



## De Leon Almaraz Sofia

Associate Professor  
Rektori szervezet / Operáció és Döntés Intézet / Ellátásilánc-  
menedzsment Tanszék

## Qualifications, scientific degrees

### Higher education qualifications

- 2001 - 2005  
Instituto Tecnológico de Toluca, BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (BSc/BA)
- 2020 - 2025  
Universitat Oberta de Catalunya, BACHELOR OF PSYCHOLOGY (BSc/BA)
- 2008 - 2010  
Universidad Autónoma del Estado de México, MASTER IN ORGANIZATIONAL MANAGEMENT (MSc/MA)
- 2011 - 2014  
Institut National Polytechnique de Toulouse, PHD IN PROCESS AND ENVIRONMENTAL ENGINEERING (PhD/DLA képzés)

### Scientific degrees and awards

- 2014, PhD  
Institut National Polytechnique de Toulouse

## Career

### Workplaces

- 2005 - 2008  
Kellogg's (Mexico), Production supervisor
- 2008 - 2010  
Kellogg's (Mexico), Process Engineer / Food and Packaging Technologist
- 2014 - 2016  
Institut National Polytechnique de Toulouse (France), Post Doctoral Researcher
- 2016 - 2017  
General Electric (Hungary), Order Management Specialist
- 2017 - 2018  
Evidera (Hungary), Research Associate II - Modelling and Simulation
- 2019 - 2020  
Flowserve (Hungary), Senior Process Improvement Engineer
- 2020 - 2022  
Corvinus University of Budapest, Assistant Lecturer
- 2022 - 2024  
Corvinus University of Budapest, Assistant Professor

# Colleague CV: De Leon Almaraz Sofia

- 2024 -  
Corvinus University of Budapest, Associate Professor

## Awards, titles, honors

- 2014, Leopold Escand Award  
Institut National Polytechnique de Toulouse (France)
- 2024, Member of the European Hydrogen Sustainability and Circularity Panel  
Clean Hydrogen Partnership

## Language skills

Language	Speaking	Writing	Reading	Media appearance
English	Advanced	Advanced	Advanced	
French	Advanced	Intermediate	Advanced	
Spanish	Native	Native	Native	
Hungarian	Basic	Basic	Basic	

## Research, professional activity

### Major taught courses or fields of education:

Operations Management, Lean Manufacturing, Hydrogen Supply Chains

### Field of science and discipline:

engineering and technology

### Current fields of research:

Hydrogen Supply Chains, Energy transition, Stakeholder dynamics, Sustainability, Life Cycle Assessment

### Major research projects

- 2012 - 2013, Green hydrogen (Midi-Pyrenees)  
Form of participation: leader of the research team  
Moneylender: Midi-Pyrenees region  
Further info about research: Working with stakeholders in the Midi-Pyrenees region. Developed a multi-objective optimization model to design sustainable hydrogen supply chains.
- 2021 - 2022, Green hydrogen (Hungary)  
Form of participation: leader of the research team  
Moneylender: CIAS  
Further info about research: Working with the Regional Centre for Energy Policy Research

# Colleague CV: De Leon Almaraz Sofia

Improved the multi-objective optimization model to design sustainable hydrogen supply chains.

- 2024 - 2026, Competition, Cooperation and Coopetition in the Deployment of the Hydrogen Supply Network  
Form of participation: leader of the research team  
Moneylender: National Research, Development and Innovation Fund of Hungary [grant number: OTKA FK 146575]  
Further info about research:

## Membership in scientific or professional bodies/organizations

- 2024 - 2025, Member of the 1st European Hydrogen Sustainability and Circularity Panel, member  
\_\_\_\_\_, international
- 

## Board memberships and positions

- 2024 - , Member of the Academic Advisory Board, other position (e.g. member of the advisory board)

## Publications

- [Assessment of mono and multi-objective optimization to design a hydrogen supply chain](#)
- [Hydrogen supply chain optimization for deployment scenarios in the Midi-Pyrénées region, France](#)
- [Deployment of a hydrogen supply chain by multi-objective/multi-period optimisation at regional and national scales](#)
- [Design of a water allocation and energy network for multi-contaminant problems using multi-objective optimization](#)
- [Chapter 4 - Design and Optimization of Hydrogen Supply Chains for a Sustainable Future](#)
- [Sustainable wastewater treatment plants design through multiobjective optimization](#)
- [Multiobjective and social cost-benefit optimisation for a sustainable hydrogen supply chain: Application to Hungary](#)
- [Identifying social aspects related to the hydrogen economy: Review, synthesis, and research perspectives](#)
- [Sustainable energy supply transition: the value of hydrogen for business customers](#)
- [Hydrogen and the sustainable development goals: Synergies and trade-offs](#)
- [A holistic approach to assessing reliability in green hydrogen supply chains using mixed methods](#)
- [Coalition analysis for low-carbon hydrogen supply chains using cooperative game theory](#)
- [Strategic dynamics in hydrogen deployment: a game-theoretical review of competition, cooperation, and coopetition](#)
- [Bridging strategic design and bi-level operational management for hydrogen supply chains under Cournot game-based producer competition](#)

## Contacts

### Location at the university

- Building: E  
Room number: 123.2  
Extension:  
Main line:  
Fax:  
Internal fax:
-

# Colleague CV: De Leon Almaraz Sofia

E-mail address: de.sofia@uni-corvinus.hu

## Other professional profiles

LinkedIn: [www.linkedin.com/in/sofia-de-leon-almaraz-22755737](http://www.linkedin.com/in/sofia-de-leon-almaraz-22755737)

MTMT: <https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10081349&view=simpleList>

Scholar: <https://scholar.google.hu/citations?user=C2WO338AAAAJ&hl=en>

---