Armin Pourshafeie

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Education	Stanford University Ph.D. candidate in physics, 2 M.S. Statistics, 2018 Advisor: Carlos D. Bustama Research: computational ger Harvard College	2019 (expected) nte; Co-Advisor: Steven Chu. netics and biomdeical data science.
	A.B. in Physics and Mathem Magna cum laude with High	natics, 2009-2013. est Honors in Field.
Research	Biological Network Analysis Networks provide an effective abstraction of biological systems but real world data can be noisy. Computational tools can improve the quality of experimentally constructed networks.	
	Unsupervised learning from noisy networks with applications to Hi-C data. Wang B, Zhu J, Pourshafeie A , Ursu O, Batzoglou S, Kundaje A. NIPS 2016 (pp. 3305-3313).	
	Network Enhancement: A G Bo Wang [*] , Armin Poursh Serafim Batzoglou, Jure Lesl [*] Equal contribution	eneral Method to Denoise Weighted Biological Networks afeie [*] , Marinka Zitnik [*] , Junjie Zhu, Carlos D. Bustamante, kovec. Nature Communications (in press) 2018
	Multicenter GWAS The current paradigm of accum Due to security risks, expenses, distributed learning across multiplication of the security risks and the security risks are security as a security result.	nulating genetic data in central location(s) is undesirable. privacy/regulatory issues). An alternative angle is tiple data silos.
	Caring without sharing: Met Armin Pourshafeie , Carlo (Available on biorxiv. Subm	ta-analysis 2.0 for massive genome-wide association studies s D. Bustamante, Snehit Prabhu, itted)
Teaching	Dept. Physics, Stanford TA, Physics 43: Electricity a TA, Physics 67: Introduction	University and Magnetism, 2015 a to Laboratory Physics, 2015
	Dept. Applied Mathema TA, Applied Math 111: Scie	tics, Harvard University ntific Computing, 2013-2014

Dept. Physics, Harvard University

TA, Physics 123/223: Laboratory Electronics, 2012-2014

Awards and Fellowships	 NIH-SGTP 2015-2018 Magna cum laude with highest honors in field 2013 Harvard University Certificate of Distinction in Teaching 2013 NSF Research Experience for Undergraduates (REU) Fellowship 2008 Harvard College Research Program (HCRP) Fellow 2011 	
Presentations and Talks	 American Society of Human Genetics (ASHG) 2018. Invited Session on genetic data privacy (Organizer, Moderator). ASHG 2018. Poster presentation. NHGRI Annual Training and Career Development Meeting 2018. Poster presentation. ASHG 2017. Poster presentation. NHGRI Annual Training and Career Development Meeting 2017. Poster presentation. ASHG 2016. Poster presentation. NHGRI Annual Training and Career Development Meeting 2016. Poster presentation. 	
Community Outreach	Organizer and moderator for Genetic Data Privacy invited session at American Society of Human Genetics (2018). Co-instructor for Stanford Artificial Intelligence Laboratory's Outreach Summer Program (SAILORS 2016). Materials at: https://github.com/apoursh/sailors-compbio Harvard Model Congress (2012)	
Languages and Skills	English (native), Farsi (native) Python, R, MATLAB, Mathematica, C++(intermediate)	
Relevant Courses	Applied Statistics (Stat315a,b), Mining Massive Data Sets (CS246), Deep Learning in Genomics and Biomedicine (CS273b), Computational Genomics (CS242), Algorithms in Biology (CS374) Convex Optimization (EE364a,b), Statistical and ML Methods for Genomics (Stats345)	
Hobbies	Weightlifting, gardening.	