Bahar Partov

Technologist • Community Development baharp@csail.mit.edu • https://baharxy.github.io

Profile

I am a generalist with a background in engineering, computer science and mathematical modeling. I have hands on skills in building practical systems and I am passionate about community development and promoting diversity and inclusion.

Skills

Analytic: Mathematical modeling, optimization methods, statistical learning, data

analysis and wireless system design

Research: Track record of research work appeared in top tier IEEE/ACM journals

and conferences: Goole scholar (Link) .

Community: Mentoring, public speaking, organizing events, writing articles,

local/neighbourhood mutual aid services

Languages: Persian: Native, English: Fluent, French: Intermediate

Arabic/Turkish: basic understanding

Development: Python, C, C++, AWK, Perl, Bash, Databases, PhP

management web interfaces, wireless service management, and web-hosting services.

Tools: MATLAB, R, Ns2, LaTEX, Adobe tools

Hardware: Optoelectronic devices (test and evaluation), programmable radios

(USRPs and PicoZed radios).

Work Experience

HaiLa, Funded by TandemLaunch Inc, Co-Founder, Montreal, Canada 04/2017 - 05/2019

I worked as the technical lead of the startup, Wavelite (now re-branded as HaiLa). HaiLa's technology is a hardware/software IoT solution that aims at enabling scalable and sustainable development of IoT sensors. HaiLa addresses the key challenge with limited life time of wireless sensors. I worked as the technical lead, contributed towards building functional prototypes, technology roadmap creation, recruiting, and steering the software and hardware development. The startup project received a number of recognitions during my time there e.g. CES climate change award and being featured in RFID journal.

Senseable City Lab, MIT, Postdoc Scholar, Cambridge, USA
Trinity College Dublin, Postdoc Fellow, Dublin, Ireland
Bell Labs, Nokia, <i>PhD fellow, Dublin, Ireland</i>
Oclaro Inc, Product Engineer, Paignton, U.K. 02/2010 - 08/2012 Started as a graduate engineer, and through a rotation program gained experience across various departments including product development, application engineering, reliability, quality, new product introduction and product management. Transitioned into the product engineering, worked on automating the test and verification processes for 10Gig opto-electronics transceivers. Collaborated in developing one of these optical transceivers for wind turbines applications.
Community
Service d'Entraide Saint-Romuald , Volunteer
Service d'Entraide Saint-Romuald , Volunteer
Service d'Entraide Saint-Romuald , Volunteer 06/2022-present Neigbourhood support services Chebucto Community Net, Volunteer 11/2020-present
Service d'Entraide Saint-Romuald , Volunteer
Service d'Entraide Saint-Romuald , Volunteer Neigbourhood support services Chebucto Community Net, Volunteer Support on occasional/adhoc basis. Persian Women In Tech, Montreal, Team lead and co-founder Team lead of the Montreal's chapter, organizing career fairs, monthly events, inviting speakers, approaching potential sponsors for hosting the event. AI for Social Good, summer school, Lecturer and Mentor May 2018, May 2019 Giving workshops and mentoring young students selected across Canada to attend AI for social good's conference. Toastmasters, Entrepreneurs' Club, Montreal, Volunteer O6/2017-06/2018 Participated in weekly meetings. Crowd2map Tanzania, Volunteer 2018 Crowdmapping rural Tanzania, to fight FGM NetLab, Trinity College Dublin, Organizer 11/2015-08/2016 Coordinated NetLab group weekly seminar series at the school of computer science and statistics, Trinity

Reviewer and program committee member for leading conferences and journals in wireless networking.

Hamilton Institute / Bell Labs, Ph.D., Maynooth/Dublin, Ireland
University of Essex, M.Sc., Colchester, U.K
University of Tabriz, B.Sc. Tabriz, Iran
Grants and Funding
Joint recipient of 25K CAD grant in collaboration with Dalhousie University
Recipient of 60K CAD university-industrial partnership grants (by Mitacs) 06/2017, 10/2017 Provided internship opportunities for graduate students to collaborate on Wavelite's research and development in software, hardware, and RF design fields.
Joint recipient of 25K CAD grant in collaboration with Polytechnique Montreal
Secured 600k CAD investment fund from TandemLaunch Inc
Recipient of Computing Research Association travel grant, MobiCom
Recipient of N^2 Women young researcher fellowship
Four year PhD studentship
Selected Talks and Teaching
AI4 Social Good Summer Lab , 06/2018 Lecturer, ""
Women in engineering McGill , 06/2018 Invited Speaker, "Wavelite in the Internet of Things era"
Microsoft Research Cambridge , 06/2016 Invited Speaker, "Resource Allocation for Next Generation of radio access Networks: how effective are my schedulers?"
University of Texas at Austin , 03/2015 Invited Speaker, "Utility Fair User Associations in LTE/WiFi Networks"
Statistical Methods for Computer Science , Fall 2015, Teaching Assistant

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Other Interests

includes but not limited to music, books, and open air.