

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

- 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

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:

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Other professional profiles

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

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