

HESAM NAGHASH

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EDUCATION

2008 - 2012	Shahid Beheshti highschool Diploma in mathematics and physics
2012 - 2017	University of Tehran Bachelor of Science in Mechanical Engineering
2017 - 2020	Politecnico di Milano Master of Science in Energy Engineering 105/110

PROJECTS

- **M.Sc final thesis - Politecnico di Milano**
Modeling hydrogen production and infrastructure pathways in WITCH integrated assessment model for implementing in transportation and energy sector through different scenarios of climate change mitigation
- **Course project - Advanced thermodynamic**
Shock analysis on the country's energy and transactions condition using input/output method
- **Course project - Energy & Climate Change Modeling & Scenarios**
Endogenizing land emissions into DICE model to observe the results in economy, emissions and optimized scenario
- **B.Sc final thesis - University of Tehran**
Experimental research on enhanced superhydrophobic surfaces and its effect on heat transfer and corrosion properties to be used in shell & tube heat exchangers
- **Airfoil modeling - University of Tehran**
Modeling and Analysing airfoils and stall phenomenon using Fluent Ansys

EXPERIENCE

2015 - 2017	University of Tehran Teacher Assistant Calculus I Heat transfer II Engineerin mathematics
2016 - 2017	National Iranian South Oil Company Internship program Participating in a project associated with repairing and maintenance of turbines
2019 - 2020	RFF/CMCC Visiting student Visiting student at RFF/CMCC European Institute on Economics and Environment for Master of Science final thesis
2020 -	RFF/CMCC Scientist/Researcher Post Degree Researcher at RFF/CMCC European Institute on Economics and Environment

SKILLS

- Matlab
- Fluent Ansys

- Phyton
- GAMS
- Techplot
- Microsoft office
- LaTeX
- R

ACHIEVEMENTS & AWARDS

- Semifinalist of the national mathematics and physics olympiad (2009-2010)
- Ranked 127th in Iranian National University Entrance Exam (2012)
- Exempted from tuition to study undergraduate as well as graduate program

LANGUAGE

- Persian (Native)
- English (TOEFL:107)
- Italian (Basic)

INTERESTS

- Energy modeling
- Energy economics
- Renewable and green energy
- Smart grid
- Alternative fuels & hydrogen
- Energy & climate change

REFERENCE

- **Massimo Tavoni - "Politecnico di Milano / EIEE"**
Full professor / Director of EIEE
Massimo.tavoni@polimi.it
- **Paolo Silva - "Politecnico di Milano"**
Associate professor
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- **Emanuela Colombo - "Politecnico di Milano / FEEM"**
Full professor / Program scientific coordinator
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