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

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

writing and listening, basic in speaking, Arabic/Turkish: basic

understanding

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

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

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

(USRPs and PicoZed radios).

Work Experience

Chebucto Community Net, is a none-profit community based network located in Halifax, NS. CCN started as a community network to provide variety of internet services mostly, to the communities in need. I have been working to upgrade the existing platforms built in 1995. This included the email, mailing list, office management web interfaces, wireless service management, and web-hosting services.

URELLES is a platform that advocates diversity and inclusion. The platform is available both in French and English. Being concerned with implications around blind and often biased applications of technology in our everyday life, I am interested in interviewing experts who offer a multidimensional point of view.

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.

Contributed in research work at Prof. Dina Katabi's group. Worked on improving the capacity of indoor small cell (basestations) through distributed synchronization among the basestations. Contributed towards integration of the proposed architecture with open source LTE stack libraries.

Trinity College Dublin, Postdoc Fellow, Dublin, Ireland	and be ner. s.
This involved using machine learning, and statistical method as well as mathematical analysis of these networks behavior, aiming to maximize utility fair objective functions. As well as working with large cell phone of sets in order to design an energy efficient deployment of the base stations. These works have been parts of PhD thesis and lead to a number of publications in top tier journals and conferences.	lata
Oclaro Inc, Product Engineer, Paignton, U.K. 02/2010 - 08/20 Started as a graduate engineer, and through a rotation program gained experience across various department including product development, application engineering, reliability, quality, new product introduction and processes for 10Gig opto-electronics transceivers. Collaborated in developing one of these optical transceivers for wind turbines applications.	ents cod- tion
Communit	; y _
Chebucto Community Net, Volunteer	nt
Persian Women In Tech, Montreal, <i>Team lead and co-founder</i>	
AI for Social Good, summer school, <i>Lecturer and Mentor</i>	
Toastmasters, Entrepreneurs' Club, Montreal, Volunteer	18
NetLab, Trinity College Dublin, Organizer	
N^2 Women IEEE/ComSoc society, Fellow	20
IEEE conferences and Journals, <i>Volunteer Reviewer</i>	20
Academie	cs
Hamilton Institute / Bell Labs, Ph.D., Maynooth/Dublin, Ireland	

In network mathematics. Thesis topic: Resource Allocation for Next Generation RANs. Adviser: Prof. Douglas

Leith. Industrial advisers: Dr. Holger Claussen- Dr. Rouzbeh Razavi

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. 07/2017
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 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

I enjoy playing music, spending time outdoors and reading during my free time.