# Çağıl Koçyiğit

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## KEY AREAS OF INTEREST

Optimization under uncertainty: (distributionally) robust optimization, stochastic and dynamic programming
Policy and mechanism design: resource allocation problems, auctions, pricing, societal problems, fairness, equity

## ACADEMIC APPOINTMENT

**University of Luxembourg** (Luxembourg) Oct. 2020 - present
Assistant Professor
Luxembourg Centre for Logistics and Supply Chain Management
Department of Economics and Management

## EDUCATION

**École Polytechnique Fédérale de Lausanne (EPFL)** (Switzerland) Oct. 2015 - Sept. 2020
Ph.D., Risk Analytics and Optimization, Management of Technology
Advisor: Daniel Kuhn

**Bilkent University** (Turkey) Sept. 2013 - Aug. 2015
M.Sc., Industrial Engineering (Full Graduate Scholarship)
Advisor: Mustafa Ç. Pınar

**Bilkent University** (Turkey) Sept. 2008 - June 2013
B.Sc., Industrial Engineering (Merit Scholarship)

## PUBLICATIONS

**Simple and Effective: A Deterministic Auction with Support Information**
with Rishikesh Parma and Benny Mantin
*Submitted for review,* September 2024

**Learning Optimal and Fair Policies for Online Allocation of Scarce Societal Resources from Data Collected in Deployment**
with Bill Tang, Eric Rice and Phebe Vayanos
*Revise and resubmit at Management Science,* March 2024
Featured in general audience talks: Ç. Koçyiğit's MIT Scale Webinar (2024) and P. Vayanos' TED AI Talk (2023)
Highlighted as **'Committee's Choice'** presentation at the INFORMS Annual Meeting (B. Tang) (2021)

**Distributionally Robust Allocation with Costly Verification**
with Halil I. Bayrak, Daniel Kuhn and Mustafa Ç. Pınar
*Minor revision submitted to Operations Research, November 2024*

**Distributionally Robust Linear Quadratic Control**
with Bahar Taskesen, Dan A. Iancu and Daniel Kuhn
*Advances in Neural Information Processing Systems (NeurIPS),* **Spotlight** *(2023)*
*Extended journal version in preparation for submission to Operations Research*
INFORMS **George Nicholson Student Paper Competition Finalist** (B. Taskesen) (2023)

**Regret Minimization and Separation in Multi-Bidder Multi-Item Auctions**
with Daniel Kuhn and Napat Rujeerapaiboon
*INFORMS Journal on Computing (2024)*

**Robust Multidimensional Pricing: Separation without Regret**
with Daniel Kuhn and Napat Rujeerapaiboon
*Mathematical Programming (2022)*
**Best Publication by Junior Researcher Award** (2021), University of Luxembourg

**Distributionally Robust Mechanism Design**
with Garud Iyengar, Daniel Kuhn and Wolfram Wiesemann
*Management Science (2020)*

**Robust Auction Design under Multiple Priors by Linear and Integer Programming**
with Halil I. Bayrak and Mustafa Ç. Pınar
*Annals of Operations Research (2018)*

**Flight-Scheduling Optimization and Automation for AnadoluJet**
with Başak Kepir, Işıl Koyuncu, Melis B. Özer, Bahar Y. Kara and Melih A. Gürbüz
*INFORMS Journal on Applied Analytics (formerly Interfaces) (2016)*
INFORMS **Undergraduate Operations Research Prize Winner (2013)**

Ph.D. Thesis: **Distributional Robustness in Mechanism Design**
École Polytechnique Fédérale de Lausanne (EPFL) (2020)
**Kilian Schindler Excellence Award** (2020)

## TEACHING

**University of Luxembourg** 2021 - present

- **Analytical Methods and Data Science** (co-taught with Nils Löndorf)
  Core Course, Master in Logistics and Supply Chain Management
  Offered Fall 2021–2023; now in Fall 2024
- **Optimal Decision Making**
  Elective Course, Master in Logistics and Supply Chain Management
  Offered Spring 2021–2024; next in Spring 2025
- **Linear Algebra**
  Core Course, Bachelor in Economics
  Offered Spring 2022–2023; next in Spring 2025 (one-year gap due to curriculum change)
- **Convex Optimization**
  Elective Course, Ph.D. in Economics and Management
  Offered Spring 2024

**École Polytechnique Fédérale de Lausanne (EPFL)** 2015 - 2020

- Optimal Decision Making (M.Sc. level) (Co-lecturer and Teaching Assistant)
- Convex Optimization (M.Sc. and Ph.D. level) (Teaching Assistant)
- Strategic Marketing and Technology Commercialization (M.Sc. level) (Teaching Assistant)