

Assistant Professor
Energy Storage Systems Dynamics

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Co-founder
Sustainable Energy & Development

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
Datactivism
Social Networks

Energy & Sustainability

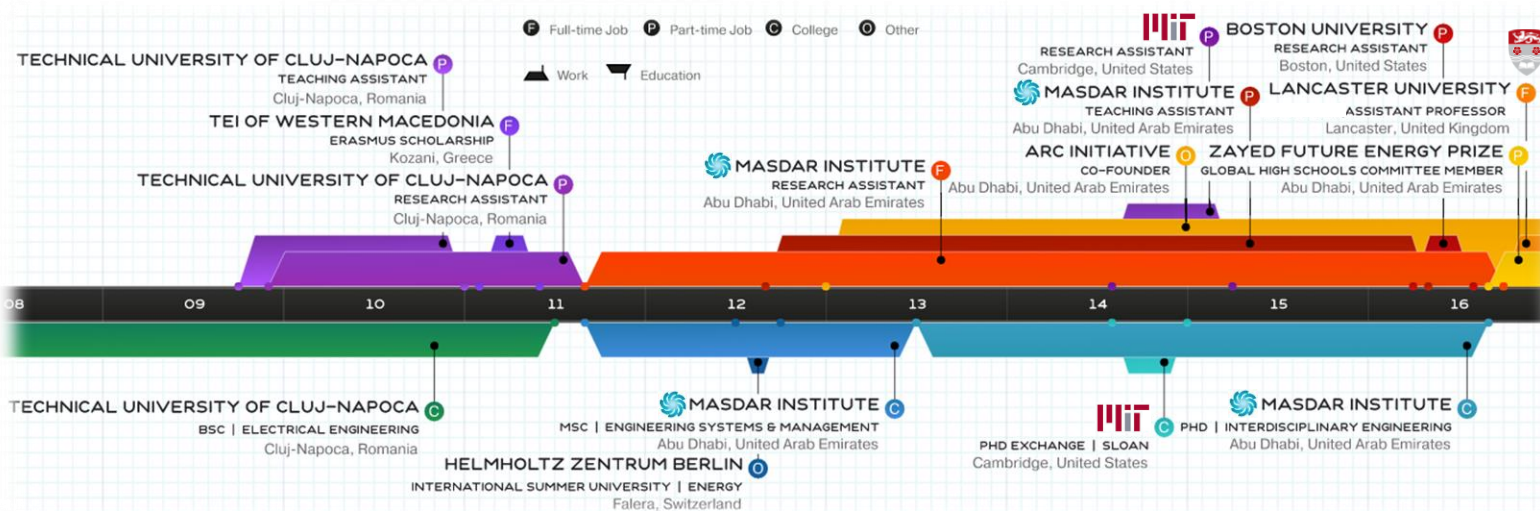
Biophysical Economics & Net Energy Analysis
Sustainable Energy Transitions
Renewables & Water-Energy-Food Nexus

Simulation Modeling

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

Data Science

Data Analysis & Data Mining
Data Visualization & Infographics
Datactivism & Data blogs: EN ↔ | HU ↔



Dénes is an **assistant professor** in *Energy Storage Systems Dynamics* with *Energy Lancaster* and an **independent consultant** in **data science** and **energy**. His research interests include system dynamics, energy transitions, energy storage, **data visualization**, data mining, machine learning, AI and agent-based modeling.

He is a well-known researcher in the field of **sustainable energy transitions** and **biophysical economics**. With a *PhD* in *Interdisciplinary Engineering* from *Masdar Institute*, in collaboration with *MIT*, his research has been published in *Nature* and it has been featured in *The Times*. He currently leads an **energy data analytics** project at Lancaster University.

When not in front of the computer, Dénes roams the **mountains** of the **Himalaya** and the **jungles** of **Africa** to hold workshops on **sustainability** and **renewable energy**. His **datactivism** blog *Try something new. Everyday.* Is followed by 1000, exploring topics in **development** through **story-telling with data**.



<p>1+ years Ast Prof 7y Research Ast 4y Teaching Ast 4y Development 3y Data Science</p> <p>PhD thesis ↔ MSc thesis ↔ BSc thesis ↔</p>	<p>4 DAN black belt in Shotokan Karate 3 DAN in Kendo</p> <p>2 World & 4 Euro Championships</p> <p>Climbed Mont Blanc Stok Kangri 6153m</p> <p>Visited 50 countries Lived in 5 on 3 cont</p>	<p>10+ peer-reviewed articles in journals including Nature</p> <p>RG: 15.3 h-index: 3 PI on 2 research grants, Co-I on 3</p> <p>Research featured in Times, Quartz, with over 100,000 reads</p>	<p>Educational workshops on sustainability and renewable energy in Malaysia, Indonesia, Tanzania, India, Somaliland.</p> <p>ZFEP jury member</p> <p>1000 blog followers</p> <p>Live workshops on dataviz, datactivism</p>	<p>My data analyses have been featured by UNDP, UNHCR, the GDELT project and Kantar Info Beautiful Awards</p> <p>Pro in D3, D3plus, Seaborn, Bokeh, PowerBI, superset, HTML + CSS + JS</p>	<p>My agent-based & system dynamics simulation models top 3 of the 10 categories on runthemodel.com</p> <p>Ecosystem& Social Dynamics AnyLogic</p> <p>Pro in Python, Pandas, NumPy</p>	<p>Languages</p> <p>As native: EN, HU, RO Medium: FR, DE</p> <p>30+ presentations around the world</p> <p>Pro in impress.js, slides.com, live</p>
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