

Erfan Hosseini | Curriculum Vitae

Princeton University-Civil and Environmental Engineering Department

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RESEARCH INTERESTS

- Environmental Fluid Mechanics, Renewable Energy, Urban Climatology & Hydrology, Green House Gas Reduction, Building Energy Saving Strategies, Innovative Solar Energy Generation

EDUCATION

- Ph.D. in Civil and Environmental Engineering
- Princeton University Sep. 2022 – present
Princeton, NJ
- B.Sc. in Civil Engineering
- Sharif University of Technology Sep. 2016 – Jun. 2021
Tehran, Iran
- Diploma in Physics and Mathematics
- Allame Tabatabaee High School Sep. 2012 – Jun. 2016
Tehran, Iran

RESEARCH EXPERIENCE

- Environmental Fluid Mechanics Lab at Princeton
Graduate researcher. Advisor: Elie Bou-Zeid Sep. 2022 – present
Princeton, NJ

HONORS AND AWARDS

- Outstanding research presentation award at Andlinger's 2023 annual meeting
- Andlinger Center Oct. 2023
Princeton, NJ
- Worley research award
- Princeton University Jun. 2023
Princeton, NJ
- First-year fellowship in science and engineering
- Princeton University Aug. 2022
Princeton, NJ
- Recognized as a talented and active student by the National Organization for Development of Exceptional Talents
- Sharif University of Technology Aug. 2016
Tehran, Iran
- Math and Physics Olympiad
- Allame Tabatabaee High School May. 2015
Tehran, Iran

TEACHING EXPERIENCE

- Assistant Instructor in Environmental Fluid Mechanics
- Princeton University Fall 2023
Princeton, NJ
- Assistant Instructor in Hydrology
- Sharif University of Technology Fall 2019
Tehran, Iran
- Assistant Instructor in Statics
- Sharif University of Technology Fall 2018
Tehran, Iran
- Assistant Instructor in Statics
- Sharif University of Technology Spring 2018
Tehran, Iran

ACADEMIC AND PROFESSIONAL ACTIVITIES

- Review activities
Environmental Engineering Science Journal

CONFERENCES and PRESENTATIONS

- *Design and Optimization of Agrivoltaic Farms*. American Geophysical Union (AGU) Fall Meeting (poster), 2023.
- *Food security under Climate Change and the impact of food choices on Climate Change*, Sharif University, 2020.
- *Effects of pavement type and land use on the global temperature*, Sharif University, 2019.
- *Capacity Maximization Scheme with Connected and Automated Vehicles (CAVs)*, Sharif University, 2019.