Parsa Khayatzadeh | Resume

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Ph.D. Student in Systems Engineering, Cornell University: Ithaca, NY
Supervisior: Prof. Michael Charles
Research Area: Computational Sustainability parsakhay.com/research
Methods and Skils: IAMs, Human-Earth Systems, Julia, R

Summary

I have started my Ph.D. at Cornell as a Systems Engineering student under the supervision of Prof. Michael Charles. I am interested in design aspect of human-earth models. I link different modules of the system to provide a narrative of plausible futures of the world. My current research focuses on the downscaled study of IAMs aimed to serve tribal governed communities and my case study is Navajo Nation.

Education

Ph.D. in Systems Engineering - Ithaca, NY — Aug. 2023 - Present

- Area: Computational Sustainability
- Advisor: Prof. Michael Charles

B.Sc. in Industrial Engineering - Tehran, Iran — Aug. 2018 - Jul. 2022

- Thesis: PV vs. CSP: a solar renewable technology review and electricity cost analysis based on improvised LCOE
- Course Highlights: Operations Research - System Analysis - Engineering Statistics - Fundamentals of Probability - Microeconomic Theory - Macroeconomics - Statistical Quality Control - Decision Analysis

Academic Experience

Research Assistant - Cornell University — Aug. 2023 - Present

- Professor: Michael Charles
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Teaching Assistant - Cornell University — Aug. 2024 - Dec. 2024

- Professor: Natalie Cápiro
- Engineering Processes for Environmental Sustainability

Teaching Assistant - University of Tehran — Aug. 2019 - Jul. 2022

- Courses: Simulation Principles - Probability and Applications - Microeconomics - Macroeconomics - System Analytics

Summer Research Intern - UT's Research Institute for Energy Management and Planning — Aug. 2021 - Jul. 2022

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Extracurricular Activities

University of Tehran - — Aug. 2019 - Jul. 2021

- Board Member of Scientific Association of Industrial Engineering at University of Tehran (UTIESA)
- Managing Editor of Fankaav Stident Journal
- Award: Harekat, University's best student journal in 2022