MALEK EBADI

Industrial Engineer Ph.D.
Currently searching for a job

• Operations Research, Operations Management, Decision making under uncertainty

• My academic research primarily concerns healthcare decision making

• If you are interested in my background and skills, please feel free to contact me or visit my personal **website**.

🎓 EDUCATION

2021

Sabanci University
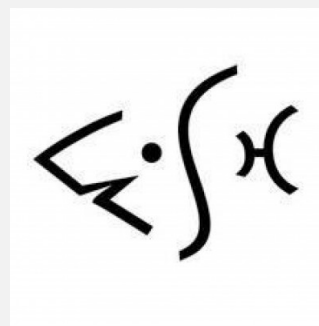Ph.D. in Industrial Engineering　　　　📍 Istanbul, Turkey

Thesis: Dyadic wavelet and its application in edge detection

2014

Bilkent University
M.Sc. in Industrial Engineering　　　　📍 Ankara, Turkey

Thesis: A multi-omics study for intra-individual divergence of the distributions between mRNA isoforms in mammals

2010

University of Tabriz
B.Sc. in Civil Engineering　　　　📍 Tabriz, Iran

💻 RESEARCH EXPERIENCE

2011 | 2014

Graduate Research Assistant
Beijing Institute of Genomics, Chinese Academy of Sciences
📍 Beijing, China

• Performed computational biology research towards understanding regulation of alternative splicing in human and mouse transcriptome.

• Found EGFR pathway related mutations, aimed to understand the impacts of cancer mutations on EGFR signaling pathway.

2015 | 2016

Bioinformatican
My Health Gene Technology Co., Ltd.　　　　📍 Beijing, China

• Investigated how cancer cells spread to other parts of the body at the single cell level.

2016 | 2018

Visiting Scientist
University of Alabama at Birmingham　　　　📍 AL, USA

• Investigated the role of mitochondria in development of cancer.

• Investigated the evolution of genome architecture and its role in important evolutionary events.

• Detected thrombotic thrombocytopenic purpura related mutations in mutiple patients' blood genome.

CONTACT INFO

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For more information, please visit my personal website under

🌐 ebadi-malek.me

 github.com/mebdix

 linkedin.com/in/malekebadi/

TECHNICAL SKILLS

Modeling and decision making in healthcare, Maintenance, crowdsourcing

Supply chain management, multiplayer decision making and contracting

Operations research and optimization methods, stochastic modeling, statistical analysis

Programming skills in MATLAB, R, and LaTeX

*This resume was made with the R package **pagedown**.*

Last updated on 2021-11-25.

PROGRAMMING SKILLS

Programming skills in MATLAB, R, and LaTeX

💼 PROFESSIONAL EXPERIENCE

2014

Data Scientist, intern
SupStat Inc. 📍 Beijing, China
• Taught R language to beginners.
• Wrote Shiny app demos.
• Converted statistical tutorials from SPSS to R language.

2015 | 2016

Bioinformatician
My Health Gene Technology Co., Ltd. 📍 Beijing, China
• Analyzed whole-exome sequencing data.
• Wrote analysis pipelines of ChIP-seq, single cell DNA-seq and single cell RNA-seq.
• Studied tumor metastasis and wrote research reports.
• Also did case studies to identify the genetic defect causing rare disease.

👨‍🏫 TEACHING EXPERIENCE

2014

Introduction to R Language for Beginners.
Instructor of R and Data Mining Training Courses at SupStat Inc.
📍 Beijing, China

2016 | 2017

Computational Biology and Bioinformatics.
Teaching assistant of GBS CB2-201 courses at UAB 📍 AL, USA

📄 SELECTED PUBLICATIONS AND POSTERS

2014

Genetic and epigenetic signals are found predictive to the distribution of intra-individual divergence of alternative splicing.
Poster for 2013 International Conference of Genomics
📍 Qingdao, China

Yu L, Chen B, Zhang Z.

2016

ESCRT-0 complex modulates Rbf mutant cell survival by regulating Rhomboid endosomal trafficking and EGFR signaling.
J Cell Sci. 2016 May 15;129(10):2075-84.

Sheng Z, **Yu L**, Zhang T, Pei X, Li X, Zhang Z and Du W.