Milad Razavi-Mohseni

Johns Hopkins School of Medicine
Department of Biomedical Engineering
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Education

Ph.D. Candidate in Biomedical Engineering, Computational Biology (**GPA: 4.0**) Aug. 2019 - May 2025
Whiting School of Engineering & Johns Hopkins School of Medicine, Baltimore MD
Advisor: Professor Michael Beer

Modules: Sparse Representations in Computer Vision and Machine Learning: A+, Principles of Complex Networked Systems: A, Medical Courses: Immunology, Genetics, Hematology, Macromolecules, Cell Physiology, Metabolism

B.Sc. in Computer Engineering, Major: Software (GPA: **19.08/20**) Sep. 2015 - Jul. 2019
Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
Modules: Advanced Bioinformatics (Grad. Course): 20/20, Artificial Intelligence: 20/20, Data Structures & Introduction to Algorithms: 20/20, Engineering Probability & Statistics: 20/20, Design of Algorithms: 19.6/20, Web Programming: 20/20, Advanced Programming in Java: 20/20

Diploma in Mathematics and Physics Discipline Sep. 2010 - Jun. 2014
National Organization for Development of Exceptional Talents - Allame Helli 3 High School
GPA: 19.70/20

Research Interests

Regulatory Genomics

Computational Biology

Machine Learning

Gastric Cancer

Publications

Costa del Amo P., Debebe B., **Razavi-Mohseni M.**, Nakaoka S., Worth A., Wallace D., Beverley P., Macallan D., Asquith B. *The Rules of Human T Cell Fate in vivo*, Frontiers in Immunology, 2020, 11, 573.

Sheng T., Wei Ting Ho S., [...], **Razavi-Mohseni M** et al., *Integrative Epigenomic and High-Throughput Functional Enhancer Profiling Reveals Determinants of Enhancer Heterogeneity in Gastric Cancer*, 2021, Under Review in Genome Medicine

Awards and Honours

Awarded the **silver medal** in Nationwide Student Olympiad in Computer Engineering by **Iran Minister of Science, Research & Technology, Dr. Mansour Gholami** Sep. 2017

Annual Educational Award of **Iran National Elites Foundation** Feb. 2016 & Jan.2018

Top Student Award of Dept. of Computer Engineering, Sharif University May 2017, March 2018

Ranked 5^{th} among 145 Computer Engineering students of Sharif University Feb. 2018

Ranked **top 0.5%** among +190000 participants in Iran Nationwide University Entrance Exam Jun. 2014

Current Research Projects

Identification of Genetic Regulatory Pathways in Gastric Cancer Using Machine Learning, in Collaboration with National University of Singapore

Machine Learning Models for Transcription Start Site Annotation as a part of The Encyclopedia of DNA Elements (ENCODE) Consortium

Research Internship

Summer intern at Very Large Scale Computing Lab, EPFL Switzerland, under the supervision of Prof. James Larus Jul. - Sep. 2018

Summer intern at Department of Medicine, Imperial College London, under the supervision of Dr Becca Asquith Jul. - Sep. 2017

Undergraduate Teaching Experience

Teaching Assistant for Engineering Probability & Statistics, Dr A. Sharifi-Zarchi Autumn 2018

Teaching Assistant for Advanced Bioinformatics (Graduate Course), Dr A. Sharifi-Zarchi Spring 2018

Teaching Assistant (Tutor) for Theory of Languages and Automata, Dr M. Izadi Autumn 2017

Teaching Assistant for Numerical Methods, Dr M. Gharib Autumn & Spring 2016 - Spring 2017

Skills

Programming: Proficient in Java and Python; Competent in MATLAB, R and C++

Web Development: Competent in HTML, CSS, Bootstrap, JavaScript, ReactJS and Node.JS

Bioinformatics & Computational Biology Tools: Bedtools, EdgeR, MACS2 peak caller, HISAT2 aligner, GATK variant caller, FastQC, Gapped-kmer Support Vector Machines

Typesetting: Proficient in LaTeX

Other Activities

Member of the Graduate Student Association of Johns Hopkins School of Medicine

Member of Johns Hopkins Biomedical Engineering Ph.D. Council & the Program Representative

Sharif University Graduation Ceremony Event Manager

Best Content Creator, Johns Hopkins Edible Book Baking Competition