

SeyedMohammad(Mat) Mirhosseini

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• LinkedIn

Education

- **Tarbiat Modares University**, Interdisciplinary science and Technology Faculty **2023 – Present (Last Semester)**
M.Sc. in Data Science, **Overall GPA: 3.76 / 4**
- **Allame Tabatabaei University**, Faculty of Statistics, Mathematics, and Computer **2018 – 2022**
B.Sc. in Statistics
- **Allame Helli (SAMPAD)**, Gifted Students Highschool, Mathematics Degree **2011 – 2016**

Research Interests

Data Science
Medical Imaging
Personalized treatment
Bioinformatics

Data Mining
Statistics
Data Management & Analytics
Genomics

Publication

- Authored a comprehensive book addressing all questions for the Statistics Master's entrance exam.
- Collaborating with Supervising professor in authoring a book on Health Information Systems.
- **Recently Submitted Manuscript for Publication**
SeyedMohammad Mirhosseini, Ali A. Safaei "Exploring GAN-Based Deep Learning Approaches in Medical Imaging"
- Currently Authoring a Paper
"A Comprehensive Data Standard for Organizing and Storing EEG Signals and Metadata in Clinical and Research Settings"

Experiences

- **NBML Biobank (IBMB)** **2024 - Present**
Collaborating with a team to design and establish a biobank for the National Brain Mapping Laboratory. Engaged in a multi-disciplinary team effort to conceptualize, develop, and implement a biobank aimed at supporting advanced brain mapping research.
- **Giving Lectures**
Delivered lectures and presentations on topics including open data, machine learning, GAN models, dashboards, and advanced techniques in data analysis and visualization.
- **Agah Market Research Company** **2022**
Utilized statistical methods to analyze market data and identify trends and patterns.
- **Projects**
Designing a DL model that uses watermelon images to predict sweetness by analyzing visual characteristics, enhancing the accuracy of taste prediction.
AI-Driven Analysis of Dementia Biomarkers Using Brain MRI: Assessing White Matter Alterations and Cortical Atrophy.
Design and Evaluation of an AI-Powered System for Predicting BPP Scores to Enhance Accuracy and Objectivity in Fetal Health Assessment.
- **M.Sc. Thesis** **In Progress**
Endometrial Cancer Diagnosis and Staging Based on Generative AI and Explainable Deep Models Using Multimodal Data.

Membership

- Association of Statistics at University** **2019 - 2021**
Providing classes and producing content related to statistics at university.
- Association of Data science at university** **2023 - Present**
Providing classes, lectures and producing content related to Data Science at university.
Holding exhibitions, scientific events and visiting scientific centers.

Selected Academic Courses

Some of B.Sc. grades

- **Computer basics and Programming** (19.25/20)
- **Basics of Economics** (19/20)
- **Mathematical Analysis 1** (19/20)
- **Probability 2** (18/20)
- **Statistical Quality Control** (19/20)
- **Design of Experiments 2** (19/20)

M.Sc. grades

- **Modern Database Systems** (20/20)
- **Data Mining** (20/20)
- **Machine learning** (15.8/20)
- **Foundation of Data Science** (17/20)
- **Data Visualization and Modeling** (18.5/20)
- **Data driven Computing** (17/20)
- **Deep learning** (15.25/20)
- **Spatial-Temporal Data Analysis** (17/20)
- **Seminar** (19/20)

Overall Master GPA: (3.76 / 4)

Teaching Experience

Teaching and academic advising

2019 - 2021

- Kanoon Farhangi Amuzesh (Qalam chi Institute)
- Harfe Akhar Institute
- Gilna Publications (Konkour asan ast Institute)

Teaching and academic planning for middle school and high school students to enhance their academic performance and prepare for university entrance exams.

Stock Market Instructor

2021

A tutorial for students of Allame Tabatabaei University to familiarize them with basics.

Awards and Achievements

Best Scientific Project in Biology

2016

Selected as the Best Scientific Project in Biology at Allame Helli High School(SAMPAD) for Gifted Students.

Iranian National Olympiad in Biology

2016

Selected as a qualified person at the first stage of "Iranian National Olympiad in Biology"

Languages, Skills and Certifications

Languages: **Persian** (main language), **German** (elementary level), **English** (C1) **IELTS Band. 7.0**

Listening 7.0

Reading 7.5

Writing 6.0

Speaking 6.5

- **Programming Languages:** C++, Python, R.

- **Computer software/ frameworks:**

Microsoft Office, Adobe Photoshop, GitHub, SPSS, Mango, EViews, MongoDB, Tableau, PowerBI and L^AT_EX.

The Data Scientist's Toolbox

Coursera/John Hopkins University

2022

R and SPSS Workshop

Allame Tabatabaei University

2020

International Computer Driver's License (ICDL)

Technical & Vocational Training Organization

2021

Recommendations

Foad Ghaderi, PhD

Associate Professor at the Faculty of Electrical & Computer Engineering, Tarbiat Modares University
fghaderi@modares.ac.ir

Ali Asghar Safaei, PhD (**Supervisor**)

Associate Professor at the Faculty of Medical Sciences, Tarbiat Modares University
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Mousa Golali Zadeh Lahi, PhD

Head of the Data Science Department, Tarbiat Modares University
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Mohsen Mohammadzadeh Darrodi, PhD

Professor at the Faculty of Mathematical Sciences, Tarbiat Modares University
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