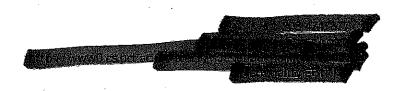


# City of Seattle Boards & Commissions Notice of Appointment

Appointee Name:	,						
Dr. Afra J. Mashhadi						4	
Board/Commission Name:		Position Title:					
Seattle Pedestrian Advisory Boo	ırd	Member					
Appointment OR R	eappointment	Council Confirmat	ion requir	ed?	<u> </u>	5	
				$\exists$		0	
,		☐ No			0		
Appointing Authority:		Term of Office:	·		72		
Council	•	04/01/16 to 04/01	/18	Ţ.	ķ		
Mayor	•				0.		
Other: Specify appointing a	uthority						
Residential Neighborhood:	Zip Code:	Contact Ph	one No.:	· · · -			
Uptown	98119		7			.,.,	
Legislated Authority:							
Resolution 29532					·		
Background:				,			
Afra is a research scientist for B			The second secon	i i			
understanding urban cities and							
In this line, she has investigated report information about city in						13 10	
understanding the intangible fa						ants	
to bridge the gap between rese			· · · · · · · · · · · · · · · · · · ·	*.			
		e (original signature	):	Appointing S	ignatory	:	
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3/21/16		Book	·	Edward B. Mi	urray		
9				Mayor of Sea	ttle		

# Dr. A fra J.M ashhadi



#### BRIEF BIO

Since April 2012, I have been a research scientist at Bell Laboratories where I am a member of Internet of Things team led by Fahim Kawsar. Prior to joining Bell Labs I was part of Mobile System group at University College London where I also received my Ph.D. under the supervision of Prof. Licia Capra. My research pioneered the use of human behavioural traits to facilitate content dissemination in delay tolerant networks (DTN). My current research is on Ubiquitous Computing where I leverage human behavioural patterns to design human-centric systems; and Human Computer Interactions (HCI) where I aim to uncover the perception of users interaction with such systems. In particular my main focus is on CrowdSensing which refers to the data collection methodology where information is gathered from the participants through either explicit CROWD-sourcing or implicit pervasive SENsing. Results of my research have been published in top-tier conferences (Percom, CHI, CSCW, Ubicomp) and journals, and trialled as part of multiple deployments in European projects and private entities such as WebSummit 2015. My most recent professional activities include acting as Panel Chair of UrbanIoT2016, serving as AC committee member of CSCW2016, ICWSM 2016, external reviewer for CHI 2016 and UBICOMP 2015, as well as organising an upcoming workshop in CSCW 2016.

#### **EDUCATION**

PhD in Computer Science Awarded March 2011 University College London Sep. 2007 - Mar. 2011

- ☐ Thesis Title: Content Dissemination for Participatory Delay Tolerant Networks
- ☐ Advisors: Prof. Licia Capra and Prof. Stephen Hailes

  The thesis presents content dissemination protocols that leverage information about user mobility, as well as interest, in order to deliver content, while avoiding overwhelming non-interested users. In the thesis, I explicitly reason about battery consumption of mobile devices to model participation, and achieve fairness in terms of workload distribution among participants. I also introduce a dynamic priority scheduling framework, which enables the network to allocate the scarce energy resources available to support the delivery of the most desired messages.

M Eng Computer Science First Class Honours University College London (UCL) Sep. 2003 - May 2007

#### WORK EXPERIENCE

Senior Research Scientist IoT Group (Bell Laboratories)

Dublin April 2012- Present

In my current role as a senior research scientist in Bell Labs, I lead a sub-team of three researchers in Dublin. I have demonstrated my leadership skills through both bringing cutting-edge research directions and multiple projects to the team. More precisely, I have initiated two projects in the past three years. One as an external EU project that received funding from EIT ICT labs for which I acted

as the principle investigator. More recently an internal (ongoing) project on Future Communities for which my work has lead to external collaboration with CI Lab and deployment in WebSummit 2015. In addition to my team members, I have supervised over the research interns and acted as an external supervisor for others including a group of four that year students in the Media Lab Amsterdam. The result of my research has received attention and praise from both internal and external entities. With over seven ded patents, I have illustrated how my andings could be translated into products and services. I have also presented and demonstrated my work externally to the community in top-tier conferences. London Research Fellow March 2011 - February 2012 iTour - Intelligent Transport system for Optimised URban trips (UCL) During my Post-Doc training at UCL I was funded by the i-Tour project, a multimillion Euro project of the European Commission, aiming to provide intelligent mobility services and encouraging a \sustainable public transport" system. UCL was one of the nine academic and industrial EU partners, alongside FiAT, ULA and FORMIT. As part of this project I was responsible for de⊡ning novel mechanisms for quality assurance in crowdsourced transport information. This research direction engendered my subsequent work on urban crowdsourcing where I investigated coverage and quality challenges. My research in the Eeld of urban crowdsourcing led to multiple top-tier publications, an honourable mention by the UNITED NATIONS Globe Pulse labs, as well as to many workshops and conferences which I have organised and took part in as invited speaker. During this period I also co-supervised two junior researchers, Desi Hristova and Chris Smith for whom I continue to act as external PhD supervisor in Bell Labs.

Teaching and Supervisory Experiences
Computer Science Department (UCL)

London Sep. 2007 -2012

During my postgraduate years in UCL I carried active duties such as teaching courses in Requirement analysis and Principles of Programming - as well as regularly organising and providing latex classes for fellow PhD students and others. I have been responsible for the supervision of several students at dilerent levels of study. More specifically, I had been the principle supervisor for two groups of final year Advanced Soft. Eng. project, as well as a final year MEng student whose project focused on information-centric content distribution in DTN, and a summer research intern.

- { Sep 2009 to Mar 2010: Final year student, G. Lo Giusto, whose project was focused on information-centric content distribution in DTN.
- { June 2009 to Sep 2009: Research intern, Jonathan Elis, whose work was focused on the Friend-Sensing project and implementation for the BlackBerry platform.
- { Sep 2008 to Mar 2009: Final group projects for Masters in Advanced Software Engineering (2 groups of 5 students each).

Visiting Researcher Deutsche Telekom Labs	Berlin April 2010 - July 2010
A sset Servicing Technology Developer Goldman Sachs	London May 2006 - Sep. 2006
Research and Development Intern Computer Science Department (UCL)	London May 2005 - Sep. 2005

## PROFESSIONAL ROLES

N 2Women Fellowship Chair http://committees.comsoc.org/n2women/ I am immensely proud to serve as as the N2WOMEN fellowship co-chair 2015. Networing Women (N2 Women) is a discipline-speci⊞c community for researchers in the commetworking research ⊞dds. The main goal of N2 Women is to foster connections and represented women in computer networking and related research ⊞dds.	munications and
Principle Investigator of EIT ICT TravelDashboard Project	2013-2014
In 2012 I took the initiative to bring a multi million project funded by EIT ICT labs to acted as PI for this project. As the PI I actively worked with other partners to shape t the project's goals and contributions from Bell Labs stat. With the money acquired fill hired and supervised a research assistant who helped with the technology maturation of the that product which was demonstrated on Milan Expo in 2015.	he proposal, de- rom this project
Honorary Research Sta⊟ at UCL	2012-Present
I hold my honorary research position at UCL and actively collaborate with my previou and Intel Collaborative Research Institute located at UCL	us research team
PROFESSIONAL ACTIVITIES  □ Organising Committee  { Program Chair: I have served as the Technical Program Co-Chair for:  □ The First International Conference on Urban-IoT in 2014.  □ GeoHCI Workshop in conjunction with CHI2013  □ Quanti□ed Workplace Workshop in conjunction with CSCW2016  { Panel Chair: Urban-IoT 2016.  { AC Program Committee:  □ CSCW 2016  □ CSCW 2015  □ UIC 2015  □ ICWSM 2016  □ ICWSM 2015  □ MobiQuitous 2016  □ MobiQuitous 2014  □ Wikisym 2015  □ Wikisym 2014  □ Wikisym 2013  □ PURBA 2015	
☐ UrbanIoT 2016 ☐ UbiCrowd 2012	

{ External Reviewer: □ CHI 2016 □ CHI 2015 □ CHI 2014 □ MobiCase 2015	
<ul> <li>☐ Ubicomp 2015</li> <li>☐ Ubicomp 2014</li> <li>☐ Ubicomp 2013</li> <li>☐ IEEE Pervasive Computing</li> <li>☐ IEEE Transactions in Computing</li> </ul>	
□ Editorial Advisory Board of: \Enriching Urban Spaces with Ambient Computing, the Internet of Things and Smart City Design"	_
Student Advising and Mentorship	
Research Interns at Bell Labs	
□ [2015] - Otto Waltari- WiFi sensing	
□ [2014] - Alessandro Montanari - Privacy of IoT objects	
□ [2013] - Moustafa Alzantot - TravelDashboard	
□ [2012] - Vaclav Belak - Information Di⊡usion	
Research Interns at UCL	
□ [2011] - Desi Hristova - Social Aspect of Crowdsourcing	
[3010] - G. Lo Giusto - Folksonomy-based Content Dissemination	
□ [2009] - Jonathan Elis - Friend Sensing	
External PhD Advisor	
□ [2012-2014] - Chris Smith	
External PhD Examiner	
□ [2015] - Catia Prandi	
AWARDS	
Women in Networking (N2Women) Fellowship Award2010EPSRC (DTA) PhD full funding2007-2010Nu□eld Undergraduate Award (\$1,800)2005	
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SELECTED PUBLICATIONS

2016

	□ Afra Mashhadi, Fahim Kawsar, Akhil Mathur, Casey Dugan, N.Sadat Shami. Let's Talk About the Quanti □ed Workplace. In the proceedings of the CSCW '16 Companion, San Francisco, CA, USA.	
	□ Sourav Battacharya, Afra Mashhadi, Fahim Kawsar. In Pursuit of Happiness: Understanding Subjective Well-Being of Citizens from the City Attributes. Under review in PLOS ONE journal.	
	2015	
	□ Geert Vanderhulst, Afra Mashhadi, Mina Dashti, Fahim Kawsar. Detecting Human Encounters from WiFi Radio Signals. In the proceedings of the 14th ACM international conference on Mobile and Ubiquitous Multimedia (MUM 2015).	
	□ Akhil Mathur, Marc Van den Broeck, Geert Vanderhulst, Afra Mashhadi, Fahim Kawsar. Tiny Habits in the Giant Enterprise: Understanding the Dynamics of a Quanti □ed Workplace. In the proceedings of the ACM international joint conference on Pervasive and Ubiquitous Computing (Ubicomp 2015).	
	□ U. Gunay Acer, A. Mashhadi, C. Forlivesi, F. Kawsar. Energy E⊡ cient Scheduling for Mobile Push Noti⊡cations. In proceedings of the 12th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (Mobiquitous 2015).	
·	□ V. Belak, A. Mashhadi, A. Sala, D. Morisson. Phantom Cascades: The e⊟ect of hidden nodes on information di⊡usion. In Elsevier Journal of Computer Communication.	
,	☐ G. Vanderhulst, M. Dashti, A. Mashhadi and F. Kawsar. CrumblR: Enabling Proxemic Services through Opportunistic Location Sharing. In Proceedings of the International Conference on Pervasive Computing and Communication (Percom 2015), March 2015	
٠.	□ A. Mashhadi, G. Quattrone, and L.Capra. The Impact of society on Volunteered Geographic Information: the case of OpenStreetMap. A book chapter in Springer Edition of OpenStreetMap in GISceince: experiences, research and applications.	
	2014	
	□ A. Mashhadi, Akhil Mathur and Fahim Kawsar. The Myth of Subtle Noti⊏cation. In Adjunct Proceedings of the International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014), September 2014	
	☐ A. Mashhadi and Fahim Kawsar. Human Data Interaction in IoT: The Ownership Aspect. In Proceedings of The IEEE World Forum on Internet of Things 2014 (WF-IoT 2014), Seoul, Korea, 6-8 March 2014	
	□ C. Smith, A. Mashhadi and L.Capra. Poverty on the Cheap: Estimating Poverty Maps Using Aggregated Mobile Communication Networks. In Proceedings of the of the ACM conference on Human Factors in Computing Systems (CHI2014)	

□ G. Quattrone, A. Mashhadi, L. Capra. Modelling Growth of Urban Crowd-Sourced Information. In Proceedings of the 7th ACM International Conference on the Web Search and Data Mining. (WSDM 2014)
□ G. Quattrone, A. Mashhadi, L. Capra. Mind the Map: The Impact of Culture and Economic A□ uence on Crowd-Mapping Behaviours. In Proceedings of the 17th ACM International Conference on the Computer Supported Work and Social Computing. (CSCW 2014)
2013
□ T. Yasseri, G. Quattrone, A. Mashhadi. Temporal Analysis of Activity Patterns of Editors in Collaborative Mapping Project of OpenStreetMap. In Proceedings of the 8th International Conference on Wikis and Open Collaboration (Wikisym2013).
□ B. Hecht, J.Shoning, M.Haklay, L.Capra, A. Mashhadi, L. Terveen and M. Kawn. Geographic Human Computer Interaction. In Proceedings of the ACM conference on Human Factors in Computing Systems. CHI2013.(Extended Abstract).
□ C. Smith, A. Mashhadi and L.Capra. Ubiquitous Sensing for Mapping Poverty in Developing Countries. In Proceedings of in 3rd International Conference on the Analysis of Mobile Phone Datasets (Net Mob 2013). May 2013.
D. Hristova and G. Quattrone and A. Mashhadi and L. Capra. The Life of the Party: Impact of Social Mapping on OpenStreetMap. In Proceedings of the 8th AAAI International Conference on Weblogs and Social Media (ICW SM 2013). June 2013.
□ A. Mashhadi and Giovanni Quattrone and L. Capra. Putting Ubiquitous Crowd-sourcing into Context. In Proceedings of the 16th ACM International Conference on the Computer Supported Work and Social Computing (CSCW 2013). February 2013.
2012
□ A. Mashhadi and Giovanni Quattrone and L. Capra and Peter Mooney. On the Accuracy of Urban Crowd-Sourcing for Maintaining Large-Scale Geospatial Databases. In Proceedings of the 8th International Conference on Wikis and Open Collaboration (Wikisym2012). Linz, Austria. August 2012.
D. Hristova and A. Mashhadi and L. Capra Mapping Community Engagement with Urban Crowd-Sourcing. In Proceedings of When the City Meets the Citizen (WCMCW), in conjunction with ICWSM. Dublin, Ireland. June 2012.

September 20	iadi and L. Capra. Quality Con nternational Workshop on Ubiqi 1911.			
Proceedings of	nadi and L. Capra. Priority So of the 12th IEEE International S VoWM oM '11). Lucca, Italy. J	Symposium on a World of Wi		
	radi, S.Ben Mokhtar and L. Cap rnal Special Issue on Ad Hoc No		ation in Participatory	DTNs.
2010				·
in Mobile Set	o, A. J. Mashhadi, and L. Capra attings. In Proceedings of the 6ton with MobiCom). Chicago. U	th ACM Workshop on Chall		
ing Service fo	tar, A. J. Mashhadi, L. McNama or Opportunistic Social Networki IS 10). Paris. France. April 201	ing. In Proceedings of the 3rd		
2009				
for E⊟ cient (	adi, S. Ben Mokhtar and L. Capr Content Dissemination in DTN. of Wireless, Mobile and Multime	In Proceedings of the 10th IE	EEE International Sym	posium
PATENTS	· )			
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2015 □ Geert Vande	erhulst, A. Mashhadi, and Fahim roint, User Equipment And A C			leasure,
2015 □ Geert Vander An Access Po	erhulst, A. Mashhadi, and Fahim	omputer Program Product .	EU Patent Pending	leasure,
2015 □ Geert Vander An Access Po	erhulst, A. Mashhadi, and Fahim oint, User Equipment And A C	omputer Program Product .	EU Patent Pending	leasure,
2015  Geert Vander An Access Po Geert Vander  2014  Geert Vander	erhulst, A. Mashhadi, and Fahim oint, User Equipment And A C	omputer Program Product . n Kawsar. User Tracking. E atform For Privacy-Preservec	EU Patent Pending U Patent Pending	

<ul> <li>A. Mashhadi, Utku Acer Gunay, Fahim Kawsar and Marc Van den Broeck. Wearable Display For Personal Computing. EU Patent Pending</li> </ul>
2013
☐ A. Mashhadi, Fahim Kawsar, Utku Acer and Claudio Forlivesi. Method For Priority Scheduling Of Noti⊏cation And Ad Messages For E⊡ cient Network Communication. EU Patent Pending
A. Mashhadi, Aidan Boran and Vijay Venkateswaran. Security Mechanism for Short Range Radio Frequency Communication Method. US Patent Pending
REFERENCES

Available upon request only.

## **Seattle Pedestrian Advisory Board**

11 Members per Resolution 29532, 2-year terms

1 Get-Engaged Member per Ordinance 120325, 1-year term

All subject to City Council confirmation:

- 5 City Council-appointed
- 7 Mayor-appointed
- *O* Other Appointing Authority-appointed

#### Roster:

*D	**G	Position No.	Position Title	Name	Term Start Date	Term End Date	Term #	Appointed By
5	М	1.	Member	Beau Morton	4/1/16	4/1/18	1	Council
6	П.	2.	Member	Catherine E. Morrison	4/1/15	4/1/17	1	Council
6	М	3.	Member	Paul Muldoon	4/1/15	4/1/17	1	Council
6	М	4.	Member	Gordon Padelford	3/30/15	4/1/17	1	Council
2	F	5.	Member	Angela Davis	7/1/15	4/1/17	1	Council
8	F	6.	Member	Dr. Afra J. Mashhadi	4/1/16	4/1/18	1	Mayor
6	F	7.	Member	April A. Kelley	4/1/15	4/1/17	1	Mayor
9	F	8.	Member	Christina Rajan Billingsley	4/1/16	4/1/18	1	Mayor
6	F	9.	Member	Janine C. Blaeloch	4/1/16	4/1/18	1	Mayor
6	F	10.	Member	Joanne Donohue	4/1/15	4/1/17	2	Mayor
5	М	11.	Member	Ryan Bondroff	4/1/16	4/1/18	1	Mayor
5	F	12.	Get-Engaged Member	Cameron Zapata	9/9/15	9/1/16	1	Mayor

Dive	ersity	Chart:			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Men	Women	Vacant	Minority	Asian- American	Black/ African American	Hispanic/ Latino	American Indian/ Alaska Native	***Other	Caucasian/ Non- Hispanic	Pacific Islander	Middle Eastern	Multiracial
Mayor	1	6		4					2	3		1	1
Council	3	2		2		1			1	3			
Other													*
Total	4	8		6		1			3	6		1	1

#### Key:

\*D List the corresponding *Diversity Chart* number (1 through 9)

\*\*G List gender, M or F

\*\*\*Other Includes diversity in any of the following: race, gender and/or ability