















Graduate Research Assistant Sociotechnical Sustainable Transitions

Masdar Institute of Science and Technology Institute Center for Smart and Sustainable Systems Engineering Systems & Management

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Co-founder Workshops, Modeling

ARC initiative

Engineering System Design through Participation · Collaboration · Sustainability

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interests

Data Datactivism

Data Science & Data Mining Data Visualization & Infographics

Sustainability

Sustainable Energy Transitions Water-Energy-Food Nexus

Systems Thinking & System Dynamics

Development

Teaching sustainability in developing regions Colorful development, HDI analysis Energy, Sustainability and Development

education

2013 -آااا ھي

Sep-Dec

2014

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2011 - 2013 3.63 / 4.00

MSc Thesis 🗢



2007 - 2011 9.15 / 10.00 BSc Thesis 3

2003 - 2007

pursuing PhD in Interdisciplinary Engineering

Masdar Institute of Science and Technology, Abu Dhabi, UAE

degree offered in collaboration with Massachusetts Institute of Technology (MIT), USA Focus areas: Sustainable Energy Transitions, Data Science for Energy Flows Modeling exchange semester at Massachusetts Institute of Technology (MIT), USA Focus areas: Climate change modeling, Nonlinear dynamic systems,

MSc in Engineering Systems & Management

Masdar Institute of Science and Technology, Abu Dhabi, UAE

degree offered in collaboration with Massachusetts Institute of Technology (MIT), USA Focus areas: Object Oriented System Dynamics, Sustainable Aviation

BSc (honors) in Electrical Engineering, Electrical Systems

Technical University of Cluj-Napoca, Cluj-Napoca, Romania, Head of Class, Best Thesis co-signed by Technological Educational Institute of Western Macedonia, Kozani, Greece Specialization: Electrical Systems, Focus areas: Numerical Methods, Electromagnetism

Márton Áron High School - Miercurea Ciuc, Romania, 98.4 / 100, Head of Class, Promotion

skills



Python AnyLogic D3.js UN data APIs Javascript Teaching HTML + CSS Vensim MongoDB Sankeys Excel VBA Data mining

languages



Hungarian (native) Romanian (as native) English (as native) French (intermediate) German (intermediate)

experience & research

6 years experience as Research Assistant

3 years experience as Teaching Assistant

7 months spent as visiting student/researcher

2+ years in development with ARC initiative - link \bigcirc

2+ years in data analysis and visualization - link \supset

1 journal article, 3 expected

4 conference presentations

1 book, 1 book chapter

link ⊃



Research websites: SET | Food | Conflict | Development

involvement

Through my organization, ARC initiative, I have participated in, organized and led educational workshops on sustainability and renewable energy in developing regions, including India, Indonesia, Malaysia, Tanzania and Somaliland.

ARC

Blog

I lead the data blog Try something new. Everyday, exploring topics in development through data analysis and visualization.

activities

Martial arts Trekking Stok Kangri Mont Blanc

4 DAN Shotokan Karate, 3 DAN Kendo 2 World & 4 European Championships with Romanian National Kendo Team

Traveling (visited 40+ countries, lived in 4)

objective My objective is to contribute to the advancement of sustainability, development and equity through science, applied and virtual community outreach. Scientific research, data visualizations, analyses and interactive models are my tools for this mission and I am not afraid of getting my hands dirty.

