Hesam Naghash

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EDUCATION

Delft University of Technology
2022-
Doctor of Philosophy

Politecnico di Milano
2017-2020
Master of Science in Energy Engineering
105/110

University of Tehran
2012-2017
Bachelor of Science in Mechanical Engineering

National Organization for Development of Exceptional Talents
2008-2012
Diploma in Mathematics and Physics

EXPERIENCE

Delft University of Technology *2022 February -*
PhD employee
PhD candidate in TU Delft on a techno-economical investigation of pathways to sustainable shipping

RFF/CMCC *2020 September - 2022 January*
Scientist/Researcher
Post degree researcher at RFF/CMCC European Institute on Economics and Environment

RFF/CMCC *2019 October - 2020 June*
Visiting student
Visiting student at RFF/CMCC European Institute on Economics and Environment

University of Tehran *2015 October - 2017 November*
Teacher Assistant
Calculus I
Heat Transfer II
Engineering Mathematics

National Iranian South Oil Company *2016 August - 2017 January*
Internship
Participating in a project associated with researchin on turbines

PROJECTS

Renewable hydrocarbon modeling and its role in transportation, aviation and maritime shipping - 2021 September
A collaborated project with Geprgia Tech university to introduce synthetic renewable hydrocarbon fuel to the WITCH integrated assessment model to analyse its feasibility in future transport, aviation and maritime shipping in order to reach climate targets

M.Sc final thesis - 2020 June
Modeling hydrogen production and infrastructure in WITCH integrated assessment model for implementing in transportation and energy sector through different climate change mitigation scenarios

Analysis of energy & economics input/output matrix - 2019 February
Shock analysis on the country's level energy and transactions condition using input/output method

Modeling in DICE integrated assessment model - 2019 March
Endogenizing land emissions into DICE model to observe the results in economy, emissions and optimized scenario

B.Sc final thesis - University of Tehran - 2017 March
Experimental research on enhanced superhydrophobic surfaces and its effect on heat transfer and corrosion properties to be used in shell & tube heat exchangers

SKILLS

GAMS

Matlab

R

Phyton

Fluent Ansys

LaTeX

Microsoft Office

INTERESTS

Energy modeling

Energy economics

Climate mitigation

Alternative fuels & hydrogen

Renewables and sustainable energy

International transport

LANGUAGES

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

REFERENCE

Dingena Schott - "Delft University of Technology"
Associate Professor
D.L.Schott@tudelft.nl

Jeroen Pruyn - "Delft University of Technology"
Associate Professor
J.F.J.Pruyn@tudelft.nl

Massimo Tavoni - "Politecnico di Milano / EIEE"
Full Professor / Director of EIEE
Massimo.tavoni@eiee.org

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