

Gianmarco Andreana

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Research Interests

Air transport, applied game theory, operations research

Assessment of airline competition equilibria under different game-theoretic settings. Evaluation and development of air transport policies. Mitigation of air transport climate impact. Development of algorithms for single and multi-stage game-theoretic models. Airport noise assessment and reduction. Air traffic demand estimation.

Employment

University of Bergamo

Department of Economics
Post-doctoral Researcher
Lecturer

March 2024 – present

March 2023 – present

Università Commerciale Luigi Bocconi

Department of Economics
Academic Fellow
Lecturer

September 2024 – present

September 2024 – present

Hebrew University of Jerusalem

Business School
Post-doctoral Researcher
Lecturer

January 2023 – January 2024

January 2023 – January 2024

Education

University of Bergamo & Pavia

Ph.D., Applied Economics and Management

March 2023

Supervisor: Prof. Nicole Adler

Tutor: Prof. Gianmaria Martini

Field: Air Transport Competition

Dissertation: "Externalities in the Aviation Industry"

Evaluation: "Excellent"

Dissertation committee: Prof. Stef Proost (KU Leuven)

Prof. Claudio Ferrari (University of Genova)

Hebrew University of Jerusalem

Business School

Visiting Research Fellow

June 2021 – October 2022

University of Bergamo

M.S.E., Management Engineer

September 2019

University of Bergamo

B.S.E., Management Engineer

September 2017

Publications

Journal papers (peer-reviewed)

Andreana, G., Grampella, M., Martini, G., & Scotti, D. (2024). "Airport noise assessment and mitigation: A simple and flexible methodology". *Case Studies on Transport Policy*.

Adler, N., & **Andreana, G.** (2023). "Aiding airlines for the benefit of whom? An applied game-theoretic approach". *European Journal of Operational Research*.

Andreana, G., Gualini, A., Martini, G., Porta, F., & Scotti, D. (2021). "The disruptive impact of COVID-19 on air transportation: An ITS econometric analysis". *Research in Transportation Economics*, 90, 101042.

Working papers

de Jong, G., Adler, N., & **Andreana, G.** "Air Transport Demand in Europe and North-America: Estimation and Application in an Aviation Environmental Policy Game". *Forthcoming*.

Adler, N., & **Andreana, G.**, de Jong, G. "Competing on Emission Charges". *Forthcoming*.

Awards

Young Independent Researcher Grant - Principal Investigator*University of Bergamo*

2024

ISTRC Conference Grant Summer 2023*The Israeli Smart Transport Research Center*

2023

TSL Cross Regional Grants*Inform, Transportation Science and Logistics*

2022

AAS Best Student Presentation Competition*Inform, Aviation Application Section*

2022

Best Paper by a Junior Researcher*International Transport Economics Association (ITEA)*

2022

Giovanni Manera Fellowship
University of Pavia 2022

Discrete Choice Analysis course tuition scholarship
Ecole Polytechnique Fédérale de Lausanne (EPFL) 2022

Best student paper award
24th ATRS Worldwide 2021

Conferences

2024
2024 INFORMS Annual Meeting, Seattle, Washington, USA
Session Chair: Competition in the Aviation Industry
Paper: "Estimating the Societal Value of Airport Slots"

25th ISMP International Symposium on Mathematical Programming, Montréal, Canada
Paper: "Competing on Emissions Charges"

5th SoAR Symposium on Aviation Research, Luxembourg, Luxembourg
Paper: "Air Transport Demand in Europe and North America: Estimation and Application in a Game-Theoretical Analysis of Slot Values"

2023
2023 INFORMS Annual Meeting, Phoenix, Arizona, USA
Session Chair: AAS Best Student Presentation Competition
Paper: "Air Transport Demand in Europe and North America: Estimation and Application in an Aviation Environmental Policy Game"

11th hEART Symposium of the European Association for Research in Transportation, ETH Zurich, Switzerland
Paper: "Competing on Emission Charges"

4th SoAR Symposium on Aviation Research, Toulouse, France
Paper: "Competing on Emission Charges"

2022
2022 INFORMS Annual Meeting, Phoenix, Arizona, USA
Paper: "Competing on Emission Charges"
(AAS Best Presentation Award)

International Transportation Economics Association (ITEA), Toulouse, France
Paper: "Aiding airlines for the benefit of whom? An applied game-theoretic approach"
(Best Student Paper)

3rd SoAR Symposium on Aviation Research, Bergamo, Italy

Organization committee

Paper: "Aiding airlines for the benefit of whom? An applied game-theoretic approach"

2021

2021 INFORMS Annual Meeting, Anaheim, California, USA

Paper: "Aiding airlines for the benefit of whom? An applied game-theoretic approach"

24th ATRS Worldwide, Sidney, Australia

Paper: "A general and simplified methodology to define airport noise influenced zones and measure the related social cost"
(Best Student Paper)

Teaching

Università Commerciale Luigi Bocconi

Teaching Assistant

microeconomics (b.i.e.m. 30065-17), Fall 2024

Università Commerciale Luigi Bocconi

Tutor

microeconomics (b.i.e.m. 30065-16), Fall 2024

University of Bergamo

Lecturer

Industrial Organization (M.S.E. 37210-1), Spring 2024

The Hebrew University of Jerusalem

Lecturer

Quantitative Models (M.B.A. 55815), Spring 2023

University of Bergamo

Teaching Assistant

Health Economics and Policy (M.S.E. 148009-M2), Spring 2020, Spring 2021

University of Bergamo

Teaching Assistant

Market Regulation and Health Care (M.S.E. 37186-ENG), Fall 2020, Fall 2021

University of Bergamo

Tutor

Summer School in Applied Health Econometrics and Health Policy, July 2020

University of Bergamo

Teaching Assistant

Economics (B.S.E. 22045), Fall 2019, Fall 2020, Fall 2021, Fall 2022

University of Bergamo

Teaching Assistant

Health Economics (B.S.E. 95010), Fall 2019, Fall 2020

Training

International Transportation Economics Association (ITEA)

Transportation Economics School

2022

Ecole Polytechnique Fédérale de Lausanne (EPFL)

*Discrete Choice Analysis course – Predicting Individual Behavior
and Market Demand*

2022

Advanced Risk and Portfolio Management (ARPM)

Bootcamp

2020

University of Bergamo

Summer School Applied Health Econometrics and Health Policy

2018

International Project Management Association (IPMA)

Introductory Level Certificate

2018

Reviewer
Activity

Journal reviews

Transportation research part A: Policy and Practice

Transportation research part E: Logistics and Transportation Review

Economics of Transportation

Journal of Air Transport Management

IEEE Transactions On Industrial Informatics

Applied Energy

Science Progress

European Journal of Operational Research

Professional Societies	Institute for Operations Research Management Science (INFORMS) <i>Member, 2019 – present</i>	
	INFORMS Aviation Application Section (AAS) <i>Member, 2019 – present</i>	
	Mathematical Optimization Society (MOS) <i>Member, 2024 – present</i>	
	International Transportation Economics Association (ITEA) <i>Member, 2022 – 2022</i>	
	Operations Research Society of Israel (ORSIS) <i>Member, 2022 – 2022</i>	
	Italian Society of Economists (SIE) <i>Member, 2019 – 2023</i>	
Languages and Skills	Italian Society of Transport Economists (SIET) <i>Member, 2019 – 2023</i>	
	Italian (native), English (advanced) Python, Mathematica, R, Julia, Pyomo, AMPL & ZIMPL, \LaTeX , QGIS, Microsoft Office, Microsoft Windows, Linux	
References	Nicole Adler Business School Hebrew University of Jerusalem Nicole.Adler@mail.huji.ac.il	Gianmaria Martini Department of Economics University of Bergamo gianmaria.martini@unibg.it
	Stefano Coniglio Department of Economics University of Bergamo stefano.coniglio@unibg.it	