













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

+40 74 477 2756 denes@arc-initiative.org





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

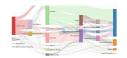
Simulation Modeling

Game theory & Networks

Agent-based modeling & Complex systems Systems Thinking & System Dynamics

















education

PhD candidate in Interdisciplinary Engineering

2013 -Masdar Institute of Science and Technology, Abu Dhabi, UAE آااا ھ

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,





Sep-Dec

2014

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





9.15 / 10.00 BSc Thesis 3

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 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

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





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, including India, Indonesia, Malaysia, Tanzania and Somaliland.

Datactivism

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

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)

References for Denes Csala

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