

# Narges Mahyar

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## Assistant Professor

University of Massachusetts Amherst  
College of Information and Computer Sciences  
Room 322, 140 Governors Dr, Amherst, MA, 01002

nmahyar@cs.umass.edu  
Citizenship: Canadian  
<http://groups.cs.umass.edu/nmahyar/>  
August 2020

## RESEARCH INTERESTS

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

## EDUCATION

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- 2014 **PhD in Computer Science**, University of Victoria, Victoria, BC.  
*Industrial sponsor: SAP Business Objects*  
Advisor: Melanie Tory  
Dissertation: *Supporting Sensemaking during Collaborative Visual Analytics*
- 2008 **Master of Information Technology**, University of Malaya, KL, Malaysia.  
Advisor: Wai (Albert) Yeap  
Thesis: *Implementation of Creative-pad: A New Creativity Support Tool*
- 1998 **Bachelor of Electrical Engineering**, Tehran Azad University, Tehran, Iran.

## AWARDS

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- 2017 **Outstanding Paper Award**, Council of Educators in Landscape Architecture, 2017
- 2016 **Honorable Mention Award**, Interactive Surfaces and Spaces (*ISS*), 2016
- 2016 **Best Poster Honorable Mention**, Graphics Interface (*GI*), 2016
- 2014 **Best Paper Award**, IEEE Visual Analytics Science and Technology (*VAST*)
- 2014 **Best Research Note Honorable Mention**, Graphics, Animation and New Media (*GRAND*), 2014
- 2010 **Best 4 papers**, IEEE Visual Analytics Science and Technology (*VAST*)
- 2008 **SAP ARC North America Fellowships** (Multi-touch Interfaces), University of Victoria (\$105,000)

## RESEARCH EXPERIENCE

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- 2018-present **Assistant Professor**, University of Massachusetts Amherst, Amherst, MA.
- 2016-2018 **Design Lab Fellow and Postdoctoral Researcher**, UCSD, San Diego, CA.  
Mentor: **Steven P. Dow**  
Research Projects: **CommunityCrit** and **D4SD** (Design for San Diego): two online platforms for engaging the public in civic issues.
- 2014-2016 **Postdoctoral Fellow**, University of British Columbia, Vancouver, BC.  
Mentors: **Kellogg Booth**, **Cynthia Girling**, and **Ronald Kellett**  
Research Projects: **UD Co-Spaces** (Urban Design Collaborative Spaces), a tabletop centered multi display technology for public engagement in urban design charrettes. I co-supervised a PhD student to analyze an ethnography study on use of collaborative technology in coordination meetings.

- 2008-2014      **Research Assistant**, University of Victoria, Victoria, BC, Canada.  
Research Projects: **CLIP** (Collaborative Intelligent Pad) and **CoSpaces** (Collaborative Spaces): two novel visualization tools and interaction techniques to facilitate sensemaking during collaborative visual analysis.
- Summer 2009      **Research Intern**, SAP, Vancouver, BC, Canada.  
Mentor: **Michael McAllister**  
I observed and interviewed business data analysts in action to acquire better knowledge of collaborative work dynamics and requirements in the business intelligence domain.
- 2006-2008      **Research Assistant**, University of Malaya, KL, Malaysia.  
I designed and developed a creativity support tool, **Creative-Pad**, to assist creative directors in an advertising agency to come up with new idea.

## **PUBLICATIONS**

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Note: top-tier venue in visual analytics is VAST. Highest quality VAST papers appear in a special issue of IEEE Transactions on Visualization and Computer Graphics (TVCG). ISS is the premier venue for research on design, development and use of emerging tabletop, interactive spaces and multi-surface technologies.

### **Refereed Journal Papers**

- [J6] 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)*, 43 pages, 2020, in press.
- [J5] 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.
- [J4] 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.
- [J3] Ali Sarvghad, Melanie Tory, and **Narges Mahyar**, “Visualizing Dimension Coverage to Support Exploratory Analysis”, *IEEE Transactions on Visualization and Computer Graphics*, 10 pages, 2016. [Acceptance Rate: 21%]
- [J2] **Narges Mahyar** and Melanie Tory, “Supporting Communication and Coordination in Collaborative Sensemaking”, *IEEE Transactions on Visualization and Computer Graphics*, pp. 1633-1642, Oct. 2014. [Acceptance Rate: 22.6%] **[Best Paper Award, VAST 2014]**
- [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 Best Papers of Visual Analytics Science and Technology (VAST) 2010 (top 4 papers)]**

### **Refereed Conference Papers**

- [C9] Mahmood Jasim, Pooya Khaloo, Somn 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.

- [C8] **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.
- [C7] **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.
- [C6] 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.
- [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. [Acceptance Rate: 28%] **[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, 10 pages, 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. [Acceptance Rate: 28%]. **[Selected as BEST VAST papers (top 4 papers) for publication in the "Information Visualization" journal]**
- [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 Short Papers**

- 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.
- 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 eight IEEE Workshop on Evaluation and Beyond - Methodological Approaches for Visualization*, held in conjunction with IEEE VIS 2020, 10 pages, 2020, to appear.
- 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*, CHI, 2020, to appear.
- 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*, CHI, 2020, to appear.
- 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.

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.

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

**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.

**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, 2016. [**Best Poster Honorable Mention**]

**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.

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.

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

**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.

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.

### **Other Publications**

**Narges Mahyar**, Mahmood Jasim, and Ali Sarvghad, “Designing Technology for Sociotechnical Problems: Challenges & Considerations, IEEE Computer Graphics and Applications”, 12 pages, 2020, to appear.

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**, and Melanie Tory, “CLIP: A Visual Thinking Space to Support Collaborative Sensemaking and Reasoning”, *Graphics, Animation and New Media (GRAND) NCE AGM*, 4 pages, 2014. [**Best Research Note Honorable Mention**]

**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.

### **INVITED TALKS**

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| 2019 | <b>University of Toronto</b> , Department of Computer Science.<br>Social Computing and Visualization for Democratizing Public Participation |
| 2019 | <b>Ontario Tech University</b> , Department of Computer Science.  |

- 2019 Social Computing and Visualization for Democratizing Public Participation  
**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

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### 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 (*VAST*)
- 2015-2019 ACM Human Factors in Computing Systems (*CHI*)
- 2016-2018 Computer-Supported Cooperative Work and Social Computing (*CSCW*)
- 2017 Human Computer Interaction Journal
- 2014-2019 IEEE Computer Graphics and Applications Journal
- 2018 Interactive Surfaces and Spaces (*ISS*)
- 2017 Graphics Interface (*GI*)
- 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> )

## TEACHING EXPERIENCE

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### Instructor

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

### Co-Instructor

Fall 2017	<b>Civic Design</b> (Cogs 160) along with Prof. Steven Dow, UC San Diego.
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### Guest Lecturer

Spring 2016	<b>Graduate Research Colloquium</b> ( <i>IAT 805</i> ), School of Arts and Interactive Technology, Simon Fraser University.
Summer 2014	<b>Human-Computer Interaction</b> ( <i>SENG 310</i> ), University of Victoria.
Spring 2014	<b>Advanced Methods for Human-Computer Interaction</b> ( <i>CSC 578C</i> ), University of Victoria.
Summer 2013	<b>Human-Computer Interaction</b> ( <i>SENG 310</i> ), University of Victoria
Fall 2008	<b>Object-Oriented Software Development</b> ( <i>SENG 330</i> ), UVic.

### Teaching Assistant

Spring 2014	<b>Human-Computer Interaction</b> ( <i>SENG 310</i> ), University of Victoria.
Spring 2014	<b>Advanced Methods for Human-Computer Interaction</b> ( <i>CSC 578</i> ), UVic.
Summer 2013	<b>Human-Computer Interaction</b> ( <i>SENG 310</i> ), University of Victoria.
Fall 2013	<b>Research Skills</b> ( <i>CSC 595</i> ), University of Victoria.
Fall 2012	<b>Software Development Methods</b> ( <i>SENG 265</i> ), University of Victoria.
Fall 2012	<b>Fundamentals of Programming</b> ( <i>CSC 110</i> ), University of Victoria.
Spring 2012	<b>Computers &amp; Information Processing</b> ( <i>CSC 105</i> ), University of Victoria.
Spring 2011	<b>Elementary Computing</b> ( <i>CSC 100</i> ), University of Victoria.
Fall 2011	<b>Elementary Computing</b> ( <i>CSC 100</i> ), University of Victoria.
Spring 2009	<b>Human-Computer Interaction</b> ( <i>SENG 310</i> ), University of Victoria.

### Consultant and Teaching Assistant Administrator

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

## **SUPERVISION AND MENTORSHIP**

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Current:	46- Mahmood Jasim, PhD. Computer Science, UMass Amherst. 45- Alyx Burns, PhD. Computer Science, UMass Amherst.
Former:	44- Tamanna Motahar, PhD. Computer Science, UMass Amherst. 43- Somin 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, BSc. 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- Spring 2017	Mentored undergrad and grad students, University of California San Diego. 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- Dangyi 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 & Summer 2010	Co-supervised an undergrad software developer, University of Victoria. 1- Tyler Weeres, BSc. Computer Science, UVic.

### **INDUSTRY EXPERIENCE**

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2004 - 2005	<b>Leader of the E-banking Team, Leader of E-payment Research Group</b> , ITC, Tehran, Iran. Researched and proposed solutions to implement E-banking and E-payment services over the national network.
2003 - 2004	<b>IT Expert, Member of IT Services Research Group</b> , ITC, Tehran, Iran. Researched technologies to transmit video using ITC infrastructure. I contributed to successful implementation of a Video on Demand service.
2002 - 2003	<b>Network Management Analyst</b> , ITC, Tehran, Iran. Researched hardware/software solutions to improve network performance.
2000 - 2002	<b>Network Infrastructure Designer</b> , 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**

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2015-2016	<b>Member of Women in Computer Science (FOWCS)</b> , University of British Columbia, BC, Canada. Developed HCI related curriculum for grade 10-12.
Summer 2015	<b>Volunteer</b> , 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	<b>Volunteer</b> , 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	<b>Teacher and Member of the Executive Committee of Internet Course for Seniors</b> , University of Victoria, Computer Science Volunteer Program. Taught basic skills for navigating the Internet and using email.
2008-2011	<b>Member of Women in Engineering and Computer Science</b> , UVic.
2001-2005	<b>Co-chair, Women in development extra curriculum activities</b> , 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 AND EDUCATION**

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- 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**

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- 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.