



# Tural Sadigov

## Math and Stats

October 2022

- Hamilton College, 198 College Hill Rd, Clinton, NY
- +1 (315) 859 - 4551
- [turalasadigov.github.io/](https://turalasadigov.github.io/)
- [tsadigov@hamilton.edu](mailto:tsadigov@hamilton.edu)
- [turalasadigov](https://github.com/turalasadigov)
- [tural-sadigov](https://www.linkedin.com/in/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 for one of the statistics courses. Skills: Mathematics, Statistics, Machine Learning, Python, R, (Some) SQL, 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, feature engineering)
- Time Series Analysis (ARIMA, SARIMA)
- Statistical Inference
- Data Visualizations
- Communication: Quarto, R Markdown, R Shiny, Teaching
- Sample R Shiny web app: [Link to the app](#)

## Research Experience

2020, 21	Summer Research Associate Rome, NY	Air Force Research Lab Griffis Institute
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## 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	IMO
2000-03	Gold Medal (four times)	Azerbaijan Mathematical Olympiads

## 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 ML projects
- Invited data-related Talks