Tural Sadigov

U.S. Permanent Resident

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turalsadigov

tural-sadigov

About me

Visiting Assistant Professor of Mathematics and Statistics with Ph.D. in Applied Mathematics and 7+ years experience in developing and teaching both mathematics and data-related courses such as various levels of Statistics, Machine Learning, Probability and Time Series Analysis (on Coursera) and mentoring undergraduate Machine Learning projects in Statistical Methods in Machine Learning course. Using R and RStudio extensively in all data-related course. Creator of R package stats2data (`https://github.com/turalsadigov/stats2data`) for Statistical Modeling and Applciations course at Hamilton College. Skills: Mathematics, Statistics, Machine Learning, Python, R, SQLite, Quarto, R Markdwon, LaTeX

Current and Past Positions

2020 -	Visiting Assistant Professor Clinton, NY	Hamilton College
2017 -	Coursera Instructor Online	Coursera
2019 - 20	Statistics Lecturer Clinton, NY	Hamilton College
2015 - 20	Applied Mathematics Lecturer Utica, NY	SUNY Polytechnic Institute
2019 - 20	Mathematics Service Coordinator Utica, NY	SUNY Polytechnic Institute
2008 - 15	Associate Instructor Bloomington, IN	Indiana University

Education

2008 - 15	Ph.D and MA, Applied Mathematics Bloomington, IN	Indiana University
2003 - 08	BS, Mathematics Istanbul, Turkey	Boğaziçi University

Data Science Skills

- Supervised/Unsupervised Machine Learning
- Data Wrangling, Cleaning, Preprocessing & Feature Engineering
- Time Series Analysis: ARIMA, SARIMA
- Statistical Inference
- Data Visualization
- Communication, reporting and dashboard: Quarto, R Markdown, Jupyter Notebook, R Shiny. Sample R Shiny web app: Link to the app

Research Experience

2020, 21	Summer Research Associate Rome, NY	Air Force Research Lab Griffis Institute

Awards/Grants

2020, 21	Dean's Pedagogical Development Award (twice)	Hamilton College
2020, 21	Summer research grants (twice)	AFRL/GI
2018-19	SGU Award for Excellence in Teaching	SUNY Poly
2003	Bronze Medal	International Mathematical Olympiad
2000-03	Gold Medal (four times)	Azerbaijan Mathematical Olympiad

Publications

1. Safety Prediction Model for Reinforced Highway Slope using a Machine Learning Method, 2020
2. A determining form for the subcritical surface quasi-geostrophic equation, 2019
3. Determining form and data assimilation algorithm for weakly damped and driven Korteweg-de Vries equaton- Fourier modes case, 2017
4. A determining form for the damped driven Nonlinear Schrödinger Equation- Fourier modes case, 2015

Available at request

- Mentored Machine Learning projects
- Invited data-related talks
- References from colleagues and co-authors