

# TURAL SADIGOV

Statistician, Mathematician and aspiring Data Scientist



## PROFESSIONAL SUMMARY

### Bio

- Visiting Assistant Professor of Mathematics and Statistics with Ph.D. in Applied Mathematics and 5+ years experience in teaching data-related courses such as various levels of Statistics, Machine Learning, Probability and Time Series Analysis, and mentoring undergraduate Machine Learning projects.



## CURRENT POSITIONS

present  
|  
2020

### Visiting Assistant Professor of Mathematics and Statistics

Hamilton College

📍 Clinton, NY

- Teaching data science courses including Statistical Modeling and Its Applications and Statistical Methods in Machine Learning. Also supervising students' machine learning projects.
- Also teaching other mathematics courses such as all levels of calculus

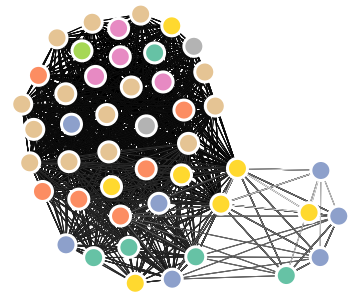
present  
|  
2017

### Coursera Instructor

Coursera

📍 Online

- Co-teaching Practical Time Series Analysis with William Thistleton



## PREVIOUS POSITIONS

2020  
|  
2019

### Lecturer of Statistics

Hamilton College

📍 Clinton, NY

- Teaching Statistical Analysis of Data

2020  
|  
2015

### Lecture of Applied Mathematics

SUNY Polytechnic Institute

📍 Utica, NY

- Teaching data science, statistics and applied mathematics courses
- Applied Probability, Regression, Time Series Analysis, Linear Algebra, Calculus, Differential Equations
- Both undergraduate and graduate level courses

2020  
|  
2019

### Mathematics Service Coordinator

SUNY Polytechnic Institute

📍 Utica, NY

- Organizing 100 and 200 level mathematics courses and supervising instructors teaching them

## CONTACT

✉ [tsadigov@hamilton.edu](mailto:tsadigov@hamilton.edu)

🔗 [https://github.com](https://github.com/turalsadigov)

[/turalsadigov](https://turalsadigov.netlify.app/)

🔗 <https://tsadigov.netlify.app/>

in [https://www.linkedin.com](https://www.linkedin.com/in/tural-sadigov-49ba7418/)

[/in/tural-sadigov-49ba7418/](https://www.linkedin.com/in/tural-sadigov-49ba7418/)

## LANGUAGE SKILLS

R/R Studio

R Markdown/Quarto

R Tidyverse

R Tidymodels

R Shiny

Python

Last updated on 2022-08-07.

2015  
|  
2008

### **Associate Instructor**

Indiana University

📍 Bloomington, IN

- Teaching Assistant
- 100 and 200 level mathematics courses



## **EDUCATION**

2015  
|  
2008

### **PhD., Applied Mathematics & M.A., Mathematics**

Indiana University

📍 Bloomington, IN

- Focused on data assimilation and determining forms for semidissipative dispersive systems
- Associate Instructor

2008  
|  
2003

### **B.S., Mathematics**

Boğaziçi University

📍 Istanbul, Turkey

- Mathematics



## **DATA SCIENCE SKILLS**

### **Supervised Learning**

- Supervised Learning: Multiple Linear Regression, Multiple Logistic Regression, Polynomial Regression, Regularized models, KNN regression and classification, Tree Based Methods (Decision Trees, Random Forest, Boosted Trees), Support Vector Machines, Naive Bayes Classifier;

### **Unsupervised Learning**

- k-means clustering, Hierarchical clustering , PCA

### **Data cleaning & Feature Engineering**

- Numerical and categorical variable imputation, variable transformation, filtering

### **Time Series Analysis**

- ARIMA, SARIMA



## RESEARCH EXPERIENCE

- 2021 **Summer Research Associate**  
Air Force Research Lab Griffis Institute 📍 Rome, NY
- Worked on theoretical neural network solutions of dispersive equations
  - Supervised a student who worked with me
- 2020 **Summer Research Associate**  
Air Force Research Lab Griffis Institute 📍 Rome, NY
- Worked on numerical algorithms to solve partial differential equations



## AWARDS/GRANTS

- 2022  
|  
2021 **Hamilton College**  
Dean's Pedagogical Development Award (twice) 📍 Clinton, NY
- 2021  
|  
2020 **Air Force Reserach Lab (AFRL/RI)**  
Summer research grants (twice) 📍 Rome, NY
- 2019  
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2018 **SUNY Polytechnic Institue**  
SGU Award for Excellence in Teaching 📍 Utica, NY
- 2017 **Coursera**  
Teaching Grant (Practical Time Series Analysis) 📍 Online
- 2003 **IMO 2003**  
Bronze medal 📍 Tokyo, Japan
- 2003  
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2000 **Ministry of Science and Education Republic of Azerbaijan**  
Four Gold medals 📍 Baku, Azerbaijan
- 2002 **IMO 2002**  
Participation 📍 Glasgow, Scotland



## MENTORED MACHINE LEARNING PROJECTS

Available at request.



## PUBLICATIONS, INVITED TALKS, REFERENCES

Available at request.