


# Hossein Noorazar

Mathematician

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 <https://hnoorazar.com/>

## Education

### Ph.D. Mathematics

2011 – 2017

Washington State University  
Pullman, WA, USA

Major: Applied Mathematics

Advisors: Kevin Vixie and Matthew Sot-tile

### M.S. Mathematics

2011 – 2014

Washington State University  
Pullman, WA, USA

Major: Applied Mathematics

Advisor: David S. Watkins

## Social Network


 [linkedin.com/in/hnoorazar](https://www.linkedin.com/in/hnoorazar)

 [github.com/HNoorazar/](https://github.com/HNoorazar/)

## Hard Skills

### Computer Technology



 Python/R/Matlab/JavaScript

 SQL


## Coursera

 Machine Learning


 Deep Learning

 SQL for Data Science


## Languages

 English



 Persian



 Azerbaijani



## Summary

A resourceful mathematician, researcher, and programmer with an interest in applying mathematical techniques to a variety of applications. I am interested in several (and closely related) fields; image processing, remote sensing, machine learning, data science, and scientific computing. Most recently I have been working on developing models for a variety of agricultural applications for decision support.

## Working Experience

2022 – Present

**Co-founder and Researcher**

[iSciLabs](#)

2017 – Present

**Postdoctoral Research Associate**

Washington State University

- Currently developing machine learning pipelines for crop classification, soil quality assessment using satellite imagery. The satellite data for this project is processed using the Google Earth Engine and Microsoft Azure infrastructures. The machine learning pipeline is deployed on both Microsoft Azure cloud and Linux based cloud of Washington State University.
- Completed several projects. The models developed for these projects are deployed on Linux-based high-performance computing structures. The web interface of the decision-tool systems, developed by R-Shiny, are deployed on [Washington State University server](#).

2015 – 2018

**Research and Fun**

Freelance

- Prototyping Portfolio Diversification for [RiskSmith](#); a FinTech Company
- Prototyping for automatic detection of rust spots in the images.
- Cleaning of patients data from national database of the US for Oregon Health & Science University Hospital projects.

2011 – 2017

**Teaching**

Washington State University

- Sole instructor for non-math-major students (30 - 120 students); linear algebra, calculus, etc.
- Lab instructor; running labs, grading exams, etc.

## Public Service

### Conference Organization

2017

**Committee member**

Washington State University

Committee member of second annual Data Science Days

2017

**Committee member**

Washington State University

Organizing committee member of AMS Sectional Meeting.

2016

**Committee member**

Washington State University

Committee member of first annual Data Science Days, Fund raising, running website, logistics.

2015 and 2016

**Committee member**

Washington State University

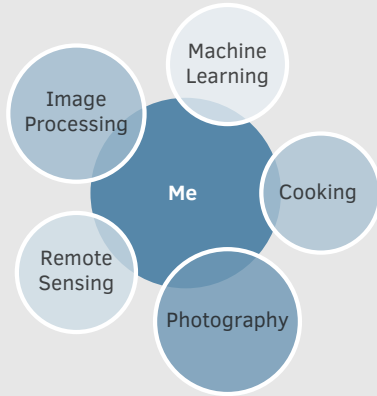
Committee member of Distinguished Speaker Series in Data Science; Running and maintaining website and logistics ([math.wsu.edu/DataScience](https://math.wsu.edu/DataScience))

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## About Me

My research interests are shown in the diagram below. I like anything related to analysis. If I am not working, I am cooking or shooting photos.



## Publications

- 2020 **The risk for insufficient chill accumulation: a climate change perspective for apple and cherry production in the United States**  
Hossein Noorazar, Lee Kalcsits, Vincent Jones, Matthew Jones, Kirti Rajagopalan  
[Climatic Change](#) - [pre-print on bioRxiv](#).
- 2020 **Data-driven Operation of the Resilient Electric Grid: A Case of COVID-19**  
Hossein Noorazar, A. K. Srivastava, S. Pannala, K. S. Sajan  
[The Journal of Engineering](#) - [pre-print on arXiv](#).
- 2019 **From classical to modern opinion dynamics**  
Hossein Noorazar, Kevin Vixie, Arghavan Talebanpour and Yufeng Hu  
[International Journal of Modern Physics C](#) – [pre-print on arXiv](#).
- 2018 **An energy-based interaction model for population opinion dynamics with topic coupling**  
Hossein Noorazar, Matthew J. Sottile and Kevin R. Vixie  
[International Journal of Modern Physics C](#) – [pre-print on arXiv](#).