



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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Blogger
Data Visualization

Personal Website
English data blog
Hungarian data blog

*Data Science
Dataactivism
Social Networks*

profile

Data Science

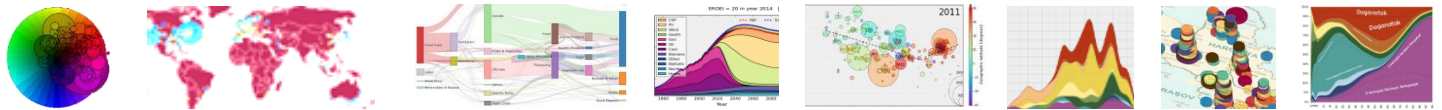
Data Analysis & Data Mining
Data Visualization & Infographics
Dataactivism & Data blogs: EN | HU

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

PhD in Interdisciplinary Engineering


2013 – 2016

3.75 / 4.00
Fall 2014
PhD Thesis
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: Energy systems & Climate change modeling, Nonlinear dynamic systems



MSc in Engineering Systems & Management

2011 – 2013

3.63 / 4.00
MSc Thesis
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 Systems Engineering

2007 – 2011

9.15 / 10.00
BSc Thesis
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
2003 – 2007
Márton Áron High School – Miercurea Ciuc, Romania, *98.4 / 100, Head of Class*

skills



Python	AnyLogic
D3.js	data APIs
Javascript	Teaching
HTML + CSS	Vensim
D3plus	Sankeys
Excel VBA	Data mining

languages



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

experience & research

7 years experience as Research Assistant } link
4 years experience as Teaching Assistant } link
8 months spent as visiting student/researcher
3+ years in development with ARC initiative - link
2+ years in data analysis and visualization - link
2 journal articles, 2 expected } link
5 conference presentations } link
1 book, 1 book chapter } link



Research websites: [SET](#) | [Food](#) | [Conflict](#) | [Development](#)

involvement

Development

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

Dataactivism

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

activities

Martial arts
Trekking
Stok Kangri (6153)
Mont Blanc (4809)
4 DAN Shotokan Karate, 3 DAN Kendo
2 World & 4 European Championships with **Romanian National Kendo Team**
Traveling (visited 50+ countries, lived in 4)

