

# Michela Bonani

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## Research Interests

Empirical Industrial Organization, Structural Econometrics.

## Academic Positions

2023- present	Post-doctoral Researcher, Department of Economics and Business ,Universitat Pompeu Fabra
2022- 2023	Post-doctoral Researcher, Department of Economics , ESSEC Business School

## Education

2017- 2023	<b>PhD in Economics</b> , Tilburg University, Tilburg Supervisors: Prof. T.J. Klein and dr. F. Schütt and dr. C.B.T. Walsh
2014	<b>MSc in Economics and Social Sciences</b> , Bocconi University, Milan
2011	<b>BSc in Management and Business Administration</b> , Bocconi University, Milan

## Working Papers

**Uniform vs Competing Standards: A Structural Analysis of the U.S. Wireless Telecommunications Industry**  
**Job market paper**

**Abstract:** Different regulations to impose compatibility have prompted fierce debates in a wide range of industries around whether a uniform standard is more beneficial than multiple competing standards because of the ambiguous welfare implications of compatibility. This paper studies the potential impact of unifying two incompatible standards for wireless networks on firms' coverage investment choices, profits, prices, and consumer welfare in the U.S. wireless telecommunications market from 2015 to 2018. I develop and estimate a structural model of consumer choices of wireless carriers and 3G coverage investment to quantify the impact of a compatible network. My model captures two main features of wireless standards. First, since different standards provide different services to consumers, the model allows consumers to prefer one standard. Second, it accounts for the positive network effects among firms under the same standard path. Using counterfactual experiments, I find that a uniform standard is the welfare superior policy, regardless of the technology chosen to unify the wireless network. Whereas the overall producer surplus is higher when moving to uniform wireless networks, not all firms are better off under a uniform network. The counterfactual analysis also underlines a heterogeneous effect of a single standard network on consumers: whether consumers benefit from compatibility depends on the technology chosen. The decline in the consumer surplus under a 3G Universal Mobile Telecommunication System (UMTS) is explained (1) by an increase of the equilibrium prices by two firms that does not compensate for the decline in the network coverages, (2) by customers with existing handsets being stranded with the UMTS standard.

**Standard-Setting, IPR Policies and the Incentives to Innovate: Evidence from the IEEE Patent Policy Update (*submitted*)**

**Abstract:** This paper investigates the effects of enforcing licensing requirements on firms' standard-related innovation by empirically analyzing the Institute of Electrical and Electronics Engineers' 2015 patent policy revision. Using a continuous difference-in-differences approach, I find that firms technologically further from the standards increased their patenting activity by 33% after the policy change, compared to an 18% rise for firms closer to the standards. The results reveal distinct effects on standard-essential patent (SEP) holders and non-SEP holders, suggesting that stricter licensing policies can reshape the patenting landscape, offering opportunities for some firms while creating challenges for others.

## Work in Progress

**The Social Welfare Implications of a Multimodal Technology: Evidence from BlaBlaModes**

## Pre-PhD Publications (in Italian)

Bonani, M., Mezza, L. (2015), "[La performance delle imprese attraverso i dati di bilancio](#)", in *Milano Produttiva 2015* (pp. 74-101), Bruno Mondadori Publishing, Milan.

Bonani, M. (2016), "[Una nuova forma di impresa: la start-up innovativa](#)", in *I&C/ No8*, Bruno Mondadori Publishing, Milan.

## Academic Presentations

2024	PSE/ESSEC Workshop: Platforms, Mobility, and the Sharing Economy (discussant); SWERIE IO Workshop (Stockholm School of Economics); 6th ECOP workshop; 1st Spanish IO Day (discussant); FCC Economics Seminar (scheduled); 7TH UNIBG IO Winter Symposium (scheduled)
2023	Third Annual Empirical Conference on Standardization (Northwestern Pritzker School of Law ); Universitat Pompeu Fabra (Internal Applied Lunch Seminar; Internal Microeconomics Seminar); ESSEC Business School
2022	Second Annual Empirical Conference on Standardization (Northwestern Pritzker School of Law ); Universidad Carlos III de Madrid; Spring Meeting of Young Economists; CLEEN2022 Conference; EARIE 2022; Tilburg University (SEG lunch; TILEC seminar; Internal workshop seminar); Copenhagen Business School; Compass Lexecon; ESSEC Business School; DICE Research seminar; ZEW (Digital Economy Unit)
2021	CLEEN2021 Conference; TILEC Workshop on Economics of Patents and Standards; ENTER Jamboree (discussant); Tilburg University (SEG lunch; TILEC seminar; Internal workshop seminar)
2020	ENTER Jamboree (cancelled); Tilburg University (SEG lunch; TILEC Annual Retreat; Internal workshop seminar)
2019	Tilburg University (SEG lunch; TILEC seminar)
2018	Tilburg University (SEG lunch; TILEC seminar)

## Summer School

June 2018	Dynamic Structural Econometrics Summer School (DGPE) <b>University of Copenhagen</b> , Copenhagen, Denmark
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## Teaching

Spring 2022	Business Economics (graduated), ESSEC Business School
Fall 2021	Econometrics for ECO (undergraduate), TA for Prof. T.J. Klein, Tilburg University
Fall 2020	Econometrics for ECO (undergraduate), TA for J.R. Campbell and Prof. T.J. Klein, Tilburg University
Spring 2020	Industrial Economics (undergraduate), TA for F. Schütt and E. Öztürk, Tilburg University Data communication for policy analysis (undergraduate), Lecturer, Tilburg University
Spring 2019	Industrial Economics (undergraduate), TA for F. Schütt and E. Öztürk, Tilburg University
Spring 2018	Industrial Economics (undergraduate), TA for F. Schütt and E. Freddi, Tilburg University
Fall 2017	Microeconomics: Theory and Analysis (undergraduate), TA for B. van Leeuwen and E. Freddi, Tilburg University

## Additional Information

Programming:	Python, Matlab, Stata, $\LaTeX$
Languages:	Italian (Native), English (Fluent), Spanish (Beginner)
Other Activities:	Member of the Graduate Students' Society at Tilburg University (2017-2022) Junior member of TILEC at Tilburg University (2017- present ) Economic PhDs Representative, Graduate Students' Society Board (2018-2020)

## References

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