



# Mohammad Amin Tahavori

Energy Engineer, Energy for Development

## PROFESSIONAL EXPERIENCES

10/2020 - Ongoing

### UNESCO Chair - Politecnico di Milano (Italy) – Research Fellow

Working on the following projects:

- AWESOME-PRIME: Developing a decision-analytic platform based on a multi-level modeling approach capturing the water, food, economic and energy pathway of the Mediterranean countries for long time-horizon.
- Research activity in the field of energy-economic modeling. Developing of an open-source energy dispatch model fully integrated with Input-Output model (Python based)
- Research activity in the field of energy-economic modeling. Developing of an open-source soft linked energy economic model (python based)
- Research activity in the filed of industrial ecology modeling. Developing of an open-source library for handling different types of IO models and database management (Python based)

07/2019 – 10/2020

### Fondazione Eni Enrico Mattei (FEEM-Italy) – Research Fellow

AFRICA: Research, Empowerment, Partnership (REP)

- CIVICS-Kenya: A case study on coffee supply chain in Kenya based on the multidisciplinary, comprehensive, and integrated Country study (CIVICS) framework developed by REP research group in FEEM.
- CIVICS-Ghana: A case study on Maize and Poultry supply chain in Ghana based on the multidisciplinary, comprehensive, and integrated Country study (CIVICS) framework developed by REP research group in FEEM.

01/2015 – 07/2016

### Rayan Tahlil Sepahan (Iran) – Research Fellow

AFRICA: Research, Empowerment, Partnership (REP)

- Development of a new model for body heat transfer by assimilating two older models (Fortran Based) to estimate the temperature of different parts of body while a person is working in a specific manner or certain place and calculation of for calculating Thermal comfort.

## EDUCATION

09/2017 – 07/2020

### Politencnico di Milano (Italy) – MSc in Energy Engineering for Development

Master's Thesis: Development of a Hybrid Optimization modeling framework based on the dynamic Input-Output model and rectangular choice of technology in a supply and use framework to capture as a fully integrated energy-economic model for the economy-wide future capacity expansion plans and their impact on the environment, labor force and all the sectors of the economy.

09/2013 – 01/2017

### Isfahan University of Technology (Iran) – BSc in Mechanical Engineering



mohammadamin.tahavori@polimi.it



+39 3917566151



Via Calabria 30, Milano, Italy. 20158

## Programming Languages

Python



GAMS



Matlab



## Energy Models

OSeMOSYS



Message ix



Microgridspy



Calliope



## General

Microsoft Office



LaTeX



## Languages

Persian: Mother Tongue

English



Italian



## PUBLICATIONS

- Mosayebidorcheh S, **Tahavori MA**, Mosayebidorcheh T, Ganji DD. Analysis of nano-bioconvection flow containing both nanoparticles and gyrotactic microorganisms in a horizontal channel using modified least square method (MLSM). Journal of Molecular Liquids. 2017 Feb 1;227:356-65
- Mr. Mohammadreza Pourkiani, Mr. Masoud Abedi and **Mr. Mohammad Amin Tahavori**, Improving the Quality of Service in WBSN Based Healthcare Applications by Using Fog Computing. IEEE conference 2019

## INTERSTS

- Energy Modeling
- Industrial Ecology
- Sustainable Development
- Renewable Energy

## EXTRACURRICULAR ACTIVITIES

- Reading:
  - Philosophy (Favorite Authors: F. Nietzsche, A. Schopenhauer)
  - Psychology (Favorite Authors: I.D Yalom)
  - Novel (Favorite Authors: Dostoyevsky)
  - Politic and History
- Cinema (Favorite Directors: A. Hitchcock, Billy Wilder, John Ford, Ingmar Bergman)
- Musician:
  - Drums
  - Cajon
  - Daf
  - Tonbak

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