Ameen Eetemadi

Title: Ph.D. Candidate

Research Area: Applied Machine Learning

Citizenship: U.S. Citizen

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Department of Computer Science and
UC Davis Genome Center,
Kemper Hall 2063,
University of California, Davis

EDUCATION	◇ **University of California**, Davis, CA	(2014 - now)
	Ph.D. Candidate in Computer Science (Machine Learning)	
	Advisor: Prof. Ilias Tagkopoulos	
	◇ **Wayne State University**, Detroit MI	(graduated 2012)
	M.Sc in Computer Science (Data Mining)	
	Advisor: Prof. Farshad Fotouhi	
	◇ **Sharif University of Technology**, Tehran, Iran	(graduated 2005)
	B.Sc in Computer Engineering (Software)	

WORK EXPERIENCE	◇ **University of California**, Davis, CA	(2014 - now)
	Graduate Research Assistant, Department of Computer Science and Genome Center	
	◇ **Microsoft**, Redmond, WA	(2008 - 2014)
	Software Development Engineer, Microsoft Office Team	
	◇ **Microsoft**, Redmond, WA	(Summer 2006)
	Software Development Engineer Intern, Microsoft Research	
	◇ **Henry Ford Health Systems**, Detroit, MI	(2005 - 2008)
	Graduate Research Assistant, Health Informatics	

SELECTED PUBLICATIONS

◇ **Eetemadi, A.** and Tagkopoulos, I., Low-FODMAP diet and microbiome in irritable bowel syndrome, a meta-analysis. (manuscript ready).

◇ Wang X, Rai N.,Pereira B., **Eetemadi, A.** and Tagkopoulos, I., Accelerated knowledge discovery from omics data by optimal experimental design. (manuscript under review)

◇ **Eetemadi, A.**, Rai N., Pereira B., Kim M., Schmitz H. and Tagkopoulos, I., 2020, The Computational Diet: A Review of Computational Methods Across Diet, Microbiome, and Health. *Frontiers in Microbiology*

◇ **Eetemadi, A.** and Tagkopoulos, I., 2019. Genetic Neural Networks: an artificial neural network architecture for capturing gene expression relationships. *Bioinformatics*.

◇ Kim, M.*, **Eetemadi, A.*** and Tagkopoulos, I., 2017. DeepPep: Deep proteome inference from peptide profiles. *PLoS computational biology*, 13(9), p.e1005661. (***contributed equally**)

◇ **Eetemadi, A.**, 2012. Medical data analysis method for epilepsy, Master's dissertation, *Wayne State University*.

◇ **Eetemadi, A.**, Siadat, M.R., Soltanian-Zadeh, H., Fotouhi, F. and Elisevich, K., 2007, "Content-Based Support Environment (C-BASE): Data Preparation and Similarity Measurement.",*Proceedings of the Seventh IEEE International Conference on Data Mining (ICDM'07)*, pp. 145-150, Omaha, NE, USA, October 28-31,

SKILLS

◇ **Programming Technologies**
Python, R, MATLAB, C++, C#, Java, HTML JavaScript, AngularJS, Node.js, Perl, ASP.net, PHP, HPC (Slurm, TORQUE)

◇ **Software Technologies**
Supervised and Unsupervised Machine Learning (worked with Torch7, TensorFlow and scikit-learn), TCP/IP, RESTful web services and sequence analysis (DNA, RNA and Metagenomics).

◇ **Database Systems**
MongoDB, PostgreSQL, Oracle (+PL/SQL), MSSQL

TEACHING EXPERIENCE	◇ **University of California**, Davis, CA	(2014 - 2019)
	Teaching Assistant: ECS 171 Machine Learning, ECS 124 Bioinformatics, ECS 120 Theory of Computations, ECS 36C Data Structures and Algorithms, ECS 30 Programming&Prob Solving.	