

# Narges Mahyar

Senior Lecturer  
City St George's, University of London  
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## RESEARCH INTERESTS & MISSION

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My mission is to build a new paradigm of **"Visualization for Collective Empowerment"** by designing, developing and studying tools, techniques, interactions and theories that integrate data visualization with AI, AR/VR, public technology, and design to enhance communication, engagement, analysis and decision-making. I focus on creating inclusive, human-centered tools that support both experts and the general public in understanding and acting on complex information, particularly for climate change communication, sustainability, health, education, and civic life. Through this work, I aim to democratize data interaction and train the next generation of interdisciplinary leaders committed to designing and building technology for social good.

## EDUCATION

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PhD in Computer Science, University of Victoria, Victoria, BC, CA. 2014  
Dissertation: Supporting Sensemaking during Collocated Collaborative Visual Analytics.  
Advisor: Melanie Tory

Master of Information Technology, University of Malaya, KL, Malaysia 2008  
Thesis: Implementation of Creative-Pad: A New Creativity Support System.  
Advisor: Wai (Albert) Yeap

## RESEARCH POSITIONS

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- **Senior Lecturer (Associate Professor)**, City St George's, University of London, London. 2025–Present
- **Associate Professor**, University of Massachusetts Amherst, Amherst, MA. 2024–Present
- **Sabbatical**, Inria Center at University of Paris - Saclay, Aviz team, Gif - Sur - Yvette, France. Nov 1, 2024–July 31, 2025
- **Harvard Radcliffe Fellow**, Radcliffe Institute for Advanced Study, Harvard University, Cambridge, MA. 2023–2024
- **Assistant Professor**, University of Massachusetts Amherst, Amherst, MA. 2018–2024
- **Design Lab Fellow & Postdoctoral Researcher**, UCSD, San Diego, CA. 2016–2018, Advisor: Steven P. Dow
- **Postdoctoral Fellow**, University of British Columbia, Vancouver, BC. 2014–2016, Advisors: Kellogg Booth, Cynthia Girling, Ronald Kellett
- **Research Assistant**, University of Victoria, Victoria, BC, Canada. 2008–2014, Advisor: Melanie Tory
- **Research Intern**, SAP, Vancouver, BC, Canada. Summer 2009, Advisor: Michael McAllister
- **Research Assistant**, University of Malaya, KL, Malaysia. 2006–2008, Advisor: Wai (Albert) Yeap



## ACADEMIC AWARDS & HONORS

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- 2025 **Best Paper Honorable Mention Award**, ACM Conference on Human Factors in Computing Systems (CHI) for "AI-Enabled Conversational Journaling for Advancing Parkinson's Disease Symptom Tracking"
- 2023–2024 **Harvard Radcliffe Fellow**, Radcliffe Institute for Advanced Study at Harvard University
- 2023 **Best Paper Award**, ACM Conference on Human Factors in Computing Systems (CHI) for "Who Do We Mean When We Talk About Visualization Novices"
- 2022 **Best Paper Award**, Eurographics/IEEE VGTC Symposium on Visualization (EuroVis) for "Of Course it's Political! A Critical Inquiry into Underemphasized Dimensions in Civic Text Visualization"
- 2022 **Runner-up Best Paper Award**, ACM Transactions on Interactive Intelligent Systems (TiiS) for "ClioQuery: Interactive Query-Oriented Text Analytics for Comprehensive Investigation of Historical News Archives"
- 2022 **Recognition of Service**, ACM – Paper Co-Chair, Creativity and Cognition (C&C) 2021
- 2021 **Best Paper Honorable Mention Award**, ACM Designing Interactive Systems (DIS) for "CommunityPulse: Facilitating Community Input Analysis by Surfacing Hidden Insights, Reflections, and Priorities"
- 2020 **Best Paper Award**, ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) for "CommunityClick: Capturing and Reporting Community Feedback from Town Halls to Improve Inclusivity"
- 2016 **Outstanding Paper Award**, Council of Educators in Landscape Architecture for "Collaboration Tools to Support Informed Public Engagement"
- 2016 **Best Paper Honorable Mention Award**, ACM Interactive Surfaces and Spaces (ISS) for "UD Co-Spaces: A Table-Centered Multi-Display Environment for Public Engagement in Urban Design Charrettes"
- 2016 **Best Poster Honorable Mention Award**, Graphics Interface (GI) for "A Multi-Display Environment for Community Planning"
- 2014 **Best Paper Award**, IEEE Visual Analytics Science and Technology (VAST) for "Supporting Communication and Coordination in Collaborative Sensemaking"
- 2014 **Best Research Note Honorable Mention**, Graphics, Animation & New Media (GRAND) for "CLIP: A Visual Thinking Space to Support Collaborative Sensemaking and Reasoning"
- 2010 **Top 4 Papers**, IEEE VAST for "A Closer Look at Note Taking in the Co-located Collaborative Visual Analytics Process"

## GRANT & FELLOWSHIP SUPPORT

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- **NSF SATC: CORE (Co-PI)** — "Principles and Algorithms for Visual Data Exploration Under Differential Privacy"  
Award Period: 07/01/2020 – 06/30/2023 \$1,191,106
- **NSF Computing Innovation Fellows 2021**  
Award Period: 05/01/2022 – 04/31/2023 \$241,936
- **NSF Smart and Connected Communities Planning Grant (PI)** — "MAPPING INSTABILITY: Building an Intelligent Community Agent Platform"  
Award Period: 10/01/2021 – 07/31/2023 \$146,941
- **Harvard Radcliffe Fellowship**  
Award Period: 09/01/2023 – 05/31/2024 \$78,000
- **Institut DataIA Paris - Saclay (DATAIA) (PI)** — "Harnessing AI to Enhance Climate Change Communication: Personalizing Data Stories for Greater Impact"  
Award Period: 10/01/2024 – 07/31/2025 €41,500



- **UMass ADVANCE Seed Grant (Co-PI)** — “MAPPING INSTABILITY: The Effects of the Pandemic on Civic Life”  
Award Period: 11/11/2020 – 11/11/2021 \$15,000
- **UMass ADVANCE Seed Grant (Co-PI)** — “Reducing Social Inequality in Local-Level Public Participation”  
Award Period: 04/14/2021 – 04/14/2022 \$12,000
- **Public Interest Technology Initiative (Co-PI)** — “Voice-Enabled Conversational Journaling for Parkinson’s Disease”  
Award Period: 04/01/2023 – 10/30/2023 \$9,000

## PUBLICATIONS



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*Note: Top-tier venues in human-computer interaction research include the ACM conferences CHI and CSCW. The premium venue in visualization and visual analytics is IEEE VIS. Highest quality VIS/VAST papers appear in a special issue of IEEE Transactions on Visualization and Computer Graphics (TVCG). ISS is the premier venue for research on the design, development, and use of emerging tabletop, interactive spaces, and multi-surface technologies. Students I supervised are in **bold**.*

### Refereed Journal Publications

- J17. Anna Fariha, **Lucy Cousins**, Narges Mahyar, and Alexandra Meliou. “Example-driven semantic-similarity-aware query intent discovery: Empowering users to cross the SQL barrier through query by example,” *Information Systems* (2026): 102687.
- J16. Liudas Panavas, **Amit Sarker**, Sara Di Bartolomeo, Ali Sarvghad, Cody Dunne, Narges Mahyar, “*Illuminating the Landscape of Differential Privacy: An Interview Study on the Use of Visualization in Real-World Deployments*”, *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, pp. 1–16, 2024.
- J15. Emre Oral, **Ria Chawla**, Michel Wijkstra, Narges Mahyar, Evanthia Dimara, “*From Information to Choose: A Critical Inquiry into Visualization Tools for Decision Making*”, *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 30(1), pp. 359–369, 2024.
- J14. Sharon Yavo-Ayalon, **Swapna Joshi**, Yuzhen Zhang, Ruixiang Han, Narges Mahyar, Wendy Ju, “*Building Community Resiliency through Immersive Communal Extended Reality (CXR)*”, *Multimodal Technologies and Interaction*, 7(5), 43, 2023.
- J13. **Alyxander Burns**, Thai On, Christiana Lee, Cindy Xiong, Evan Peck and Narges Mahyar, “From Invisible to Visible: Impacts of Metadata in Communicative Data Visualization”, 13 Pages, *IEEE Transactions on Visualization and Computer Graphics Journal (TVCG)*, pp. 1-16, 2022.
- J12. Eric P. S. Baumer, **Mahmood Jasim**, Ali Sarvghad and Narges Mahyar, “Of Course it’s Political! A Critical Inquiry into Underemphasized Dimensions in Civic Text Visualization”, *EuroVis 2022*, Volume 4, no. 3, 14 Pages, 2022.  
🏆 [Best Paper Award]
- J11. **Abram Handler**, Narges Mahyar, and Brendan O’Connor, “ClioQuery: Interactive Query-Oriented Text Analytics for Comprehensive Investigation of Historical News Archives”, *Transactions on Interactive Intelligent Systems (TiiS)*, Article No. 22, pp. 1–49, 2022.  
🏆 [Best Paper Honorable Mention Award]



- J10. Ali Sarvghad, **Rolando Franqui-Nadal**, Rebecca Reznik-Zellen, **Ria Chawla** and Narges Mahyar, "Scientometric Analysis of Interdisciplinary Collaboration and Gender Trends in 30 Years of IEEE VIS Publications", IEEE Transactions on Visualization and Computer Graphics (TVCG), 12 pages, 2022.
- J9. Brandon Reynante, Steven P. Dow and Narges Mahyar "A Framework for Open Civic Design: Integrating Public Participation, Crowdsourcing, and Design Thinking", ACM Digital Government: Research and Practice (DGOV), Volume 2, Issue 4, pp. 1-22, Oct 2021.
- J8. **Alyxander Burns**, Cindy Xiong, Steven Franconeri, Alberto Cairo and Narges Mahyar, "Designing with Pictographs: Envision Topics without Sacrificing Sensemaking", IEEE Transactions on Visualization and Computer Graphics (TVCG), 13 pages, 2021.
- J7. Hee-Tae Jung, Taiwoo Park, Narges Mahyar, Sungji Park, Taekyeong Rye, Yangsoo Kim and Sunghoon Ivan Lee, "Rehabilitation Games in Real-World Clinical Settings: Practices, Challenges, and Opportunities", ACM Transactions on Computer-Human Interaction Journal (ACM TOCHI, presented at ACM CHI 2021), vol. 27, no.6, pp. 1-43, 2020.
- J6. **Sarmad Mehrbod**, Sheryl Staub-French, Narges Mahyar and Melanie Tory, "Beyond the clash: investigating BIM-based building design coordination issue representation and resolution", Journal of Information Technology in Construction (ITcon) 24.3, pp. 33-57, 2019.
- J5. **Sarmad Mehrbod**, Sheryl Staub-French, Narges Mahyar and Melanie Tory, "Characterizing Interactions with BIM Tools in Building Design Coordination Meetings", Journal of Automation in Construction, vol. 98, pp. 195-213, 2019.
- J4. Girling, Cynthia, Ronald W. Kellett, Kellogg S. Booth, Narges Mahyar, **Kelly J. Burke** and Alix Krahn, "Collaboration Tools to Support Informed Public Engagement", Landscape Research Record, NO. 06, pp. 264-278. 2017.
-  **[Outstanding Paper Award, Council of Educators in Landscape Architecture]**
- J3. Ali Sarvghad, Melanie Tory and Narges Mahyar, "Visualizing Dimension Coverage to Support Exploratory Analysis", IEEE Transactions on Visualization and Computer Graphics (TVCG), 10 pages, vol. 23, no.1, pp.21-30. 2016.
- J2. Narges Mahyar and Melanie Tory, "Supporting Communication and Coordination in Collaborative Sensemaking", IEEE Transactions on Visualization and Computer Graphics (TVCG), pp. 1633-1642, 2014.
-  **[Best Paper Award]**
- J1. Narges Mahyar, Ali Sarvghad and Melanie Tory, "Note Taking in Co-located Collaborative Visual Analytics: Analysis of an Observational Study", Information Visualization, vol. 11, no. 3, pp. 190-204, 2012.
- [Special Issue on VAST 2010 top 4 papers]**

#### Refereed Conference Publications

- C21. Hessam Djavaherpour, Leni Yang, Yvonne Jansen, Pierre Dragicevic, Narges Mahyar, Mahmood Jasim, "Does Background Music Matter in Data Videos? A Study of Music's Impact on Persuasion, Engagement, and Recall", ACM Conference on Human Factors in Computing Systems (CHI) 2026, To appear.
- C20. Ziwei Gu, Joyce Zhou, Ning-Er (Nina) Lei, Jonathan K. Kummerfeld, Mahmood Jasim, Narges Mahyar, and Elena L. Glassman, "AbstractExplorer: Leveraging Structure-Mapping Theory to Enhance Comparative Close Reading at Scale", ACM Symposium on User Interface Software and Technology (UIST) 2025, pp.1-25, 2025.



- C19. **Mashrur Rashik**, Jean-Daniel Fekete, and Narges Mahyar, "CLAlmate: AI-Enabled Climate Change Communication through Personalized and Localized Narrative Visualizations", pp. 36-40. IEEE, 2025.
- C18. **Mashrur Rashik, Shilpa Sweth, Nishtha Agrawal, Saiyyam Kochar**, Kara M Smith, Fateme Rajabiyazdi, Vidya Setlur, Narges Mahyar, and Ali Sarvghad, "AI-Enabled Conversational Journaling for Advancing Parkinson's Disease Symptom Tracking", ACM Conference on Human Factors in Computing Systems (CHI) 2025, pp. 1-23.  
🏆 [Best Paper Honorable Mention Award]
- C17. **Mashrur Rashik, Mahmood Jasim**, Kostiantyn Kucher, Ali Sarvghad, Narges Mahyar, "Beyond Text and Speech in Conversational Agents: Mapping the Design Space of Avatars", ACM Designing Interactive Systems (DIS), 27 pages, 2024.
- C16. Priyanka Nanayakkara, Hyeok Kim, Yifan Wu, Ali Sarvghad, Narges Mahyar, Gerome Miklau, Jessica Hullman, "Measure-Observe-Remeasure: An Interactive Paradigm for Differentially-Private Exploratory Analysis," IEEE Symposium on Security and Privacy (IEEE S&P), 12 pages, 2024.
- C15. **Sheshera Mysore, Mahmood Jasim, Haoru Song, Sarah Akbar, Andre Kenneth Chase Randall** and Narges Mahyar, "Exploring how Data Scientists Review Scholarly Literature", ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR), pp. 137-152. 2023.
- C14. **Alyxander Burns, Christiana Lee, Ria Chawla**, Evan Peck and Narges Mahyar, "Who Do We Mean When We Talk About Visualization Novices?", ACM Conference on Human Factors in Computing (CHI), pp. 1-16, 2023.  
🏆 [Best Paper Award]
- C13. **Zhiqiu Jiang, Mashrur Rashik**, Kunjal Panchal, **Mahmood Jasim**, Ali Sarvghad, Pari Riahi, Erica Dewitt, Fay Thurber and Narges Mahyar, "CommunityBots: Creating and Evaluating a Multi-Agent Chatbot Platform for Public Input Elicitation", Proceedings of the ACM Computer-Supported Cooperative Work and Social Computing (CSCW), pp. 1-32, 2023.
- C12. Erica Dewitt, **Zhiqiu Jiang, Mashrur Rashik**, Kunjal Panchal, Mahmood Jasim, Fey Thurber, Cami Quinteros, Ali Sarvghad, Narges Mahyar, and Pari Riahi, "Mapping Instability: The Effects of the Pandemic on the Civic Life of a Small Town", Environments by Design: Health, Wellbeing, and Place Conference, AMPS proceeding Series 26.2, pp. 170-181, 2022.
- C11. **Mahmood Jasim**, Christopher Collins, Ali Sarvghad and Narges Mahyar, "Supporting Serendipitous Discovery and Balanced Analysis of Online Product Reviews with Interaction-Driven Metrics and Bias-Mitigating Suggestions", ACM Conference on Human Factors in Computing (CHI), pp.1-24, 2022.
- C10. **Mahmood Jasim**, Enamul Hoque, Ali Sarvghad and Narges Mahyar, "CommunityPulse: Facilitating Community Input Analysis by Surfacing Hidden Insights, Reflections, and Priorities", ACM Designing Interactive Systems (DIS), pp. 846-863, 2021.  
🏆 [Best Paper Honorable Mention Award]
- C9. Carolina Aragón, **Mahmood Jasim** and Narges Mahyar, "RisingEMOTIONS: Bridging Art and Technology to Increase Public Engagement with Climate Change", ACM Creativity and Cognition (C&C), pp. 1-10, 2021.



**[Nominated for 100 best CODAaward Projects 2021]** \*CODAawards are prestigious international design awards recognizing exceptional projects that integrate commissioned art into interior, architectural, and public spaces.

- C8. **Mahmood Jasim, Pooya Khaloo, Somin Wadhwa**, Amy X. Zhang, Ali Sarvghad and Narges Mahyar, "CommunityClick: Capturing and Reporting Community Feedback from Town Halls to Improve Inclusivity", ACM Computer-Supported Cooperative Work and Social Computing (CSCW), pp. 1-32, 2020.  
🏆 **[Best Paper Award]**
- C7. Narges Mahyar, **Diana V. Nguyen, Maggie Chan, Jiayi Zheng** and Steven P. Dow, "The Civic Data Deluge: Understanding the Challenges of Analyzing Large-Scale Community Input", ACM Designing Interactive Systems (DIS), pp. 1171-1181, 2019.
- C6. Narges Mahyar, **Michael James, Michelle Ng, Reggie Wu** and Steven P. Dow, "CommunityCrit: Inviting the Public to Improve and Evaluate Urban Design Ideas through Micro-Activities", ACM Human Factors in Computing Systems (CHI), pp. 1-14, 2018.
- C5. Narges Mahyar, **Kelly Burke, Siyi Meng, Jialiang Xiang**, Kellogg S. Booth, Cynthia Girling and Ronald Kellett, "UD Co-Spaces: A Table-Centered Multi-Display Environment for Public Engagement in Urban Design Charrettes", Interactive Surfaces and Spaces (ISS '16), ACM, pp. 109-118, 2016.  
🏆 **[Best Paper Honorable Mention Award]**
- C4. **Sarmad Mehrbod**, Sheryl Staub-French, Melanie Tory and Narges Mahyar, "A Framework for Classifying BIM Design Coordination Issues", Construction Specialty Conference, June 8-10, pp. 329-429, 2015.
- C3. Narges Mahyar, Ali Sarvghad, Melanie Tory and Tyler Weeres, "Observations of Record-Keeping in Co-located Collaborative Analysis", HCI Mini-Track, HICSS 2013, pp. 460-469, 2013.
- C2. Narges Mahyar, Ali Sarvghad, and Melanie Tory, "A Closer Look at Note Taking in the Co-located Collaborative Visual Analytics Process," IEEE Visual Analytics Science and Technology (VAST'10), pp. 171-178, 2010.  
🏆 **[Top 4 Best VAST Papers]**
- C1. Wai K. Yeap, Tommi Opas and Narges Mahyar, "On Two Desiderata for Creativity Support Tools", Conference on Computational Creativity, pp. 180-189, 2010.

### **Refereed Workshop Papers**

- W18 Mahmood Jasim and Narges Mahyar, "Beyond the Prototype: Challenges of Long-Term Integration of Visual Analytics in Civic Spaces", VIS gap Workshop, in conjunction with EuroVis 2025, 7 pages.
- W17 Narges Mahyar, "Reimagining Data Visualization to Address Sustainability Goals", VISions of the Future Workshop, in conjunction with IEEE VIS 2024, 5 pages.
- W16 Narges Mahyar, "Harnessing Visualization for Climate Action and Sustainable Future", Vis4Climate+sustainability workshop, 5 pages.
- W15 **Mahmood Jasim**, Ali Sarvghad, Narges Mahyar, "CommunityClick-Virtual: Multimodal Interactions for Enhancing Participation in Virtual Meetings", Multimodal Experiences for Remote Communication Around Data Online (MERCADO) Workshop, in conjunction with IEEE VIS 2023, 5 pages.



- W14 **Mahmood Jasim**, Mohit Iyyer, Narges Mahyar, "Unveiling Insights: Surfacing Fine-Grained Discourse Acts in Short Free-Form Public Input Text through Visual Analytics", Exploring Research Opportunities for Natural Language, Text, and Data Visualization (NLVIZ) Workshop, in conjunction with IEEE VIS 2023, 5 pages.
- W13 **Mahmood Jasim, Mumtaz Fatima**, Sagarika Ramesh Sonni, Narges Mahyar, "Bridging the Divide: Promoting Serendipitous Discovery of Opposing Viewpoints with Visual Analytics in Social Media", Visualization for Social Good (VIS4SG) Workshop, in conjunction with IEEE VIS 2023, pp. 26-30.
- W12 Pantea Haghighatkah, Mennatallah El-Assady, Jean-Daniel Fekete, Narges Mahyar, Carita Paradis, Vasiliki Simaki, Bettina Speckmann, "Characterizing Uncertainty in the Visual Text Analysis Pipeline", Visualization for Digital Humanities (Vis4DH) workshop, In conjunction with IEEE VIS 2022, Oct 16-21, 2022.
- W11 Kostiantyn Kucher, Nicole Sultanum, Angel Daza, Vasiliki Simaki, Maria Skeppstedt, Barbara Plank, Jean-Daniel Fekete, Narges Mahyar, Workshop on Evaluation and Beyond-Methodological Approaches for Visualization (BELIV 2022), in conjunction with IEEE VIS 2022, Oct 16-21, 2022.
- W10 **Alyxander Burns, Thai On, Christiana Lee**, Rachel Shapiro, Cindy Xiong, Narges Mahyar, "Making the Invisible Visible: Risks and benefits of disclosing metadata in visualization", IEEE Workshop on Visualization for Social Good (VIS4Good), pp. 11-15, 2021.
- W9 Alyxander Burns, Cinxy Cindy Xiong, Steven Franconeri, Alberto Cairo and Narges Mahyar, "How to evaluate data visualizations across different levels of understanding", BELIV Workshop on Evaluation and Beyond-Methodological Approaches for Visualization, in conjunction with IEEE VIS 2020, pp. 19-28, 2020.
- W8 **Mahmood Jasim**, Amy X. Zhang, Ali Sarvghad and Narges Mahyar, "Inclusivity in Town Halls: Challenges, Paradigm Shift, and Opportunities", Civic Technologies Workshop, in conjunction with CSCW 2020, 5 pages, 2020.
- W7 Narges Mahyar, **Weichen Liu, Dangyi Liu** and Steven P. Dow, Enabling Crowdsourced Visualizations to Support Large-Scale Civic Engagement, Workshop on Crowd-Civic Systems, CSCW 2017, 5 pages, 2017.
- W6 Narges Mahyar, Kellogg S. Booth, Cynthia Girling and Ronald Kellett, "Just Scratch-ing the Surface, the Long Road to Effective Cross-Display Interaction", Cross-Surface '16 workshop, in conjunction with ACM ISS'16, 7 pages, 2016.
- W5 Narges Mahyar, Sung-Hee Kim and Bum Chul Kwon, "Towards a Taxonomy for Evaluating User Engagement in Information Visualization", Workshop on Personal Visualization: Exploring Everyday Life, IEEE VIS 2015, 4 pages, 2015.
- W4 Ronald Kellett, Kellogg Booth and Narges Mahyar, "Collaboration Technology for Stakeholder Engagement in Urban Planning", Information Technology & City Life Workshop, CSCW 15, March 14-16, 2 pages, 2015.
- W3 Narges Mahyar, Ali Sarvghad, Melanie Tory and Tyler Weeres "CoSpaces: Workspaces to Support Co-located Collaborative Visual Analytics," DEXIS 2011, 4 pages, Nov 2011.
- W2 Narges Mahyar, Ali Sarvghad, and Melanie Tory, "Roles of Notes in Co-located Collaborative Visualization", Workshop on Collaborative Visualization on Interactive Surfaces (CoVis 2009), 4 pages, Oct. 2009.



- W1 Ali Sarvghad, Narges Mahyar and Melanie Tory, "History Tools for Collaborative Visualization," Workshop on Collaborative Visualization on Interactive Surfaces (CoVis 2009), 4 pages, Oct. 2009.

### **Refereed Abstract, Poster & Demo Papers**

- A10. Ziwei Gu, Joyce Zhou, Ning-Er (Nina) Lei, Jonathan K. Kummerfeld, Mahmood Jasim, Narges Mahyar, and Elena L. Glassman, "AbstractExplorer: Leveraging Structure-Mapping Theory to Enhance Comparative Close Reading at Scale", ACM Symposium on User Interface Software and Technology (UIST) 2025, 22 page.
- A9 **Angelika Ladia, Maanas Peri, Dylan Landman, Mahmood Jasim** and Narges Mahyar, "Reimagining the Virtual Classroom: Enhancing Engagement and Student-Teacher Interaction in the Digital Age." Creativity and Cognition. 2023.
- A8 **Andrew Cunningham, Alyxander Burns** and Narges Mahyar, "Looking to the Past to Visualize the Present: Revisiting W.E.B. Du Bois' Abolitionist Visualizations", In Posters of the IEEE Conference on Visualization, 2 pages, 2020.
- A7 Mahmood Jasim, Pooya Khaloo, Somin Wadhwa, Amy X. Zhang, Ali Sarvghad and Narges Mahyar, "CommunityClick: Towards Improving Inclusivity in Town Halls". In Companion Publication of the 2020 Conference on Computer Supported Cooperative Work and Social Computing (CSCW'20 Companion), ACM, pp. 37–41, 2020.
- A6 **Tamanna Motahar, Mahmood Jasim**, Syed Ishtiaque Ahmed and Narges Mahyar, "Exploring How International Graduate Students in the US Seek Support", ACM Conference on Human Factors in Computing Systems (CHI), Extended Abstract, PP. 1-8, CHI, 2020.
- A5 **Mahmood Jasim**, Ali Sarvghad, Enamul Hoque and Narges Mahyar, "Towards Understanding Desiderata for Large-Scale Civic Input Analysis", ACM Conference on Human Factors in Computing Systems (CHI), Extended Abstract, pp.1-8, CHI, 2020.
- A4 Cynthia Girling, Kellogg S. Booth, Narges Mahyar, Ronald Kellett and Kelly Burke, "Fast and Early Feedback: Collaboration Tools to Support Informed Public Engagement", Council of Educators in Landscape Architecture Conference, Abstract, 4 pages, May 2017.
- A3 Narges Mahyar, **Weichen Liu, Sijia Xiao**, Jacob T. Browne, Ming Yang and Steven P. Dow, "ConsensusUs: Visualizing Points of Disagreement for Multi-Criteria Collaborative Decision Making", CSCW 2017, demonstration, 4 pages, 2017.
- A2 Narges Mahyar, Siyi Meng, Jialiang Xiang, Kellogg S. Booth, Cynthia Girling and Ronald Kellett, "A Multi-Display Environment for Community Planning", Graphics Interface (GI), 2 pages, Poster, 2016.
- 🏆 **[Best Poster Honorable Mention Award]**
- A1 Narges Mahyar and Melanie Tory, "CLIP: A Visual Thinking Space to Support Collaborative Sensemaking and Reasoning", Graphics, Animation and New Media (GRAND) NCE AGM, 4 pages research note, 2014.
- 🏆 **[Best Research Note Honorable Mention]**

### **Other Publications: Magazines, Commentary Papers & Doctoral Symposium**

- OP4 Iman Deznabi, Tamanna Motahar, Ali Sarvghad, Madelina Fiterau and Narges Mahyar, "Impact of the COVID-19 Pandemic on the Academic Community: Results from a survey conducted at University of Massachusetts Amherst", ACM Digital Government: Research and Practice (DGov), 2.2, pp. 1-12, 2021.



OP3 Narges Mahyar, Mahmood Jasim and Ali Sarvghad, "Designing Technology for Sociotechnical Problems: Challenges & Considerations, IEEE Computer Graphics and Applications (CG&A), (Volume: 40, Issue: 6), pp. 76-87, 2020.

**[Invited Article]**

OP2 Michael Sedlmair, Petra Isenberg, Tobias Isenberg, Narges Mahyar and Heidi Lam, Proceedings of the Sixth Workshop on "Beyond Time and Errors: Novel Evaluation Methods for Visualization" (BELIV 2016, October 24, Baltimore, Maryland, USA), October 2016.

OP1 Narges Mahyar, "Supporting Note Taking in Co-located Collaborative Visual Analytics on Large Interactive Surfaces", Part of the Doctoral Colloquium, ACM International Conference on Interactive Tabletops and Surfaces (ITS), 4 pages, Nov 2011.

Dissertation & Thesis

DT2 Narges Mahyar, Supporting Sensemaking during Collocated Collaborative Visual Analytics. Ph.D. Dissertation. University of Victoria, 2014.

DT1 Narges Mahyar, Implementation of Creative-Pad: A New Creativity Support System. MSc Thesis. University of Malaya, 2008.

**INVITED TALKS, PANELS, SEMINARS & WORKSHOPS**

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61. Narges Mahyar. Visualization for Collective Empowerment and Societal Transformation, **[Keynote Talk]** for the Computer Graphics & Visual Computing (CGVC) conference (co-located with EuroVis 2026 in Nottingham), June 12, 2026.
60. Narges Mahyar. Visualization for Collective Empowerment: Integrating AI, Design, and Public Technology [HCC Seminar Series] – King's College London, Department of Informatics, (Host: Alfie Abdul-Rahman), June 21, 2026.
59. Narges Mahyar. Harnessing Data for Social Impact – City St George's, University of London, Computer Science Department, (Host: Cristina Gacek), June 27, 2025.
58. Narges Mahyar. Harnessing Data for Social Impact – Inria Paris Saclay, Ex-Situ, (Host: Wendy Mackay), May 20, 2025.
57. Narges Mahyar. Community-Centered Computing – Mohamed bin Zayed University of AI, Department of Human-Computer Interaction, (Host: Elizabeth F. Churchill), Feb 4, 2025.
56. Narges Mahyar. Community-Centered Computing – Inria Bordeaux, Bivwac team, (Host: Benjamin Bach), Jan 24, 2025.
55. Narges Mahyar. Community-Centered Computing – University of Southern Denmark, Metaverse Lab, (Host: Anders Drachen), Jan 20, 2025.
54. Narges Mahyar. Community-Centered Computing – Telecom Paris, Economics and Social Sciences Department, (Host: Samuel Huron), Jan 16, 2025.
53. Narges Mahyar. Reimagining Data Visualization – Inria Saclay, AVIZ team, (Host: Jean-Daniel Fekete), Dec 6, 2024.
52. Narges Mahyar. Building Human-Centered Technologies to Democratize Data – **[Keynote Talk]** for the Civil, Structural and Environmental Engineering Conference (CIVILENG 2024), Rome, Oct 23–25, 2024.
51. Narges Mahyar. Harnessing Data for Social Impact – University of Virginia, Department of Computer Science, **[Distinguished Seminar]**, (Hosts: Yangfeng Ji and Kevin Skadron), Oct 11, 2024



50. Narges Mahyar. Harnessing Data for Social Impact – University of Copenhagen, Human-Centered Computing Section, (Host: Kasper Hornbæk), May 30, 2024.
49. Narges Mahyar. Harnessing Data for Social Impact – University of Warwick, Centre for Interdisciplinary Methodologies, (Host: Celia Lury), Feb 15, 2024.
48. Narges Mahyar. Harnessing Data for Social Impact – UC Berkeley, BID HCI Speaker Series, (Host: Marti Hearst), Jan 16, 2024.
47. Narges Mahyar. Harnessing Data for Social Impact – Stanford University, Human-Computer Interaction Seminar, (Host: Michael Bernstein), Jan 12, 2024.
46. Narges Mahyar. Harnessing Data for Social Impact – University of British Columbia, Computer Science Department, (Host: Tamara Munzner), Dec 7, 2023.
45. Narges Mahyar. Harnessing Data for Social Impact – CMU, Nov 17, HCI Seminar Series, (Hosts: Dominik Moritz and Sherry Tongshuang Wu), 2023.
44. Narges Mahyar. Harnessing Data for Social Impact – Boston College, (Host: Nam Wook Kim), Nov 6, 2023.
43. Narges Mahyar. Harnessing Data for Social Impact – University of Victoria, (Host: Charles Perin), Oct 12, 2023.
42. Narges Mahyar. Harnessing Data for Social Impact – MIT CSAIL, HCI Seminar Series, (Host: Arvind Satyanarayan), Oct 3, 2023.
41. Narges Mahyar. Harnessing Data for Social Impact – TU/e Industrial Design, (Host: Steven Houben), Sep 19, 2023.
40. Narges Mahyar. Harnessing Data for Social Impact – TU/e Mathematics and Computer Science Department, (Host: Anna Vilanova), Jun 5, 2023.
39. Narges Mahyar. RisingTides: Broadening Public Participation – Radcliffe Institute at Harvard, Radcliffe fellow talk series, Dec 13, 2023.
38. Narges Mahyar, Ali Sarvghad. Data Visualization for Effective Science Communication with Diverse Audience – **Invited Workshop**, Organized by University of Massachusetts Center for Clinical and Translational Science (UMCCTS) with the UMass Amherst Public Engagement Project, May 8, 2023.
37. Narges Mahyar. Human-Centered Computing – Concordia University, Department of Computer Science, (Host: Yann-Gaël Guéhéneuc), Mar 27, 2023.
36. Narges Mahyar. Human-Centered Computing – University of Maryland College Park, iSchool, (Host: Huaishu Peng), Feb 21, 2023.
35. Narges Mahyar. Human-Centered Computing – Virginia Tech, Department of Computer Science, (Host: Doug Bowman), Jan 31, 2023.
34. Narges Mahyar. Schloss Dagstuhl Seminar – Visual Text Analytics, May 8–13, 2022.
33. Narges Mahyar. Equity in Civic Decision-Making – University College London, Interaction Centre (UCLIC), (Host: Duncan Brumby) Dec 14, 2022.
32. Narges Mahyar. Equity in Civic Decision-Making – City University London, School of Science and Technology, (Host: Jason Dykes), Dec 8, 2022.
31. Narges Mahyar. Equity in Civic Decision-Making – SIGCHI Paris, (Host: Petra Isen-berg), Dec 6, 2022.
30. Narges Mahyar. Equity in Civic Decision-Making – UNC Chapel Hill, School of Information & Library Science (SILS), (Host: David Gotz), Nov 14, 2022.
29. Narges Mahyar. Social Computing Tools – Tableau Research, (Host: Michael A Correll), Aug 4, 2022.



28. Narges Mahyar. Social Computing Tools – Northwestern University, Technology & Social Behavior (TSB) Speaker Series, (Host: Nicholas Diakopoulos), Apr 21, 2022.
27. Narges Mahyar. Social Computing Tools – Tufts University, Computer Science Colloquium Series, (Hosts: Raja Sambasivan and Liping Liu), Apr 7, 2022.
26. Narges Mahyar. Connecting Science and Art – Engineers and Scientists Acting Locally (ESAL), **Invited panelist**, May 19, 2022.
25. Narges Mahyar. Equitable Visualization Tools – UCLAB Potsdam, (Host: Marian Dörk), Nov 23, 2021.
24. Narges Mahyar. Equitable Visualization Tools – University of Colorado Boulder, ATLAS Colloquium Series, (Host: Ellen Yi-Luen Do), Apr 27, 2021.
23. Narges Mahyar. Reducing Inequality in Participation – UMass Amherst, Nov 23, 2021.
22. Narges Mahyar. Revisiting W.E.B. Du Bois' Visualizations – UMass Amherst, Oct 2020.
21. Narges Mahyar. Social Computing for Participation – University of Toronto, Department of Computer Science, (Host: Fanny Chevalier), Oct 27, 2021.
20. Narges Mahyar. Social Computing for Participation – Ontario Tech University, Department of Computer Science, (Host: Chris Collins), Oct 25, 2021.
19. Narges Mahyar. Community-Centered Urban Design – Erv Zube Lecture Series 2019, Landscape Architecture and Regional Planning, UMass Amherst, Sep 3, 2019.
18. Narges Mahyar. Social Computing for Innovation – Data Science Research Symposium, UMass Amherst, Apr 24, 2019.
17. Narges Mahyar. Social Computing for Innovation – Outstanding Achievement & Advocacy Awards Banquet, UMass Amherst, Apr 5, 2019.
16. Narges Mahyar. Enhancing Public Engagement – UMass Amherst, CS Women Lunch Series, UMass Amherst, Feb 20, 2019.
15. Narges Mahyar. Social Computing Colloquium – WPI, Computer Science Colloquium, (Host: Lane Harrison), Jan 11, 2019.
14. Narges Mahyar. Social Computing Colloquium – New Jersey Institute of Technology (NJIT), Department of Computer Science, (Host: Michael Halper), Feb 20, 2018.
13. Narges Mahyar. Social Computing Colloquium – Virginia Tech, Department of Computer Science, (Host: Doug Bowman), Feb 12, 2018.
12. Narges Mahyar. Social Computing Colloquium – San Jose State, Department of Computer Science, (Host: Sami Khuri), Feb 6, 2018.
11. Narges Mahyar. Social Computing Colloquium – Univ. of Illinois Chicago, (Host: Liz Marai), Feb 1, 2018.
10. Narges Mahyar. Innovations in Participatory Democracy Conference 2018, **Invited Speaker** – Phoenix, AZ, Mar 8, 2018.
9. Narges Mahyar. Technologies for Civic Engagement – UC San Diego, 2017.
8. Narges Mahyar. Collective Innovation – Game Changers Series: Collaboratory for Downtown Innovation (CDI), San Diego, Jan 25, 2017.
7. Narges Mahyar. Visual Analytics Tools – Autodesk Research, (Host: Michael Glueck), May 17, 2016.
6. Narges Mahyar. Visual Analytics Tools – York University, May 16, 2016.
5. Narges Mahyar. Visual Analytics Tools – Microsoft Research, (Host: Danyel Fisher), Redmond, WA, Feb 18, 2016.
4. Narges Mahyar. Interactive Surfaces – Simon Fraser University, SIAT Research Colloquium series, (Host: Halil Erhan) Mar 16, 2016.



3. Narges Mahyar. From Desktops to Tabletops – University of Washington Bothell, Feb 8, 2016.
2. Narges Mahyar. Technology for Design – Boston University, (Host: Edward Boches), Jan 27, 2016.
1. Narges Mahyar. Supporting Team Communication and Coordination in Visual Analytics – University of British Columbia, (Host: Kellogg Booth) Apr 24, 2014.

## SCIENTIFIC COMMUNITY SERVICE

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### Steering/Executive Committee

- 2025 - IEEE VGTC Best Dissertation Award Committee
- 2022–2026 - IEEE VIS Executive Committee (VEC)
- 2015–2016 – HCI@UBC, Monthly Seminar Series, Steering Committee, UBC

### Organizing Committee

- 2026 – Poster Co-Chair, IEEE VIS 2026
- 2025 – Co-Organizer, Panel on "IEEE VIS Reviewing — On a Path to Self-Destruction?", IEEE VIS 2025
- 2024 – Co-Organizer, Panel on "VIS Conference Futures: Community Opinions on Recent Experiences, Challenges, and Opportunities for Hybrid Event Formats", IEEE VIS 2024
- 2023 – Workshop Co-Chair, IEEE VIS 2023
- 2022 – Visualization for Social Good Workshop (Vis4Good), IEEE VIS 2022
- 2021 – Paper Co-Chair, ACM Creativity and Cognition Conference (C&C)
- 2019 – Fast Forward Co-Chair, IEEE VIS 2019
- 2018 – Organizing Committee, DTSHPS Workshop, VL/HCC 2018
- 2016 – Organizing Committee, BELIV Workshop, IEEE VIS 2016

### Grant Panelist

- 2019 – National Science Foundation (NSF)

### Program Committee Member

- 2026 - EuroVis 2026, Full Papers
- 2025 - Input Visualization Workshop, IEEE VIS 2025
- 2025 – EuroVis 2025, Posters Track
- 2025 – CHI 2025, AC member (Visualization)
- 2024 – CHI 2024, AC member (Visualization)
- 2024 – EuroVis 2024, Posters Track
- 2024 – IEEE VIS 2024, Full Papers
- 2023 – IEEE VIS 2023, Full Papers
- 2022 – IEEE VIS 2022, Full Papers
- 2022 – CHI 2022, AC member (Visualization)
- 2021 – CHI 2020, AC member (Understanding People)
- 2020 – IEEE VIS 2019, Short Papers
- 2019 – CHI 2020, AC member (Understanding People)
- 2018 – CHI 2018, Late Breaking Work (LBW)
- 2018 & 2019 – ACM Creativity and Cognition Conference (CC)
- 2018 – BELIV Workshop, IEEE VIS 2018
- 2016 – Interactive Surfaces and Spaces (ISS)
- 2016 – Graphics Interface (GI)
- 2015 – DEXIS Workshop, ITS 2015



### **Session Chair**

- IEEE VIS 2025 – The VIS in GenAI Session
- ACM CHI 2025 – Interactive Data Visualization Session
- IEEE VIS 2024 – General Public Session
- IEEE EuroVis 2022 – General Public Session
- ACM DIS 2019 – Design Methods Session
- ACM GI 2016 – Input & Interaction Session

### **Reviewer**

- 2014–2020 – IEEE Visual Analytics Science and Technology (VAST)
- 2015–2023, 2025 – ACM CHI
- 2016–2018, 2020 – CSCW
- 2017 – Human-Computer Interaction Journal
- 2014–2019 – IEEE Computer Graphics and Applications (CG&A)
- 2018 – ISS
- 2017 – Graphics Interface (GI)
- 2015 – Visualization Viewpoint
- 2015–2019 – IEEE InfoVis
- 2015 – EuroVis (Eurographics/IEEE VGTC Symposium)
- 2014 – GRAND (Graphics, Animation and New Media)

### **ACADEMIC SOCIETY MEMBERSHIPS**

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- Association for Computing Machinery (ACM), 2016 -present
- Institute of Electrical and Electronics Engineers (IEEE), 2021 -present

### **UNIVERSITY SERVICE**

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- School of Science & Technology Board of Studies, Board Member, City St George's, University of London, 2025 - 2026
- Annual Faculty Report (AFR), Committee Member, UMass Amherst, 2025 - 2026
- Graduate Student Award, Committee Member, UMass Amherst, 2022
- Distinguished & Rising Star Seminar Series, Committee Member, UMass Amherst, 2022
- Graduate Student Program, Committee Member, UMass Amherst, 2021
- Faculty & Staff Award, Committee Member, UMass Amherst, 2021
- ADVANCED Faculty Fellow, UMass Amherst, 2020
- Informatics Faculty Recruiting Search Committee Member, UMass Amherst, 2018 & 2019
- Executive Committee Member (Elected Position), UMass Amherst, 2019
- PhD Admission Committee Member, UMass Amherst, 2018

### **TEACHING EXPERIENCE**

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#### **Course Developer & Instructor**

- Spring 2026 – Computer Networks, BSc, City St George's, University of London.
- Spring 2026 – Human-Centered Visualization, PhD, EPSRC Centre for Doctoral Training in Diversity in Data Visualization (DIVERSE CDT), City St George's, University of London.
- Spring 2026 – Advanced Methods in HCI (COMPSCI 625), PhD/MSc, UMass Amherst.
- Spring 2023 – Advanced Methods in HCI (COMPSCI 625), PhD/MSc, UMass Amherst.
- Fall 2022 – Introduction to HCI (COMPSCI 325), BSc, UMass Amherst.
- Spring 2021 – Advanced Methods in HCI (COMPSCI 690A), PhD/MSc, UMass Amherst.
- Fall 2020 – Introduction to HCI (COMPSCI 325), BSc, UMass Amherst.



- Spring 2020 – Computing for the Common Good (COMPSCI 692M), PhD/MSc, UMass Amherst.
- Fall 2019 – Introduction to HCI (COMPSCI 325), BSc, UMass Amherst.
- Spring 2019 – Advanced Methods in HCI (COMPSCI 690A), PhD/MSc, UMass Amherst.
- Fall 2018 – Digital Civics (COMPSCI 592C), PhD/MSc, UMass Amherst.

#### **Co-Instructor & Guest Lecturer**

- Fall 2017 – Civic Design (Cogs 160), Co-Instructor with Steven Dow, UCSD.
- Spring 2016 – Graduate Research Colloquium (IAT 805), Guest Lecturer, School of Arts and Interactive Technology, Simon Fraser University.
- Summer 2014 – Human-Computer Interaction (SENG 310), Guest Lecturer, University of Victoria (UVic).
- Spring 2014 – Advanced Methods for Human-Computer Interaction (CSC 578C), Guest Lecturer, University of Victoria (UVic).
- Summer 2013 – Human-Computer Interaction (SENG 310), Guest Lecturer, University of Victoria (UVic).
- Fall 2008 – Object-Oriented Software Development (SENG 330), Guest Lecturer, University of Victoria (UVic).

### **SUPERVISION & MENTORSHIP**

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*Note: I have created a mentoring program to actively involve undergraduate and under-represented minority students in research. **To date, I have mentored 66 students** (35/66 women) including 41 undergraduate students (25/40 women) as part of my mentoring program. Many of my undergraduate mentees co-authored publications at top HCI and visualization venues with myself and my Ph.D. students (see citations).*

#### **Postdoctoral Supervision**

2. Swapna Joshi, NSF CI Fellow, , UMass Amherst, May 2022–May 2023.
1. Zhiqiu Jiang, , UMass Amherst, Fall 2021–August 2022.

#### **Ph.D. Student Supervision**

8. Amit Sarker, UMass Amherst, Fall 2022–Fall 2025.  
\*Co-advised with Ali Sarvghad.
7. Mashrur Rashik, UMass Amherst, Fall 2021–Aug 2025.  
\*Now Research Scientist at Meta. Co-advised with Ali Sarvghad.
6. Mahmood Jasim, UMass Amherst, Fall 2018–Aug 2023.  
\*Now Tenure Track Faculty Member at Louisiana State University.
5. Alyx Burns, UMass Amherst, Fall 2019–Fall 2022.  
\*Now Tenure Track Faculty Member at Mount Holyoke College.
4. Tamanna Motahar, UMass Amherst, Fall 2019–Fall 2020.  
\*Now Tenure Track Faculty Member at University of Louisiana at Lafayette.
3. Pooya Khaloo, UMass Amherst, Fall 2018–Fall 2019.  
\*Now Senior Autonomous Vehicle Simulation Engineer at NVIDIA.
2. Sarmad Mehrbod, UBC, Civil Engineering, 2014–2016.  
\*Co-advised with Sheryl Staub-French.
1. Kelly J. Burke, UBC, iSchool, Summer 2016.  
\*Co-advised with Kellogg Booth.



### **Ph.D. Thesis Committee**

4. Zack While, UMass Amherst, 2025.  
\*Now Assistant Professor at Youngstown State University
3. Uzma Haque Syeda, Northeastern University, 2025.
2. Abe Handler, UMass Amherst, 2021.  
\*Now Assistant Professor at UC Boulder.
1. Hee-Tae Jung, UMass Amherst, 2019.  
\*Now Assistant Professor at IUPUI.

### **Synthesis Project Supervision**

2. Tu Vu, PhD Computer Science,, UMass Amherst, Fall 2019.
1. Youngwoo Kim, PhD Computer Science, , UMass Amherst, Fall 2019.

### **Graduate Research Assistant Supervision**

9. Lekha Harishchandra, UMass Amherst, Spring 2023.
8. Nishtha Agrawal, NYU, Fall 2023.
7. Shilpa Sweth, UMass Amherst, Summer 2022–Fall 2023.
6. Haoru Song, UMass Amherst, Summer 2022–Fall 2023.
5. Julian Killingback, UMass Amherst, Fall 2020–Fall 2021.
4. Somin Wadhwa, UMass Amherst, Fall 2020–Fall 2021.  
newline \*Now Ph.D. Student at Northeastern University.
3. Yueying Liu, UMass Amherst, Fall 2020–Fall 2021.
2. Weichen Liu, UCSD, Fall 2016–June 2017.
1. Dangyi Liu, UCSD, Fall 2016–June 2017.

### **Undergraduate Supervision (Honors Thesis)**

6. Abigail Elliott, , UMass Amherst, Fall 2021–Fall 2022.
5. Preston Yee, , UMass Amherst, Fall 2020–Fall 2021.
4. Thai On, , UMass Amherst, Fall 2020–Fall 2022. [J12, W10]
3. Matt Rossman, , UMass Amherst, 2020.
2. Emily Goroza, , UMass Amherst, 2019.
1. Anjali Devakumar, , UMass Amherst, 2019.

### **Undergraduate Supervision (Research Assistants)**

41. Mahia Rahman, Harvard University, Sept 2023–May 2024.
40. Yaojia Lu, Holyoke College, Spring 2023.
39. Luke Geel, UMass Amherst, Fall 2022–2023.
38. Saiyyam Kochar, UMass Amherst, Fall 2022–Fall 2023.
37. Niya Sharoff, UMass Amherst, Fall 2022–2023.
36. Nikhil Gautam, UMass Amherst, Fall 2022–2023.
35. Mumtaz Fatima, UMass Amherst, Summer 2022–2023.
34. Hallie Liu, UMass Amherst, Fall 2022–2023.
33. Angelika Ladia, UMass Amherst, Fall 2022–2023.
32. Maanas Pari, UMass Amherst, Fall 2022–2023.
31. Dylan Landman, UMass Amherst, Fall 2022.



30. Arshnoor Chadha, UMass Amherst, Fall 2022.
29. Rachel Gupta, UMass Amherst, Fall 2022–2023.
28. Jason Jermany, UMass Amherst, Fall 2022–2023.
27. Jason Cheung, UMass Amherst, Fall 2022–Fall 2023.
26. Ria Chawla, UMass Amherst, Fall 2020–Fall 2023. [J12, J10, C15]
25. Christiana Lee, UMass Amherst, Fall 2020–Fall 2022. [J12, C15, W10]
24. Nikhil Rajkumar, UMass Amherst, Spring–Summer 2022.
23. Emily Chen, UMass Amherst, Spring–Summer 2022.
22. Tiffany Wang, UMass Amherst, Summer 2021–Summer 2022.
21. Yasmeen Mekky, UMass Amherst, Summer 2021–Summer 2022.
20. Rolando Franqui Nadal, UMass Amherst, Fall 2020–2021. [J10]
19. Lucy Cousins, UMass Amherst, Spring 2020.
18. Andrew Cunningham, UMass Amherst, Summer 2020. [A8]
17. Arushi Ahmed, UMass Amherst, Summer 2019.
16. Nancy Zheng, UCSD, Summer 2017–Spring 2018. [C7]
15. Diana Nguyen, UCSD, Winter–Spring 2018. [C7]
14. Maggie Chan, UCSD, Winter–Spring 2018. [C7]
13. Reggie Wu, UCSD, Summer 2017. [C6]
12. Michelle Ng, Harvard, Summer 2017. [C6]
11. Michael James, CMU, Summer 2017. [C6]
10. Lauren Liu, UCSD, Fall 2016–June 2017.
9. Joanne Cho, UCSD, Fall 2016–June 2017.
8. Sanika Moharana, UCSD, Winter–Summer 2017.
7. Alejandro Panduro, UCSD, Fall 2016–Summer 2017.
6. Eric Richards, UCSD, Fall 2016–June 2017.
5. Yabo Shi, UCSD, Winter–Spring 2018.
4. Andres Baez, UCSD, Fall 2017–Spring 2018.
3. Siyi Meng, UBC, Summer 2015. [C5, A2]
2. Jialiang Xiang, UBC, Summer 2015. [C5, A2]
1. Tyler Weeres, UVic, Summer 2010. [C3, W3]

## SELECTED MEDIA COVERAGE

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- *Communicating Climate Change*, Radcliffe Moments: Past, Present and Future, Harvard Radcliffe, 2024.
- *Know Your Audience: Why Data Communication Needs to Pay Attention to Novice Users*, UMass Amherst News, July 5, 2023.
- *CommunityClick Deployment in Town of Amherst*, Daily Hampshire Gazette, Dec 1, 2021.
- *RisingEMOTIONS was Selected for the Internationally Acclaimed CODAaward*, East Boston Massachusetts Newspaper, June 30, 2020.
- *RisingEMOTIONS in East Boston*, Friends of the Mary Ellen Welch Greenway, Dec 19, 2019.



- *CommunityCrit Gives Community Members a Newfound Voice*, UC San Diego Design Lab News, April 28, 2018.
- *Design Lab Heads Downtown to Present New Strategies and Program to Take on Society's Most Daunting Challenges*, UC San Diego Design Lab News, April 3, 2018.
- *Design Lab Launches City-Wide Civic Design Challenge*, UC San Diego Design Lab News, April 3, 2018.
- *Snapshot of Current Trends in Visualization*, IEEE Computer Society, March 2015.
- *Introduction to the VAST 2010 Special Issue of Best Papers of Visual Analytics Science and Technology (VAST) 2010*, Sage Journals, April 27, 2012.

## INDUSTRY EXPERIENCE

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**2004–2005.** Leader of the E-banking Team and Leader of the E-payment Research Group, ITC, Tehran, Iran.

Researched and proposed solutions to implement E-banking and E-payment services over the national network.

**2003–2004.** IT Expert, IT Services Research Group, ITC, Tehran, Iran.

Researched technologies to transmit video using ITC infrastructure and contributed to a successful Video on Demand deployment.

**2002–2003.** Network Management Analyst, ITC, Tehran, Iran.

Investigated and proposed hardware/software solutions to improve network performance.

**2000–2002.** Network Infrastructure Designer, Network Research Group, ITC, Tehran, Iran.

Redesigned Iran's provincial network systems to support scale-up from 250,000 to 43 million users.

## COMMUNITY VOLUNTEERING & OUTREACH

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**Summer 2022.** Co-Instructor, Internet Course for Seniors, Amherst, MA.

Co-created and co-taught a 5-week course on web literacy for seniors in collaboration with the Amherst Senior Center.

**2021–Present.** Led the deployment of CommunityClick Virtual in Amherst, MA public meetings.

Enabled real-time, accessible community feedback during virtual civic meetings. Adopted town-wide since 2022.

**2020–2021.** Directed Campus-Wide COVID-19 Survey Initiative, UMass Amherst.

Institutionalized a data-driven survey to assess campus well-being and support strategic planning.

**Fall 2020.** RisingEMOTIONS Climate Installation, East Boston Public Library.

Designed and exhibited a public art installation highlighting local climate risks via sea-level rise.

**Spring 2019.** Deployed CommunityClick in a Town Hall Meeting, Amherst, MA.

**Sept 2018.** Judge and Mentor, MIT Design-a-Hack-a-Thon.

**2016–2017.** Co-Instructor and Mentor, Design for San Diego (D4SD), UCSD.

**2016–2018.** Mentor, Women and URM Students, UCSD Design Lab.

**2015–2016.** Member, Women in Computer Science (FOWCS), UBC.

**Summer 2015.** Volunteer, UBC Girls Learning Code Summer Camps.



**2008–2014.** Volunteer, UVic CS Department, events and outreach (IdeaFest 2013, so-cials).

**2008–2011.** Instructor, Internet Course for Seniors, UVic.

**2008–2011.** Member, Women in Engineering and Computer Science, UVic.

## FINE ARTS BACKGROUND & EDUCATION

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*Note: My background in fine arts enhances my work in HCI, visualization, and design education. I continually draw on the insights about design, aesthetics, and the creative process that came from years of studying Fine Arts and creating artwork. My interdisciplinary training has enabled me to mentor students across disciplines especially with design background and help them to apply insights and contribute valuable new perspectives to HCI and Visualization research areas.*

**2000–2004.** Modern Art Principles, Gholamhossein Nami's Academy, Tehran, Iran.

**1998–2000.** Modern Art Techniques, Mahmood Samandaryan's Academy, Tehran, Iran.

**1994–1998.** Watercolor Painting, Atashzad Academy of Art, Tehran, Iran.

**1991–1994.** Drawing and Painting, Mojgan Mousapour, Isfahan, Iran.

## ART INSTALLATIONS & EXHIBITIONS

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**2020.** RisingEMOTIONS — Public Art Installation, East Boston Library.

**2010.** Engineering's Got Talent Exhibition, University of Victoria.

**2010.** Group Exhibition, Cost Collective Gallery, Victoria.

**2005.** Solo Exhibition, Museum of Contemporary Art, Isfahan.

**2004.** Group Exhibition, Atashzad Art Gallery, Tehran.

**2004.** Group Exhibition, Science & Technology University, Tehran.

**2003.** Group Exhibition, Atashzad Art Gallery, Tehran.

**2002.** Solo & Group Exhibitions, Daryabeygi & Atashzad Galleries, Tehran.

**2001.** Group Exhibition, Haft Peykar Gallery, Tehran.

**2000.** Group Exhibition, Kosar Gallery, Isfahan.

**1996.** Group Exhibition, Engineering Students, Tehran.

## ART & CREATIVE ACTIVITY AWARDS

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**2020.** CODAAward Top 100 Global Design Projects — RisingEMOTIONS.

**2010.** Engineering Got Talent (Fine Art Exhibition), University of Victoria.

**1998.** Teaching Award, Drawing Principles, Azad University of Tehran.

**1996.** 2nd Place, National Calligraphy Competition, Iran.

**1995.** 3rd Place, National Calligraphy Competition, Iran.