













Graduate Research Assistant Sociotechnical Sustainable Transitions

Masdar Institute of Science and Technology Institute Center for Smart & 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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profile >

Data Science

Data Analysis & Data Mining

Data Visualization & Infographics

Datactivism & Data blogs: EN 🗦 HU ⊃

Energy & Sustainability

Biophysical Economics & Net Energy Analysis

Sustainable Energy Transitions

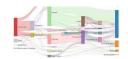
Renewables & Water-Energy-Food Nexus

Simulation Modeling

Game theory & Networks Agent-based modeling & Complex systems Systems Thinking & System Dynamics

















education

2013 - 2016

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Sep - Dec

2014

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, Energy Flows Modeling exchange semester at Massachusetts Institute of Technology (MIT), USA

Focus areas: Climate change modeling, Nonlinear dynamic systems,





2011 - 2013 3.63 / 4.00

MSc Thesis **⊃**

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



2007 - 2011 9.15 / 10.00

BSc Thesis 🗢 2003 - 2007

BSc (honors) in Electrical Engineering, Electrical Systems

Technical University of Cluj-Napoca, Cluj-Napoca, Romania, Head of Class, Best Thesis co-signed by Western Macedonia University of Applied Sciences, 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 D3plus Sankeys

languages



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

German (intermediate)

experience & research

7 years experience as Research Assistant

4 years experience as Teaching Assistant

8 months spent as visiting student/researcher

3+ years in development with ARC initiative - link \supset

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

1 journal article, 3 expected

1 book, 1 book chapter





involvement

Development

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

Datactivism

data analyses My have been featured by UNDP, UNHCR, the GDELT project and Kantar Information Is Beautiful Awards.

Somoliland

activities

Martial arts Trekking Stok Kangri

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



Traveling (visited 40+ countries, lived in 4) Research websites: SET | Food | Conflict | Development Mont Blanc