Arian Hashemzadeh Amirkhizi

PERSONAL DATA

DATE OF BIRTH: 5 August 2000 PHONE: +1(416)7206596

EMAIL: arian.hashemzadeh@mail.utoronto.ca

RESEARCH INTERESTS

Graphical Models, Causal Inference, Bayesian Statistics, Probabilistic Modeling

EDUCATION

Sep 2023 - Present | University of Toronto, Toronto, Canada

Ph.D. in Statistics

Advisors: Dr. Piotr Zwiernik and Dr. Elena Tuzhilina

Sep 2018 - July 2023 | Sharif University of Technology, Tehran, Iran

B.Sc in Applied Mathematics Cumulative GPA: 16.08/20 Last two years: 17.52/20

Sep 2014 - Jun 2018 | Allame Helli High School, Affiliated with the National Organization for

Development of Exceptional Talents (NODET), Tehran, Iran

Diploma in Mathematics and Physics Discipline

GPA: 18.8/20

RESEARCH EXPERIENCE

JULY 2021 - JAN 2023 | Undergraduate research under the supervision of Dr. Kayvan Sadeghi

from University College London and Dr. Javad Ebrahimi from Sharif

University of Technology, B.Sc. thesis

A constraint-based structure learning algorithm based on the conditions of faithfulness

JAN 2022 - DEC 2022 | Undergraduate research under the supervision of Dr. Mona Azadkia

from ETH Zürich

Estimating total effect via covariate adjustment in causal structures

MAY 2022 - DEC 2023 | Research assistant visitor at Bayesian Al lab at Queen Mary University

of London under the supervision of Dr. Anthony Constantinou

A study on the effects of lockdowns on the spread of covid-19 in United Kingdom

PUBLICATIONS

Open problems in causal structure learning: A case study of COVID-19 in the UK Authors: AC Constantinou, R Mbuvha, NK Kitson, K Chobtham, Y Liu, A Hashemzadeh, P Nanavati

Journal: Expert Systems with Applications 234, 121069

Honors

2018 | Ranked top 0.5% (240 among 50,000 students) in district 3 of the National University Entrance Exam

2018 | Awarded Full Scholarship, Undergraduate Program at Sharif University

Ranked 35 among more than 2,000 participants in Graduate University Entrance Examination for mathematical sciences

Ranked 16 among more than 2,100 participants in Graduate University Entrance Examination for mathematical sciences

RELEVANT COURSEWORK

Regression Analysis (19.4/20)
Stochastic Processes (18.1/20)
Systems Dynamics (18.3/20) (B.Sc/M.Sc course)
Game Theory (19.5/20) (M.Sc course)
Information Theory (17.3/20) (B.Sc/M.Sc course)
Coding Theory (16.5/20) (M.Sc course)
Statistics (18.1/10)
Probability (18.2/20)
Algebra 1 (19.4/20)
Linear Algebra (20/20)
Math Writing (20/20)

TEACHING ASSISTANT

WINTER 2024	STA238 - Probability, Statistics and Data Analysis II Instructor: Dr. Michael Moon
FALL 2023	STA302 - Methods of Data Analysis I Instructor: Dr. Katherine Daignault
FALL 2022	Statistics And Probability For Engineering (Head TA) Instructor: Dr. Mehri Oghbaie
FALL 2021	Probability And Its Applications Instructor: Dr. Hamidreza Fanai
FALL 2021	Statistics And Its Applications Instructor: Dr. Javad Ebrahimi
SPRING 2021	Stochastic Processes Instructor: Dr. Milad Barzegar
SPRING 2021	Graphical Models (M.Sc/Ph.D course) Instructor: Dr. Mehdi Molkaraie and Dr. Arash Amini
SPRING 2020	Statistics And Probability For Engineering Instructor: Dr. Naeemeh Omidvar
SPRING 2020	Statistics And Probability For Engineering Instructor: Dr. Sayyed Mohammad Karbasi
FALL 2020	Probability And Its Applications Instructor: Dr. Milad Barzegar
TEACHING EXPERIENCE	

TEACHING EXPERIENCE

2019 - 2021	Private tutor of high school mathematics preparing senior high school students for Persian National University Entrance Exam
2021 - 2023	Private tutor of junior high students preparing them to take the Cambridge IGCSE Mathematics test

COMPUTER SKILLS

Python, Java, R, \LaTeX

LANGUAGES

PERSIAN: Native
ENGLISH: TOEFL: 104/120
FRENCH: Conversational Level