

# CURRICULUM VITAE

## ERFAN SADEGHI

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🌐 <https://scholar.google.com/citations?hl=en&user=g34Iz4YAAAAJ>

### WORK EXPERIENCE

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**Assistant Professor of Biostatistics** Feb 2024 - Present  
Shiraz University of Medical Sciences, Shiraz, Iran.

**Biostatistician and Research Methodology Consultant** Jan 2022 – Feb 2024  
Shiraz University of Medical Sciences, Shiraz, Iran.

### EDUCATION

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<b>PhD</b>	<b>Biostatistics</b> , Isfahan University of Medical Sciences. Iran.	2015 - 2021
<b>MS</b>	<b>Biostatistics</b> , Shiraz University of Medical Sciences, Iran.	2012 - 2015
<b>BS</b>	<b>Statistics</b> , Shiraz University, Iran.	2007 - 2012

### RESEARCH INTERESTS

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- Data Science & Machine Learning
- Systematic Reviews and Meta-Analysis
- Longitudinal Data Analysis
- Bayesian Methods

### RESEARCH EXPERIENCE

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- Machine Learning Algorithms
- Joint Modeling of Longitudinal and Survival Outcomes
- Multivariate Longitudinal Modeling
- Systematic Review
  - Risk of Bias (ROB & ROBINS)
  - Certainty Assessment (GRADE)
  - Search queries (Medline, Cochrane Central, EMBASE, Scopus & ISI)
- Meta-Analysis (Comparison, Dose-Response & Diagnostic)
- Network Meta-Analysis
- Bayesian Meta-Analysis
- Structural Models and Path Analysis

## SELECTED PUBLICATIONS

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### *Journal Articles*

Risk prediction of type 2 diabetes mellitus using machine learning techniques. (In Preparation)  
*Sadeghi et al.*

Antidepressants or Psychotherapies? A Network Meta-Analysis on effectiveness of treatments on irritable bowel syndrome. (In Preparation)  
*Sadeghi et al.*

Novel anthropometric indices for predicting type 2 diabetes mellitus.  
*Sadeghi E, Khodadadiyan A, Hosseini SA, Hosseini SM, Aminorroaya A, Amini M, Javadi S.*  
BMC Public Health.

Association of Lipid Profile with Type 2 Diabetes in First-Degree Relatives: A 14-Year Follow-Up Study in Iran. Diabetes.  
*Sadeghi E., Hosseini, S.M., Vossoughi, M., Aminorroaya, A. and Amini, M.*  
Metabolic Syndrome and Obesity: Targets and Therapy.

The effect of grape (*Vitis vinifera*) seed extract supplementation on flow-mediated dilation, blood pressure, and heart rate: A systematic review and meta-analysis of controlled trials with duration-and dose-response analysis.  
*Foshati S, Nouripour F, Sadeghi E, Amani R.*  
Pharmacological Research.

Association between animal protein sources and risk of neurodegenerative diseases: a systematic review and dose-response meta-analysis.  
*Talebi S, Asoudeh F, Naeini F, Sadeghi E, Travica N, Mohammadi H.*  
Nutrition Reviews.

Whey protein supplementation with or without vitamin D on sarcopenia-related measures: a systematic review and meta-analysis.  
*Nasimi N, Sohrabi Z, Nunes EA, Sadeghi E, Jamshidi S, Gholami Z, Akbarzadeh M, Faghieh S, Akhlaghi M, Phillips SM.*  
Advances in Nutrition.

Dietary fat intake with risk of gestational diabetes mellitus and preeclampsia: a systematic review and meta-analysis of prospective cohort studies.  
*Talebi S, Zeraattalab-Motlagh S, Rahimlou M, Sadeghi E, Rashedi MH, Ghoreishy SM, Mohammadi H.*  
Nutrition Reviews.

Adherence to the vegetarian diet may increase the risk of depression: a systematic review and meta-analysis of observational studies.

*Fazelian, S., **Sadeghi E.**, Firouzi, S. and Haghighatdoost, F.*  
*Nutrition Reviews.*

Maternal psychological stress during pregnancy and newborn telomere length: a systematic review and meta-analysis.

*Moshfeghinia R, Torabi A, Mostafavi S, Rahbar S, Moradi MS, **Sadeghi E**, Mootz J, Vardanjani HM.*  
*BMC psychiatry.*

Prebiotics for the prevention of hyperbilirubinaemia in neonates.

*Armanian, A.M., Jahanfar, S., Feizi, A., Salehimehr, N., Molaeinezhad, M. and **Sadeghi E.***  
*Cochrane Database of Systematic Reviews.*

Early vs delayed enteral nutrition or parenteral nutrition in hospitalized patients: An umbrella review of systematic reviews and meta-analyses of randomized trials

*Talebi S, Zeraattalab-Motlagh S, Vajdi M, Nielsen SM, Talebi A, Ghavami A, Moradi S, **Sadeghi E**, Ranjbar M, Habibi S, Sadeghi S.*  
*Nutrition in Clinical Practice.*

Are resting metabolic rate and clinical symptoms affected by variation of serum thyroid stimulating hormone levels within the normal range in healthy and women with hypothyroidism? A case-control study.

*Harsini AR, Mohajeri-Tehrani MR, Sajjadi-Jazi SM, Naeini F, Valisoltani N, **Sadeghi E**, Mohammadi H, Hosseini S.*  
*Clinical Nutrition ESPEN.*

A Systematic Review and Meta-analysis on the Effect of Flavonoids on Insulin-like Growth Factor and Insulin-like Growth Factor Binding Protein and Incidence of Breast Cancer.

*Nasr S, Nakisa A, Jandaghian S, Kouhi M, **Sadeghi E**, Varshosaz J.*  
*Current Medicinal Chemistry.*

Association of disease-modifying therapies with COVID-19 susceptibility and severity in patients with multiple sclerosis: a systematic review and network meta-analysis.

*Barzegar M, Houshi S, **Sadeghi E**, Hashemi M, Pishgahi G, Bagherieh S, Afshari-Safavi A, Mirmosayyeb O, Shaygannejad V, Zabeti A.*  
*Multiple sclerosis international.*

The impact of malnutrition on mortality and complications of hematopoietic stem cell transplantation in patients with acute leukemia.

*Khosroshahi RA, Barkhordar M, Talebi S, Imani H, **Sadeghi E**, Mousavi SA, Mohammadi H. Clinical Nutrition.*

Comparative Impact of Various Exercises on Circulating Irisin in Healthy Subjects: A Systematic Review and Network Meta-Analysis

*F Kazeminasab, **Sadeghi E**, A Afshari-Safavi  
Oxidative Medicine and Cellular Longevity.*

Trace element status and hypothyroidism: A systematic review and meta-analysis.

*Talebi, S., Ghaedi, E., **Sadeghi E.**, Mohammadi, H., Hadi, A., Clark, C.C. and Askari, G.  
Biological trace element research.*

### ***Conference Articles***

[\*\*Sadeghi, E.\*\*, Jafari-Koshki, T., Hosseini, SM., Sarrafzadegan, N., and Rabiei, K “Air pollution and cardiovascular emergency visits in Isfahan, Iran, 2011: a case-crossover analysis,” International Society for Environmental Epidemiology \(ISEE\) annual meeting, Sep. 1-4, 2016, Abstract Number: P2-119.](#)

## TEACHING EXPERIENCE

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**Shiraz University of Medical Sciences, Iran** Fall 2024  
**Lecturer (Full-time)**, Department of Biostatistics

- Introduction to Categorical Data Analysis: Teaching Master's Students in Biostatistics

**Shiraz University of Medical Sciences, Iran** Oct 2022  
**5 hours Workshop**, Research Consultation Center (RCC)

- Structural Equation Modeling (SEM) Using AMOS

**Shiraz University of Medical Sciences, Iran** Sep 2022  
**4 hours Workshop**, Research Consultation Center (RCC)

- Research Methodology

**Shiraz University of Medical Sciences, Iran** Aug 2022  
**8 hours Workshop**, Research Consultation Center (RCC)

- Introduction to Systematic Review and Meta-Analysis

**Shiraz University of Medical Sciences, Iran** May 2022  
**4 hours Workshop**, Research Consultation Center (RCC)

- Advanced Statistical Analysis using SPSS

**Shiraz University of Medical Sciences, Iran** May 2022  
**4 hours Workshop**, Research Consultation Center (RCC)

- Introduction to Statistical Analysis using SPSS

**Isfahan University of Medical Sciences, Iran** Sep 2015 to Jan 2020  
**Lecturer (Part-time)**, Department of Epidemiology and Biostatistics

- Introduction to Biostatistics and Research Methodology: Teaching Undergraduate Students of Medical Sciences Averaging 30 Students per Semester.

**Isfahan University of Medical Sciences, Iran** Mar 2018 & Feb 2019  
**2 hours Lecture**, Department of Epidemiology and Biostatistics

- Introduction to Meta-Analysis for Graduate Students of Epidemiology and Biostatistics.

**Ilam University of Medical Sciences, Iran** Aug 2017  
**16 hours Workshop**: Introduction to Systematic Reviews and Meta-Analysis for Graduate Students of Medical Sciences.

**Shiraz University of Medical Sciences, Iran** Sep 2014 - Jan 2015  
**Teaching Assistant**, Department of Biostatistics

- Introduction to Biostatistics: MPH Students

## PROFESSIONAL TRAINING

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<b>Workshop:</b> Programming and Data Analysis in Python By Shiraz University of Medical Sciences, Iran	July 2023 – Dec 2023
<b>Workshop:</b> Data Mining using MATLAB By Shiraz University of Medical Sciences, Iran	Dec 2022
<b>Workshop:</b> An Introduction to Clustering as An Unsupervised Learning Approach By University of Mazandaran, Iran	Sep 2022
<b>Workshop:</b> Machine Learning Techniques and Tools By Kerman University of Medical Sciences, Iran	Feb 2022
<b>Workshop:</b> Guidance for Systematic Review Authors on How to Consider the Individual and The Population Perspective By Cochrane Work Review Group	Sep 2021
<b>Workshop:</b> Dose-Response Meta-Analysis By Cochrane Iran Associate Centre	Sep 2021
<b>Workshop:</b> Cochrane Systematic Review and Meta-Analysis By Isfahan University of Medical Sciences, Iran	May 2015

## PROFESSIONAL SERVICES

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### Peer-Reviewed Articles for:

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|---|----------------|
| • Iranian Journal of Medical Sciences<br>By Shiraz University of Medical Sciences           | 2022 - Present |
| • Galen Medical Journal<br>By Fasa University of Medical Sciences                           | 2013 - 2021    |
| • Journal of Research in Medical Sciences<br>By Isfahan University of Medical Sciences      | 2017 - 2019    |
| • International Journal of Preventive Medicine<br>By Isfahan University of Medical Sciences | 2015 - 2017    |

## MEMBERSHIP

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Iran's National Elites Foundation (INEF)	2019 - Present
Cochrane Collaboration	2018 - Present
Iranian Statistical Society	2015 - Present

## LANGUAGES

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**Persian:** Native

**English:** Advanced

**Italian:** Basic

## COMPUTER SKILLS

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**Programming:** R, BUGS, MATLAB, and Python.

**Applications:** STATA, SPSS, AMOS, Minitab, Medcalc, GPower, GraphPad Prism, Comprehensive Meta-Analysis (CMA), and RevMan.

**OFFICE:** Word, Excel, PowerPoint.