

Narges Mahyar

Assistant Professor

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RESEARCH INTERESTS

Human-Computer Interaction (HCI), Information Visualization, Social Computing, Crowdsourcing, Digital Civics, and Design Thinking.

EDUCATION

- 2014 **PhD in Computer Science**, University of Victoria, Victoria, BC.
2008 **Master of Information Technology**, University of Malaya, KL, Malaysia.
1998 **Bachelor of Electrical Engineering**, Tehran Azad University, Tehran, Iran.

ACADEMIC AWARDS & HONORS

- 2020 **Best Paper Award**, ACM CSCW
2017 **Outstanding Paper Award**, Council of Educators in Landscape Architecture
2016 **Honorable Mention Award**, Interactive Surfaces and Spaces (*ISS*)
2016 **Best Poster Honorable Mention**, Graphics Interface (*GI*)
2014 **Best Paper Award**, IEEE Visual Analytics Science and Technology (*VAST*)
2014 **Best Research Note Honorable Mention**, Graphics, Animation and New Media (*GRAND*)
2010 **Best 4 papers**, IEEE Visual Analytics Science and Technology (*VAST*)

RESEARCH POSITIONS

- 2018-present **Assistant Professor**, University of Massachusetts Amherst, Amherst, MA.
2016-2018 **Design Lab Fellow and Postdoctoral Researcher**, UCSD, San Diego, CA.
Advisor: Steven P. Dow
2014-2016 **Postdoctoral Fellow**, University of British Columbia, Vancouver, BC.
Advisors: Kellogg Booth, Cynthia Girling, and Ronald Kellett
2008-2014 **Research Assistant**, University of Victoria, Victoria, BC, Canada.
Advisor: Melanie Tory
Summer 2009 **Research Intern**, SAP, Vancouver, BC, Canada,
Advisor: Michael McAllister
2006-2008 **Research Assistant**, University of Malaya, KL, Malaysia.
Advisor: Wai (Albert) Yeap

GRANT SUPPORTS

National Science Foundation (NSF), SATC: CORE: Medium: “Principles and Algorithms for Visual Data Exploration Under Differential Privacy”, (Co-PI)
Award Period: 7/1/20 - 6/30/23,
\$1,191,106

UMass ADVANCE Collaborative Research Seed Grants, “MAPPING INSTABILITY: The Effects of the Pandemic on the Civic Life of a Small Town.” (Co-PI)

Award Period: 11/11/20 - 5/11/21,

\$15,000

PUBLICATIONS

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. Acceptance rates are reported on conference proceedings.

Refereed Journal & Conference Publications

[15] 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”, *The 23rd ACM Conference on Computer-Supported Cooperative Work and Social Computing*, 30 pages, 2020, to appear.

 **Best Paper Award**

[14] Hee-Tae Jung, Taiwoo Park, **Narges Mahyar**, Sungji Park, Taekyeong Rye, Yangsoo Kim, Sunghoon Ivan Lee, “Rehabilitation Games in Real-World Clinical Settings: Practices, Challenges, and Opportunities”, *ACM Transactions on Computer-Human Interaction Journal (ACM TOCHI, will be presented at ACM CHI 2021)*, vol. 27, no.6, pp. 1-43, 2020.

[13] **Narges Mahyar**, Diana V. Nguyen, Maggie Chan, Jiayi Zheng, 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.

[12] Sarmad Mehrbod, Sheryl Staub-French, **Narges Mahyar**, 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.

[11] Sarmad Mehrbod, Sheryl Staub-French, **Narges Mahyar**, Melanie Tory, “Characterizing Interactions with BIM Tools in Building Design Coordination Meetings”, *Journal of Automation in Construction*, vol. 98, pp. 195-213, 2019.

[10] **Narges Mahyar**, Michael James, Michelle Ng, Reggie Wu, 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.

[9] Girling, Cynthia, Ronald W. Kellett, Kellogg S. Booth, **Narges Mahyar**, Kelly J. Burke, 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, 2017]

 **Outstanding Paper Award**

[8] Ali Sarvghad, Melanie Tory, and **Narges Mahyar**, “Visualizing Dimension Coverage to Support Exploratory Analysis”, *IEEE Transactions on Visualization and Computer Graphics*, 10 pages, vol. 23, no.1, pp.21-30. 2016.

[7] **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.

 **Honorable Mention**

[6] 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.

[5] **Narges Mahyar** and Melanie Tory, “Supporting Communication and Coordination in Collaborative Sensemaking”, *IEEE Transactions on Visualization and Computer Graphics*, pp. 1633-1642, 2014. [Best Paper Award, VAST 2014]

 **Best Paper Award**

[4] **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.

[3] **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]

[2] **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**

[1] 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

[9] Alyxander Burns, Cinxy Cindy Xiong, Steven Franconeri, Alberto Cairo, **Narges Mahyar**, “How to evaluate data visualizations across different levels of understanding”, BELIV 2020: *Proceedings of the Eighth IEEE Workshop on Evaluation and Beyond-Methodological Approaches for Visualization*, in conjunction with IEEE VIS 2020, 10 pages, 2020, to appear.

[8] 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.

[7] **Narges Mahyar**, Weichen Liu, Dangyi Liu, Steven P. Dow, Enabling Crowdsourced Visualizations to Support Large-Scale Civic Engagement, *Workshop on Crowd-Civic Systems*, CSCW 2017, 5 pages, 2017.

[6] **Narges Mahyar**, Kellogg S. Booth, Cynthia Girling, and Ronald Kellett, “Just Scratching the Surface, the Long Road to Effective Cross-Display Interaction”, *Cross-Surface ’16 workshop*, in conjunction with ACM ISS’16, 7 pages, 2016.

[5] **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.

[4] Ronald Kellett, Kellogg Booth, **Narges Mahyar**, “Collaboration Technology for Stakeholder Engagement in Urban Planning”, *Information Technology & City Life Workshop*, CSCW 15, March 14-16, 2 pages, 2015.

[3] **Narges Mahyar**, Ali Sarvghad, Melanie Tory and Tyler Weeres “CoSpaces: Workspaces to Support Co-located Collaborative Visual Analytics,” *DEXIS 2011*, 4 pages, Nov 2011.

[2] **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.

[1] 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

[8] 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, to appear.

[7] 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.

[6] Tamanna Motahar, Mahmood Jasim, Syed Ishtiaque Ahmed, **Narges Mahyar**, “Exploring How International Graduate Students in the US Seek Support”, *In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems Extended Abstract*, PP. 1-8, CHI, 2020.

[5] Mahmood Jasim, Ali Sarvghad, Enamul Hoque, **Narges Mahyar**, “Towards Understanding Desiderata for Large-Scale Civic Input Analysis”, In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems Extended Abstract, pp.1-8, CHI, 2020.

[4] 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.

[3] **Narges Mahyar**, Weichen Liu, Sijia Xiao, Jacob T. Browne, Ming Yang, Steven P. Dow, “ConsensusUs: Visualizing Points of Disagreement for Multi-Criteria Collaborative Decision Making”, *CSCW 2017*, demonstration, 4 pages, 2017.

[2] **Narges Mahyar**, Siyi Meng, Jialiang Xiang, Kellogg S. Booth, Cynthia Girling, and Ronald Kellett, “A Multi-Display Environment for Community Planning”, *Graphics Interface*, 2 pages, Poster, 2016.

 **Honorable Mention**

[1] **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.

 **Honorable Mention**

Magazines, Commentary Papers & Doctoral Symposium

Iman Deznabi, Tamanna Motahar, Ali Sarvghad, Madelina Fiterau, **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*, COVID-19 Commentary, 13 pages, 2020, to appear.

Narges Mahyar, Mahmood Jasim, and Ali Sarvghad, “Designing Technology for Sociotechnical Problems: Challenges & Considerations, *IEEE Computer Graphics and Applications*”, (Volume: 40, Issue: 6), pp. 76-87, 2020. **[Invited Article]**

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.

Narges Mahyar, “Supporting Note Taking in Co-located Collaborative Visual Analytics on Large Interactive Surfaces”, Part of the Doctoral Colloquium, *ITS 11 ACM International Conference on Interactive Tabletops and Surfaces*, 4 pages, Nov 2011.

Dissertation & Thesis

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

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

INVITED TALKS

- 2019 **University of Toronto**, Department of Computer Science.
Social Computing and Visualization for Democratizing Public Participation
- 2019 **Ontario Tech University**, Department of Computer Science.
Social Computing and Visualization for Democratizing Public Participation
- 2019 **Erv Zube Lecture Series 2019**, Landscape Architecture and Regional Planning, UMass Amherst
Community-Centered Urban Design at Scale
- 2019 **Outstanding Achievement & Advocacy Awards Banquet**, UMass Amherst
Social Computing and Visualization to Increase Participation and Collective Innovation
- 2019 **CS Women Lunch Series**, UMass Amherst
Social Computing to Enhance Public Engagement in Urban Design at Scale
- 2019 **Data Science Research Symposium**, UMass Amherst
Social Computing and Visualization to Increase Participation and Collective Innovation
- 2019 **WPI**, Computer Science Colloquium.
Social Computing to Enhance Public Engagement in Urban Design at Scale
- 2018 **UMass Amherst**, College of Information and Computer Science.
Social Computing to Enhance Public Engagement in Urban Design at Scale
- 2018 **New Jersey Institute of Technology**, Department of Computer Science.
Social Computing to Enhance Public Engagement in Urban Design at Scale
- 2018 **Virginia Tech**, Department of Computer Science.
Social Computing to Enhance Public Engagement in Urban Design at Scale
- 2018 **San Jose State University**, Department of Computer Science.
Social Computing to Enhance Public Engagement in Urban Design at Scale
- 2018 **Innovations in Participatory Democracy Conference 2018**, Phoenix, AZ.
Social Computing to Improve Public Engagement in Urban Planning
- 2018 **University of Illinois at Chicago**, Department of Computer Science. Social Computing to Enrich and Scale Public Engagement
- 2017 **Changemakers Day**, UC San Diego, CA.
Technologies for Increasing Public Engagement in Civic Issues
- 2017 **Collaboratory for Downtown Innovation (CDI)**, San Diego, CA.
Collective Innovation for Business and Civics

- 2016 **Autodesk Research**, Toronto, ON.
Designing Collaborative Visual Analytics Tools: From Supporting Experts to Engaging the Public
- 2016 **York University**, Toronto, ON.
Designing Collaborative Visual Analytics Tools: From Supporting Experts to Engaging the Public
- 2016 **Simon Fraser University**, SIAT, Vancouver. BC.
Large Interactive Surfaces for Collaboratively Exploring and Driving Meaning from Complex Data
- 2016 **Microsoft Research**, Redmond, WA.
Designing Collaborative Visual Analytics Tools: From Supporting Experts to Engaging the Public
- 2016 **University Washington Bothell**, Bothell, WA.
From Desktops to Tabletops: Opportunities and Challenges
- 2016 **Boston University**, Boston, MA.
Technology for Design: A Road Map
- 2014 **University of British Columbia**, Vancouver, BC.
Supporting Team Communication and Coordination in Visual Analytics

PROFESSIONAL ACTIVITIES

Organizing Committee

- 2021 Paper Co-Chair, ACM Creativity and Cognition Conference (CC)
- 2019 Fast Forward Co-Chair, IEEE VIS 2019
- 2018 Organizing Committee, DTSHPS 2018 (Designing Technologies to Support Human Problem Solving), in conjunction with VL/HCC 2018
- 2016 Organizing Committee, BELIV (*Beyond Time and Errors: Novel Evaluation Methods for Visualization*) 2016, in conjunction with IEEE VIS 2016
- 2009 SAP Workshop, one day workshop at SAP to collectively brainstorm design ideas for a collaborative visual analytics tool (**CoSpaces**) with a large group of designers, developers and project managers.

Program Committee Member

- 2020 IEEE VIS 2019, Short Papers
- 2019 CHI 2020, AC member (understanding people)
- 2018 CHI 2018 Late Breaking Work (LBW) 2018
- 2018 & 2019 ACM Creativity and Cognition Conference (CC)
- 2018 BELIV (*Beyond Time and Errors: Novel Evaluation Methods for Visualization*), in conjunction with IEEE VIS 2018
- 2016 Interactive Surfaces and Spaces (ISS), 2016
- 2016 Graphics Interface (GI), 2016
- 2015 DEXIS 2015, Workshop on Data Exploration for Interactive Surfaces, in conjunction with Interactive Tabletops and Surfaces (ITS), 2015
- 2015-2016 Steering Committee, HCI@UBC, Monthly Seminar Series, UBC

Reviewer

2014-2020	IEEE Visual Analytics Science and Technology (<i>VAST</i>)
2015-2021	ACM Human Factors in Computing Systems (<i>CHI</i>)
2016-2018, 2020	Computer-Supported Cooperative Work and Social Computing (<i>CSCW</i>)
2017	Human Computer Interaction Journal
2014-2019	IEEE Computer Graphics and Applications Journal
2018	Interactive Surfaces and Spaces (<i>ISS</i>)
2017	Graphics Interface (<i>GI</i>)
2015	Visualization Viewpoint
2015-2019	IEEE Information Visualization Journal (<i>InfoVis</i>)
2015	EuroVis (<i>Eurographics/ IEEE VGTC Symposium on Visualization</i>)
2014	Graphics, Animation and New Media (<i>GRAND</i>)

Internal Service

2018 & 2019	Informatics faculty recruiting search committee
2018	PhD admission committee
2019	Executive committee
2020	ADVANCED faculty fellow

TEACHING EXPERIENCE

Instructor

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

Co-Instructor & Guest Lecturer

Fall 2017	Civic Design (Cogs 160) along with Prof. Steven Dow, UC San Diego.
Spring 2016	Graduate Research Colloquium (<i>IAT 805</i>), School of Arts and Interactive Technology, Simon Fraser University.
Summer 2014	Human-Computer Interaction (<i>SENG 310</i>), University of Victoria.
Spring 2014	Advanced Methods for Human-Computer Interaction (<i>CSC 578C</i>), University of Victoria.
Summer 2013	Human-Computer Interaction (<i>SENG 310</i>), University of Victoria
Fall 2008	Object-Oriented Software Development (<i>SENG 330</i>), UVic.

Teaching Assistant

Spring 2014	Human-Computer Interaction (<i>SENG 310</i>), University of Victoria.
Spring 2014	Advanced Methods for Human-Computer Interaction (<i>CSC 578</i>), UVic.
Summer 2013	Human-Computer Interaction (<i>SENG 310</i>), University of Victoria.
Fall 2013	Research Skills (<i>CSC 595</i>), University of Victoria.

Fall 2012	Software Development Methods (<i>SENG 265</i>), University of Victoria.
Fall 2012	Fundamentals of Programming (<i>CSC 110</i>), University of Victoria.
Spring 2012	Computers & Information Processing (<i>CSC 105</i>), University of Victoria.
Spring 2011	Elementary Computing (<i>CSC 100</i>), University of Victoria.
Fall 2011	Elementary Computing (<i>CSC 100</i>), University of Victoria.
Spring 2009	Human-Computer Interaction (<i>SENG 310</i>), University of Victoria.

Consultant & Teaching Assistant Administrator

Summer 2011 & Spring 2013	Consultant: I helped undergraduate students with Java, C, HTML.
Fall 2012	Fundamentals of Programming (<i>CSC 110</i>), University of Victoria Acted as TA admin to assist instructors to design assignments, marking schemes and coordinated the markers.

SUPERVISION & MENTORSHIP

Current:	51- Mohammad Hadi Nezhad, PhD. Computer Science, UMass Amherst 50- Mahmood Jasim, PhD. Computer Science, UMass Amherst. 49- Alyx Burns, PhD. Computer Science, UMass Amherst. 48- Lucy Cousins, MS Student in GIS, UMass Amherst. 47- Prachi Modi, Undergraduate Student, UMass Amherst. 46- Rolando Franqui Nadal
Former @UMass:	45- Andrew Cunningham, BSc. Computer Science, UMass Amherst. 44- Tamanna Motahar, PhD. Computer Science, UMass Amherst. 43- Somn Wadhwa, MSc. Computer Science, UMass Amherst. 42- Tahseen Rahman, BSc. Computer Science, UMass Amherst. 41- Mackenzie Matscherz, BSc. Computer Science, UMass Amherst. 40- Matt Rossman, BSc. Computer Science, Honors Thesis Advisor. 39- Arushi Ahmed, BSc. Computer Science, UMass Amherst. 38- Nazanin Jafari, PhD. Computer Science, UMass Amherst. 37- Yueying Liu, MSc. Computer Science, UMass Amherst. 36- Emily Goroza, BSc. Computer Science, Honors Thesis Committee. 35- Anjali Devakumar, BCc. Computer Science, Honors Thesis Committee. 34- Pooya Khaloo, PhD. Computer Science, UMass Amherst.
Winter 2017	Mentored undergrad students, University of California San Diego. 33- Diana Nguyen, BSc. Cognitive Science, UCSD. 32- Alan Kuo, BSc. Computer Science, UCSD. 31- Chaolei Hua, BSc. Math and Computer Science, UCSD. 30- Maggie Chan, BSc. Cognitive Science, UCSD. 29- Yabo Shi, BSc. Cognitive Science, UCSD. 28- Judy Chun, BSc. Cognitive Science, UCSD.
Fall 2017	Mentored undergrad and grad students, University of California San Diego. 26- Vasudev Patel, MSc. Computer Science, UCSD. 25- Dingcheng Hu, BSc. Computer Science, UCSD. 24- Joshua Tjong, BSc. Cognitive Science, UCSD.

- Summer 2017 Mentored undergrad and grad students, University of California San Diego.
 23- Alejandro Panduro, BSc. Cognitive Science, UCSD.
 22- Sanika Moharana, BSc. Cognitive Science, UCSD.
 21- Nancy Zheng, BSc. Cognitive Science, UCSD.
 20- Reggie Wu, BSc. Computer Engineering, UCSD.
 19- Michael James, BSc. HCI, Drama, Media & Design, Carnegie Mellon University.
 18- Michelle Ng, BSc. Visual and Environmental Studies & Computer Science, Harvard University.
- Fall 2016- Mentored undergrad and grad students, University of California San Diego.
 Spring 2017 17- Joanne Cho, BSc. Cognitive Science, UCSD.
 16- Eric Richards, BSc. Cognitive Science, UCSD.
 15- Karen Ma, BSc. Cognitive Science, UCSD.
 14- Lauren Liu, BSc. Cognitive Science, UCSD.
 13- David Luu, BSc. Computer Engineering, UCSD.
 12- Weichen Liu, MSc. Computer Science, UCSD.
 11- Danyi Liu, MSc. Cognitive Science, UCSD.
- Summer 2016 Mentored a PhD candidate, University of British Columbia.
 10- Kelly J. Burke, PhD, iSchool, UBC.
- 2014-2016 Co-supervised a PhD candidate, University of British Columbia.
 9- Sarmad Mehrbod, PhD, Civil Engineering, UBC.
- Summer 2015 Co-supervised 4 undergraduate students, University of British Columbia.
 8- Siyi (Cathy) Meng, BSc. Computer Science, UBC.
 7- Jialiang Xiang, BSc. Computer Science, UBC.
 6- Austin Liu, BSc. Computer Science, UBC.
 5- Yunpiao (Withney) Bai, BSc. Computer Science, UBC.
- Fall 2013 Mentored two graduate students, University of Victoria.
 4- Leandro Collares, MSc. Computer Science, UVic.
 3- Wanda Boyer, MSc. Computer Science, UVic.
- Fall 2012 Co-supervised an undergrad student, University of Victoria.
 2- Anthony Bashi, BSc. Computer Science, UVic.
- Spring & Co-supervised an undergrad software developer, University of Victoria.
 Summer 2010 1- Tyler Weeres, BSc. Computer Science, UVic.

THESIS/DISSERTATION COMMITTEE

- 2020 Abe Handler, PhD, Computer Science, Committee.
- 2019 Hee-Tae Jung, PhD, Computer Science, Committee.
- 2020 Matt Rossman, BSc. Computer Science, Honors Thesis Advisor.
- 2019 Emily Goroza, BSc. Computer Science, Honors Thesis Committee.
- 2019 Anjali Devakumar, BSc. Computer Science, Honors Thesis Committee.

INDUSTRY EXPERIENCE

- 2004 - 2005 **Leader of the E-banking Team, Leader of 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, Member of IT Services Research Group**, ITC, Tehran, Iran. Researched technologies to transmit video using ITC infrastructure. I contributed to successful implementation of a Video on Demand service.
- 2002 - 2003 **Network Management Analyst**, ITC, Tehran, Iran. Researched hardware/software solutions to improve network performance.
- 2000 - 2002 **Network Infrastructure Designer**, Member of Network Research Group, ITC, Tehran, Iran. Redesigned network hardware and software for all of Iran's major provinces to support increased network traffic (from 250,000 to 43 million users).

COMMUNITY INVOLVEMENT

- 2015-2016 **Member of Women in Computer Science (FOWCS)**, University of British Columbia, BC, Canada. Developed HCI related curriculum for grade 10-12.
- Summer 2015 **Volunteer**, University of British Columbia, BC, Canada. Helped out Computer Science Department with Girls Learning Code (9-13 years) to host two summer camps. Coordinated and demoed our application 4 times during June and August.
- 2008-2014 **Volunteer**, University of Victoria, Victoria, BC, Canada. Organized many events including department of computer science first Big Data Pechakucha (IdeaFest 2013), and winter social events.
- 2008-2011 **Teacher and Member of the Executive Committee of Internet Course for Seniors**, University of Victoria, Computer Science Volunteer Program. Taught basic skills for navigating the Internet and using email.
- 2008-2011 **Member of Women in Engineering and Computer Science**, UVic.
- 2001-2005 **Co-chair, Women in development extra curriculum activities**, ITC, Tehran, Iran. Organized women in development extra curriculum fine arts, and sport activities.
- 1999-2000 **Founder of Creative Fine Arts Department**, Creative Children's Institute, Isfahan, Iran. Developed curriculum for a series of classes, managed a team of 4 instructors and taught creative fine arts to 5-12-year-old children.
- 1998-2000 **Co-founder of Creative Children's Institute**, Isfahan, Iran. Head of Technology Department. Developed course materials and taught introduction to electronics to 5-12 years old children.
- 1996-1998 **Fine Arts Instructor**, Azad University, Tehran, Iran. Taught fine arts principles to undergrad engineering students.

FINE ARTS BACKGROUND & EDUCATION

- 2000-2004 Studied Modern Art Principles, Techniques and History, Gholamhossein Nami's Art Academy, Tehran, Iran.
- 1998-2000 Studied Modern Art Principles and Techniques, Mahmood Samandaryan's Art Academy, Tehran, Iran.
- 1994-1998 Studied Watercolor Painting, Atashzad Academy of Art, Mohammad Reza Atashzad, Tehran, Iran.
- 1991-1994 Studied Drawing and Painting Principles, Mojgan Mousapour, Isfahan, Iran.

FINE ARTS EXHIBITIONS

- 2010 Engineering's got talent, University of Victoria, Victoria, Canada.
- 2010 Group exhibition in Cost Collective Gallery (Abstraction), Victoria, Canada.
- 2005 Individual exhibition in Museum of Contemporary Art of Isfahan, Iran.
- 2004 Group exhibition in Atashzad Art Gallery, Tehran, Iran.
- 2004 Group exhibition in University of 'Sanate Ab va Bargh' Tehran, Iran.
- 2003 Group exhibition in Atashzad Art Gallery, Tehran, Iran.
- 2002 Group exhibition in Atashzad Art Gallery, Tehran, Iran.
- 2002 Individual exhibition in Daryabeygi Gallery, Tehran, Iran.
- 2001 Group exhibition in Haft Peykar Gallery, Tehran, Iran.
- 2000 Group exhibition in Kosar Gallery, Isfahan, Iran.
- 1996 Group exhibition, engineering students, Tehran, Iran.