teaching Assistant, Professor Jeffrey Heer |
| 2024 | CSE 512 Data Visualization Teaching Assistant, Professor Jeffrey Heer |
| 2021-2022 | Mentoring three undergraduate/masters students to publication |

ACADEMIC SERVICE

2024-present	DUB (Design Use Build) Coordinator , <i>University of Washington</i> <ul style="list-style-type: none">Recruiting, training, and supporting speaker hosts for DUB seminar.Recruiting, training, and supporting DUB Doctoral Colloquium Coordinators.Supporting coordination of DUB events such as DUB Community Day and job panels.
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 pairsOrganizing quarterly events for all mentors and mentees
2024	Inaugural para.chi.dub Session Chair Organizer , <i>University of Washington</i> <ul style="list-style-type: none">Defined session chair responsibilities.Coordinated and instructed 3 other session chairs and 15 presenters.Moderated a panel and introduced speakers and sessions.Collaborated on building the event schedule and goals
2024	Visit Days non-standard visitor coordinator , <i>University of Washington</i> <ul style="list-style-type: none">Organized a schedule and meetings for prospective students visiting at non-standard times.
2023	Visit Days PCS Area HCI Lead Scheduler-in-Chief , <i>University of Washington</i> <ul style="list-style-type: none">Coordinated prospective students visit days scheduling categories.
2023-2024	HCI Seminar Organizer , <i>University of Washington</i> <ul style="list-style-type: none">Coordinated weekly speakers for seminar presentations.
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 planRecruited 6 panelists across industry and academiaCoordinated 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 communitySupporting first year students as they adapt to the PhD program
2021-present	Conference Reviewer <ul style="list-style-type: none">Conferences: CHI 2024, UIST 2024, VIS VDS 2024, CSCW 2023, TiiS 2022, UIST 2022Workshops: CHI 2024 Late-Breaking Work, ECCV 2024, TREW 2024, TRAIT 2023, TRAIT 2022

WORK EXPERIENCE

2023	Google Student Researcher <i>Seattle, Washington</i> <ul style="list-style-type: none">Designed a system for validating academic reference quality with the Google Applied Science groupConducted informational interviews to assess current practices and inform system design
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 nursesLed a focus group with 8 doctors to test the Learning Management System interface
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 levelsCommunicated goals and mediated interpersonal conflicts among coaches, parents, and children

TECHNICAL SKILLS

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