Ladan Doroud

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PROFILE

I am currently a PhD candidate in Computer Science at University of California, Davis. I am working in Prof. Jonathan Eisen's lab in UC Davis Genome Center. My research project is function prediction and community detection in large scale networks such as protein family networks.

EDUCATION

• **University of California, Davis — 2010-present**
Ph.D. in Computational Biology and Bioinformatics (Computer Science)

My GPA: 3.65/4

• **University of California, Davis — 2010-2013**
Master in Computer Science (Equivalent to passing Doctorate Qualifying Exam)

Thesis Topic: Community Detection and Function Prediction in large scale protein family networks

• **Shahid Beheshti University, Tehran, Iran — 2006-2010**

B.Sc. in Computer Science

Thesis Topic: Advanced Information Retrieval; Summarization of Multi Documents and Clustering.

My GPA: 15.36/20 equivalent to 3.07/4

EXPERIENCE

• UC Davis (09/2010 - Present) Research Assistant and Graduate student in Computer Science, working under supervision of Prof. Jonathan Eisen from the Department of Evolution and Ecology.

• UC Davis (09/2012 - 12/2012) Teaching Assistant - ECS10: Basic concepts of computing.   Instructor : Dr. Matt Bishop

- UC Davis (03/2012 - 06/2012) Teaching Assistant - ECS124: Theory and practice of Bioinformatics. Instructor : Dr. Ilias Tagkopoulos

- UC Davis (09/2011 - 12/2011) Teaching Assistant - ECS20: Discrete Mathematics for Computer Science. Instructor : Dr. Zhaojun Bai

- UC Davis (07/2011 - 09/2011) Teaching Assistant - Cosmos program in UC Davis : Computer programming in Robotics. Instructor : Dr. Ali Daddel

- UC Davis (01/2011 - 04/2011) Teaching Assistant - ECS30: Introduction for programming and problem solving. Instructor : Dr.Prem Devanbu

PUBLICATIONS

- *Under process for publication:* Dongying Wu, Ladan Doroud, and Jonathan A. Eisen. "TreeOTU: Operational Taxonomic Unit Classification Based on Phylogenetic Trees." arXiv preprint arXiv:1308.6333 (2013).

- *Poster:* Ladan Doroud, Jonathan A.Eisen. "Use of Extreme Sets as a Tool in Making Predictions of Protein Function from Sequence" CRA-Women Graduate Cohort Workshop (2014)

RESEARCH INTERESTS

- Computational biology and bioinformatics

- Data mining

- Graph theory

SKILLS

Computer Skills:

- Computer Programming : Perl, C/ C++, Python, Latex

- Applications: MATLAB, R, Cytoscape , Gephi , Pajek , Java Treeview, Biolayout3D

- Operating Systems: Linux/ Unix/ Macintosh/ Windows(95/98/2000/XP/Vista/Seven)

Language Skills:

- Persian (Farsi) – Native

- English - Full professional proficiency

- Arabic - Limited working proficiency

HONORS AND ACCOMPLISHMENTS

- Sep 2013, Center for Excellence in Teaching and Learning, UC Davis Awarded certificate in Learner-Centered Teaching: Designing Courses, Activities, and Assessments to Enhance Student Learning

- Ranked in top 0.39% among nearly one million students who took the university Entrance exam - Major : Mathematics - July 2009

- Ranked in top 0.001% among nearly 500,000 students who took the university entrance exam - Major : Foreign Languages (English) - July 2009

- Ranked in top 0.2% in total GPA among Shahid Beheshti University Computer Science B.Sc. class