

Estelle MALAVOLTI, PhD.

CONTACT INFORMATION

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CURRENT POSITION

- Full Professor at the French University of Civil Aviation (ENAC, Enseignant-Chercheur)
- Research associate at Toulouse School of Economics

RESEARCH INTERESTS

Industrial Organization
Competition Policy
Ecological Economics
Air Transport Economics

PROFESSIONAL EXPERIENCE

Head of the research chair [TRAVEL](#) (susTainable aiR mobility and new pAssenger behaViour modELLing) *June 2024-June 2029*

- Economic analysis of the new travelling behaviours of consumers
- Intermodality products and development

Member of the [Performance Review Board](#) *Septembre 2019-*

- European Commission
- Evaluation of the performance and the future of the Air Traffic in Europe

Director of the Master 2 Economics of Markets and Organizations programme *2016-2020*

Toulouse School of Economics

PhD Advisor *july 2022-*

- Theme : Model of ecological economics, the role of technical progress
Antoine Ronsain, AIRBUS and ENAC (ANRT funds)
Co-directed with Alexandre Gondran, Associate professor of Applied Mathematics, ENAC

PhD Advisor *October 2018-March 2022*

- Theme : Impact of disruptive innovations in the air transport system
Shangrong Chen, ENAC

Co-directed with Marcel Mongeau, Professor of Operational Research,
ENAC

PhD Advisor *October 2012-2017*

- Theme : Regulation and competition in the Air Transport Sector
Chunan Wang, Toulouse School of Economics

PhD Advisor *October 2006-2011*

- Theme : differentiation and innovation, application to telemedecine from flights
Thibault larger, Toulouse School of Economics

Expert *2005-*

- Member of the management Committee and participation to the COST action "Air Transport and Regional Development", 2015-2019: Participation to workshops with presentation and to the composition of a handbook.
- Participation to PIPAA project, hydrogen introduction at the airports, 2017-2023: advisor of a thesis "Innovation adoption in the air transport system, the role of the airport", advisor post-doctoral student
- Participation to "Economic Impact of the ASEAN Single Aviation Market", 2014-2015: analysis of the economic conditions (mostly at airports) for the air transport liberalisation in ASEAN to be beneficial for the ASEAN members;
- Referee for the French Research Ministry, *programme Jeunes Chercheurs*, for Journals (International Journal of Industrial Organization, Journal of Economic and Management Strategy, Case Studies on Transport Policy, Transportation Research Part A, Journal of Air Transport Management)
- Editor for the Journal of Aviation Aerospace Education and Research, 2018-,
- Work Package Leader for the CARING project (Contribution of Airlines to the Reduction In Noises and Gazes), Cleansky (2010-2012), www.caring.aero
- Participation to "Future Airports Strategies", Care innovative project of Eurocontrol, with M3-system, 2008-2009
- Participation to "MODAIR" project on intermodality, Care innovative project Eurocontrol, with M3-system, 2004-2007
- Expert for the European Commission (research projects) and for the International Civil Aviation Organization (ICAO)

Research Fellow *Aug. 2002 to June 2004*

- ECARES, Free University of Brussels, Brussels, Belgium
- European University Institute, Finance and Consumption Chair, Florence, Italy

Visiting Lecturer *Sept. 1998 to Aug. 2004*

- University of Lille, IUT GEA, Management, Lille, France
- University of Pau et Pays de l'Adour, Master, Industrial Organization, Pau, France
- IUT Gestion des Entreprises et Administration, Auch, France

Lecturer *Sept. 1999 to Aug. 2002*

- University of Toulouse, France

EDUCATION

- Qualification Full Professor** *March 2020*
- CNU
- Professorial Thesis (Habilitation)** *Dec. 2018*
- Title: Problems of implementation of the Competition Policy, an economic analysis
 - Area of Study: Industrial Organization, Competition Policy, Air transport economics
- PhD. in Economics** *Dec. 2002*
- With highest Honors, GREMAQ, University of Toulouse, France
 - Thesis Title: Essays in asymmetric information
 - Advisor: Patrick Rey
 - Area of Study: Industrial Organization, Competition Policy
- Diplôme Européen d'Economie Quantitative Avancé** *June 1999*
University of Toulouse, France
- Ecole Normale Supérieure de Cachan** *Sept.1994-Aug.1998*
Department of economics and management, Paris,France
- Master degree in Mathematical Economics** *June 1998*
University of Toulouse, Toulouse, France
- Agrégation d'Economie et Gestion** *June 1997*

PUBLICATIONS

- "Adopting and diffusing hydrogen technology in air transport: An evolutionary game theory approach", with S. Bravo, S. Chen and R. Mongeau, **Energy Economics**, July 2023 , <https://doi.org/10.1016/j.eneco.2023.106864>
- "Social cost of airline delays: Assessment by the use of revenue management data", with A. Lesgourgues, **Transportation Research Part A: Policy and Practice**, vol. 170, Article ID 103613, April 2023, <https://doi.org/10.1016/j.tra.2023.103613>
- "Modeling technology changes in air transport in the presence of a market shock: A passenger-based analysis", with S. Chen, **Journal of Air Transport Management**, vol. 110(C), 2023, DOI: 10.1016/j.jairtraman.2022.102340
- "Optimal Contract for Reducing Flight Delays in EU: In the Context of SESAR", with C. Wang, **Mathematical Problems in Engineering**, vol. 2022, Article ID 8372764, 17 pages, 2022. <https://doi.org/10.1155/2022/8372764>.
- "Should regional airports be allowed to pay long-term operating aid to low-cost carriers?", with F. Marty **Revue Economique**, Presses de Sciences Po, 2020, 70 (2), pp.149-166;
- "Faut-il autoriser des aides d'exploitation pérennes versées par les aéroports régionaux aux compagnies à bas coûts?" (State aids to low-cost airlines: could it be worth if durable?), **Revue Economique**, Volume 70, *March 2019*.

- "State aids, LCC and regional airports: a two-sided market analysis", **Transportation Research Procedia**, Volume 25, 2017, Pages 30-40.
- "Single Till or Dual Till at Airports: A Two-sided Market Analysis", **Transportation Research Procedia**, Volume 14, 2016, Pages 3696-3703.
- "Strategic reactions of airlines to the European trading scheme", with M. Podesta, **Transportation Research Procedia**, Volume 8, 2015, Pages 103-113.
- "Communication and Binary Decision: Is it Better to Communicate?", with F. Loss, T. Vergé, **Journal of Institutional and Theoretical Economics**, Volume 169, issue 3, 2013, Pages 451-467.
- "Analyse économique des aides publiques versées par les aéroports régionaux aux compagnies low cost", with Frédéric Marty, **European Journal of Law and Economics**, *September 2010*.
- "European competition policy modernization: From notifications to legal exception", with F. Loss, T. Vergé and F. Bergés, **European Economic Review**, Vol. 52, Issue 1, *January 2008*.
- "Décentralisation de la Politique Européenne de Concurrence", with F. Loss and T. Vergé, **Economie et Prévision**, *2007*.
- "Modernisation de la Politique communautaire de concurrence : régime d'autorisation ou d'exception légale?", with F. Loss, T. Vergé and F. Bergés, **Revue Economique**, *May 2002*.

BOOK CHAPTERS
AND TECHNICAL
REPORTS

- "E-commerce and parcel delivery: environmental policy with green consumers", with Claire Borsenberger, Helmuth Cremer, Denis Joram, Jean-Marie Lozachmeur in *Postal Strategies*, sous la direction de Pier Luigi Parcu, Timothy J. Brennan et Victor Glass, Springer Nature Switzerland AG, 2023.
- "E-Commerce, Parcel Delivery and Environmental Policy " with Claire Borsenberger, Helmuth Cremer, Denis Joram, Jean-Marie Lozachmeur, in *The Postal and Delivery Contribution in Hard Times*, sous la direction de Pier Luigi Parcu, Timothy J. Brennan et Victor Glass, Springer Nature Switzerland AG, 2023.
- "French Airports Case Study" with F. Marty, in Forsyth P., Müller J., Niemeier H.-M., and Pels book " Economic Regulation of Urban and Regional Airports: Incentives, Efficiency, and Benchmarking", Springer , pp.343-370, 2023, *Advances in Spatial Science book series (ADVSPATIAL)*, 978-3-031-20339-8
- "Data and the Regulation of E-commerce: Data Sharing vs. Dismantling ", with Claire Borsenberger, Helmuth Cremer, Denis Joram, Jean-Marie Lozachmeur, in *The Economics of the Postal and Delivery Sector: Business Strategies for an Essential Service*, sous la direction de Pier Luigi Parcu, Timothy J. Brennan et Victor Glass, Springer Nature Switzerland AG, 2022
- "State aid to low-cost airlines: Worthwhile if durable?" with F. Marty, in Graham A., Nicole Adler N., Niemeier H.-M., Betancor O., Pais Antunes A., Bilotkach V., Calderón E.J., Martini G. Ed., **2020 Air Transport and Regional Development Policies**, Routledge, In press, 9780367533144

- "Platform competition: market structure and pricing. In: **The Changing Postal Environment: Market and Policy Innovation**" , Springer, with Borsenberger, Claire, Cremer, Helmuth, Lozachmeur, Jean-Marie (2020) Series ?Topics in Regulatory Economics and Policy? p. 225-240. ISBN 978-3-030-34532-7
- "Analyse économique de la régulation des redevances aéronautiques", 2016, technical report.
- "Analyse économique des enjeux de la logistique urbaine", 2016, technical report, IDEI.
- "La gratuité peut-elle avoir des effets anti-concurrentiels", with Frédéric Marty, **Ouvrage collectif**, édition Frison-Roche, 2013.
- "Financement de la Presse Française", with Helmuth Crémer, in "Libéralisation et Services Publics: Économie postale", **Economica**, 2010.
- "Analyse quantitative des externalités sur le marché de la presse: le cas français", with Claire Borsenberger, Marc Ivaldi and Catherine Vibes in "Libéralisation et Services Publics: Économie postale", **Economica**, 2010.

WORK IN PROGRESS

- "Do airlines adopt sustainable aviation fuels under modal competition?" with Sai Bravo-Melgarejo, work in progress 2024.
- " The design of insurance contracts for home versus nursing home Long-Term Care ", with Claire Borsenberger, Helmuth Cremer, Denis Joram, Jean-Marie Lozachmeur, TSE Working Paper, n° 24-1528, avril 2024.
- " From Turbulence to Sustainability: Green Technology Adoption in the Post-Shock Airline Industry" with Shangrong Chen, work in progress 2023.
- " Testing for fragility: a valuable public policy and an opportunity for postal operators ", with Claire Borsenberger, Helmuth Cremer, Denis Joram, Jean-Marie Lozachmeur, TSE Working Paper, n° 23-1433, mai 2023.
- "Modelling and estimating the airport program: A two-sided platform approach" with Christian Bontemps and Shangrong Chen, 2022. .
- "Modelling the impact of product differentiation, commercial revenues and till structure on competition and airport charges" with Augustin Lesgourgues, 2022.
- C. Borsenberger, H. Cremer, D. Joram, J-M. Lozachmeur and E. Malavolti (2022), ?E-commerce and parcel delivery: environmental policy with green consumers?, TSE Working Paper n° 22-1318.
- "Modelling technology changes in air transport in the presence of market shock: A passenger-based analysis" with Shangrong Chen, 2020.
- "Data and the regulation of e-commerce: data sharing vs. dismantling" Borsenberger, Claire, Cremer, Helmuth, Joram, Denis, Lozachmeur, Jean-Marie et Malavolti, Estelle (2020) TSE Working Paper, n. 20-1094, Toulouse.

- "Platform competition: market structure and pricing" with Borsenberger, Claire, Cremer, Helmuth, Joram, Denis, Lozachmeur, Jean-Marie (2019), TSE Working Paper, n. 19-1010, Toulouse.
- "Connectivity measurements to assess regional development in Europe", with P. Lezaud, 2017.
- "Air traffic development in ASEAN : An airport capacity analysis", with I. Laplace, 2015.

CONFERENCES
WITH
PRESENTATIONS

- Air transport conferences : ATRS (Air Transport Research Society), WCTRS (World Congress of the Transport Research Society) , TRA (Transportation Research Arena), ATARD (Air Transport and Regional Development)
- Industrial Organization Conferences: EARIE (European Association for Research in Industrial Economics), EEA (European Economic Association, ESEM (Econometric Society European Meeting) , ACE (Association for Competition Economists)

TEACHING
ACTIVITIES

Competition Policy (15h) 2020-

- Teaching, coordination
- Audience:
Master "Economics and Market Organization", Toulouse School of Economics

Industrial Organization (28h) 2012-

- Teaching, coordination
- Audience:
2nd year ENAC engineers till 2023
MsC Bergamo University

Air Transport Economics 2004-

- Master "Economics and Market Organization" (15h), Toulouse School of Economics
- Executive MBA, Tsinghua (8h)
- Master Public Action, Ecole Nationale des Ponts et Chaussées (4h), 2008
- ATC Controllers (15h), till 2006
- "Cour des Comptes" (6h), Jan. 2006

Microeconomics (17h) 2004-2024

- Coordination
- Teaching
- Development of tutorials
- "Jeu de marché": construction, organization of a simulation to introduce basic concepts in microeconomics
2nd year ENAC engineers

Serious Game on managing an airport (OPTIMAIRPORT-16h) 2017-

- Construction, teaching, coordination

- Audience:
2nd year ENAC engineers
Master Operationnal Research, ENAC and University of Toulouse

Strategy (60h) *2006-2011*

- Coordination
- Teaching
- Development of case studies
- Audience:
Aviation MBA, with LUIS Business School, Roma
3rd year ENAC engineers
2nd year Master of International Air Transport Operations Management
CAAC, Chinese Civil Aviation Administrators, 2006 (3h)

Intellectual Property Seminar (15h) *2008-2012*

- Coordination
- Teaching (5h)
2rd year ENAC engineers
ENAC employees

OTHER
ACTIVITIES

Organization of research conferences

- Conference Air transport and research in economics, DGAC (2014)
- Annual conference of the Association for Competition Economists (2012), local committee
- Annual conference of the European Association for Research in Industrial Economics (2008), local committee
- Winter IO seminar, TSE IO group, Ax les thermes, 2018, 2019, 2023.

Distinction

- Chevalier of the Palmes Académiques, 2017, French Ministry of Research and Education

Additional Information

- Elected Representative for the researchers and teachers of ENAC at the Conseil d'Administration (2013-)
- Présidente association VINCI (cultural association at ENAC)
- Responsible for the Karaté section at ENAC (ASMAG)
- President of the Karaté Do Shotokai section of Rangueil, Toulouse