Ameen Eetemadi

Title: Ph.D. Candidate
Citizenship: U.S. Citizen
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Research Area: Biomedical Informatics and Machine Learning

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 under review).
- 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.