

# PARSA KHAYATZADEH | RESUME

pk525@cornell.edu

**Position:** Ph.D. Student in Systems Engineering, Cornell University

Ithaca, NY

**Supervisor:** Prof. Michael Charles

**Research Area:** Computational Sustainability

[parsakhay.com/research](https://parsakhay.com/research)

**Research Interest:** IAMs, Human-Earth Systems, Shared Socioeconomic Pathways, Sustainable Computing

## 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

- Advisor: Prof. Hossein Iranmanesh
- Final Project: 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

- Advisor: Michael Charles
- Downscaled Integrated Assessment models

**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

- A feasibility study of solar technologies with a focus on CSP technologies | Supervisor: Dr. Hossein Iranmanesh

## Extracurricular Activities

**Scientific Association of Industrial Engineering at University of Tehran** - UTIESA

Aug. 2019 - Jul. 2021

- Board Member
- Managing Editor of Fankaav Student Journal
- Award: Harekat, University's best student journal in 2022