

# Gianmarco Andreana

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University of Bergamo  
Department of Economics  
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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 2024 – 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".

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

## 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**  
*24<sup>th</sup> ATRS Worldwide* 2021

## Conferences

**2025**  
*2025, Winter Workshop DSE of the University of Bergamo, Castione della Presolana, Italy*  
**Paper:** "Estimating the Societal Value of Airport Slots"

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

*25<sup>th</sup> ISMP International Symposium on Mathematical Programming, Montréal, Canada*  
**Paper:** "Competing on Emissions Charges"

*5<sup>th</sup> 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"

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

*4<sup>th</sup> 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**)

*3<sup>rd</sup> 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"

*24<sup>th</sup> 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

### **University of Bergamo**

*Lecturer*

Neural Network and Deep Learning (M.S. 149022-ENG), Spring 2025

### **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	<b>International Transportation Economics Association (ITEA)</b> <i>Transportation Economics School</i>	2022
	<b>Ecole Polytechnique Fédérale de Lausanne (EPFL)</b> <i>Discrete Choice Analysis course – Predicting Individual Behavior and Market Demand</i>	2022
	<b>Advanced Risk and Portfolio Management (ARPM)</b> <i>Bootcamp</i>	2020
	<b>University of Bergamo</b> <i>Summer School Applied Health Econometrics and Health Policy</i>	2018
	<b>International Project Management Association (IPMA)</b> <i>Introductory Level Certificate</i>	2018
Reviewer Activity	<b>Journal reviews</b> <i>Transportation research part A: Policy and Practice</i> <i>Transportation research part E: Logistics and Transportation Review</i> <i>Economics of Transportation</i> <i>Journal of Air Transport Management</i> <i>IEEE Transactions On Industrial Informatics</i> <i>Applied Energy</i> <i>Science Progress</i> <i>European Journal of Operational Research</i> <i>Case Studies on Transport Policy</i> <i>Asian-Pacific Journal of Operational Research</i>	

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