

Soroush Dianaty, M.D.

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Tehran, Iran

SUMMARY

- Medical doctor with +5 years of research experience and several publications
 - Proficient in biomedical data analysis using IBM SPSS and Python
 - Working experience with Linux, Markup languages, and ICD-10 medical terminology
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RESEARCH INTERESTS

- Health Informatics
 - Learning Health Systems
 - Digital Health
 - AI in Healthcare
 - Digital Phenotyping
 - Electronic Health Records
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EDUCATION

Doctor of Medicine (MD)

22 Sep 2016 – 29 Jun 2024

Tehran Medical Sciences, Islamic Azad University (IAUTMU), Tehran, Iran

SKILLS

Research Skills

- Drafting and proofreading academic manuscripts and literature reviews
- Design and implementation of observational and experimental studies
- Reporting, interpreting, and publishing results
- Reference management software (Zotero, Endnote)

Computer Skills

- Python Programming Language (+3 years of experience)
- Linux Systems (+1 year of experience with Arch Linux, Ubuntu, and Debian)
- Proficient in Microsoft Office and Google Workspace
- Proficient in graphic design with Canva
- Collaborative coding experience using Google Colab
- Task management with Kanban system and Trello
- Knowledge management with Obsidian
- Basic version control using Git
- Learning R (in progress)

Data Analytics Skills

- Familiarity with machine learning pipelines
 - Data wrangling (numpy, pandas) and visualization (matplotlib)
 - IBM SPSS: Visualization, hypothesis testing, regression models, survival analysis
 - scikitlearn: Regression models, SVM, kNN, decision trees, random forests
 - tensorflow: basic sequential models (MLP, CNN, RNN)
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LANGUAGES

- Farsi (Persian): Native
- English: Fluent (Duolingo English Test result on 26th Nov 2023: 145/160)
- Spanish: Basic

RESEARCH EXPERIENCE

Research Assistant

Aug 2023 – May 2024

Computational Medicine Center, K. N. Toosi University of Technology, Tehran, Iran

- Head of an interdisciplinary team developing artificial neural networks for cardiovascular disease detection using demographic and photoplethysmography (PPG) patient data from the MIMIC-IV database
- Contributed +600 lines of Python code for data acquisition and preprocessing on Google Colab

Executive and Research Assistant

Mar 2022 - Mar 2023

Universal Scientific Education and Research Network (USERN), Tehran, Iran

- Engaged in regular knowledge exchange meetings with young researchers
- Event organization, content creation, graphic design, and coordinating logistics
- Developed a Python script for automated certificate issuance, resulting in a 60% time-saving

Research Assistant

May 2018 - Jan 2020

Department of Physiology, IAUTMU, Tehran, Iran

- Translated and/or proofread +50 scientific manuscripts
- Conducted data entry, ANOVA, non-parametric tests, chi-square test, and regression models in IBM SPSS
- Hands-on experience in lab animal handling, behavioral tests, dissection, and sample collection

CLINICAL EXPERIENCE

Medical Intern

Oct 2022 – May 2024

IAUTMU Hospital System

5,440 hours of hands-on hospital experience in internal medicine, surgery, infectious diseases, social medicine, emergency medicine, pediatrics, OB/GYN, psychiatry, urology, cardiology, dermatology

Clinical Clerkship

Oct 2020 - Oct 2022

IAUTMU Hospital System

2,169 hours of hospital observership in internal medicine, pediatrics, surgery, OB/GYN, psychiatry, urology, radiology, infectious diseases, orthopedics, ENT, neurology, cardiology, ophthalmology, dermatology

PUBLICATIONS

Journal Articles

1. Novel repair of acute Stanford type B aortic dissection using combined endovascular graft and transfemoral replacement of vascular plug [\[LINK\]](#)

M. Raiszadeh, A. Khosronejad, S. Dianaty, B. Ghorbani Yekta, *Catheter Cardiovasc Interv*, 2023 Dec; 102(7):1287-1290

2. Comparison of outcomes and costs of extracorporeal blood purification therapies in critically ill COVID-19 patients [\[LINK\]](#)

S. Dianaty, S. Khodadadi, R. Alimoghaddam, A. Mirzaei, *Ther Apher Dial*, 2023 Jun; 27(3):505-516

3. Reproductive status of male rat offspring following exposure to methamphetamine during intrauterine life: An experimental study [\[LINK\]](#)

Z. K.S Saraii, S. Dianaty, F. Rouhollah, N. Zare, B. Ghorbani Yekta, *Int J Reprod Biomed*, 2023 Mar; 21(2):175-184

4. Stress and menstrual disorders among Iranian medical students: A cross-sectional study [\[LINK\]](#)

R. Darabi, B. Ghoreshi, S. Dianaty, M. Sadat Motevalli, *South East Asia J. Med. Sci*, 2021 Sept; 5(2):8-15

5. Differential diagnosis of benign ovarian cysts using tumor markers in serum and cyst fluid [\[LINK\]](#)

L. Yaminifar, S. Dianaty, Z. Shahverdi, M. Yaraghi, B. Ghorbani Yekta, *South East Asia J. Med. Sci*, 2021; 5(2):1-7

Conference Posters

Effects of *Descurainia Sophia* products on urinary and renal function in: Congress of Invention, Patenting and Manufacturing of Experimental, Pharmaceutical and Clinical Products

25 Feb 2018, IAUTMU, Tehran, Iran [\[LINK\]](#)

Book Chapters

1. Introduction to digital psychiatry
 2. Apps and wearables for mental health
 3. The future advances in mental health
 4. The COVID-19 pandemic and mental health
- in T. A. Padder. *Practical Guide to Psychiatric Medications*. 2nd Ed. MTP Psychiatry, 2022 [\[LINK\]](#)

Translations

1. Essential Radiological Anatomy, 1st Edition, Heidary Publication, *In Publication*
2. Larsen's Human Embryology. Royan Pazhouh Publication, 2019 [\[LINK\]](#)