

# Satoshi Fukuda

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## Contact Information

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## Academic Positions

- 2017 Sep. - Assistant Professor, Department of Decision Sciences  
Bocconi University, Milan, Italy
- 2017 Sep. - Affiliate, IGIER (the Innocenzo Gasparini Institute for Economic Research)  
Bocconi University, Milan, Italy

## Education

- 2011-17 Ph.D. in Economics, University of California, Berkeley
- 2009-11 Master of Policy Studies, Graduate School of Policy Studies, Chuo University, Tokyo, Japan  
Fields of Study: Economics and Law
- 2005-09 Bachelor of Policy Studies, Faculty of Policy Studies, Chuo University, Tokyo, Japan  
Fields of Study: Economics and Law

## Editorial Boards

Associate Editor, International Journal of Economic Theory, since September 2021

## Research Fields

Microeconomic Theory, Game Theory, Information Economics, Organizational Economics, Mathematical Economics

Mechanism Design/Contract Theory, Dynamic Games, Epistemic Game Theory

## Published/Forthcoming Papers

- “On the Consistency among Prior, Posteriors, and Information Sets” Economic Theory, Forthcoming
- “The Existence of Universal Qualitative Belief Spaces” Journal of Economic Theory, 216 (2024): 105784
- “Epidemics with Behavior” with Christoph Carnehl and Nenad Kos, Journal of Economic Theory, 207 (2023): 105590
- “Unawareness without AU Introspection” Journal of Mathematical Economics, 94 (2021): 102456
- “Negotiations with Limited Specificifiability” with Yuichiro Kamada, American Economic Journal: Microeconomics, 14 (2022): 216-244
- “Formalizing Common Belief with No Underlying Assumption on Individual Beliefs” Games and Economic Behavior 121 (2020): 169-189

“Epistemic Foundations for Set-algebraic Representations of Knowledge” *Journal of Mathematical Economics* 84 (2019): 73-82

“From Equals to Despots: The Dynamics of Repeated Decision Making in Partnerships with Private Information” with Vinicius Carrasco and William Fuchs, *Journal of Economic Theory* 182 (2019): 402-432

## Conference Proceedings

“Are the Players in an Interactive Belief Model Meta-certain of the Model Itself? (Extended Abstract)” *Electronic Proceedings in Theoretical Computer Science*, 335 (2021): 155-170

“On the Consistency among Prior, Posteriors, and Information Sets (Extended Abstract)” *Electronic Proceedings in Theoretical Computer Science*, 297 (2019): 189-205

## Working Papers

“Rules versus Disclosure: Prudential Regulation and Market Discipline” with William Fuchs and Daniel Neuhann

“On the Axiomatization of an Unawareness Structure by Knowing-Whether Operators” R & R at *Journal of Mathematical Economics*

“Demand-System Asset Pricing: Theoretical Foundations” with William Fuchs and Daniel Neuhann

“Shaping Institutions” with William Fuchs

“Unprecedented” with Yuichiro Kamada

“Who to Listen to? A Model of Endogenous Delegation” with William Fuchs and Mahyar Sefidgaran

“Time-varying Cost of Distancing: Distancing Fatigue and Lockdowns” with Christoph Carnehl and Nenad Kos

“Are the Players in an Interactive Belief Model Meta-certain of the Model Itself?”

“Topology-free Constructions of a Universal Type Space as Coherent Belief Hierarchies”

“A Type Space Approach to Hierarchies of Beliefs, Preferences, and Expectations”

“The Hierarchical Construction of a Universal Qualitative Belief Space”

“The Equivalence between the Type-Space and Belief-Space Approaches”

“Representing Higher-Order Non-Additive Beliefs through  $p$ -Belief Operators”

“Strategic Games with Possibility Correspondence Models of Unawareness”

“An Information Correspondence Approach to Bridging Knowledge-Belief Representations in Economics and Mathematical Psychology”

“Can the Crowd be Introspective? Modeling Distributed Knowledge from Collective Information through Inference”

“ASEAN Financial Integration” (IMF Working Paper 15/34) with Geert Almekinders, Alex Mourmouras, Jianping Zhou, and Yong Sarah Zhou

## Teaching Experience

Mathematics - Preparatory Course (Preparatory for “Math Camp”), PhD Core Course for Business Administration and Management, Economics and Finance, and Social and Political Science Programs, Bocconi U. (Fall 2022, 2023)

Introduction to Mathematics (“Math Camp”), PhD Economics and Finance Core Course, Bocconi U. (Fall 2021, 2022, 2023)

Introduction to Real Analysis I (Measure and Integration Theory), PhD Statistics Core Course, Bocconi U. (Fall 2017, 2018, 2019)

Mathematics: General (Single- and Multi-variable Differential Calculus and Linear Algebra), International Economics and Finance Program, Bocconi U. (Fall 2017, 2018, 2019, 2021, 2023); International Economics and Management Program, Bocconi U. (Fall 2021, 2022, 2023)

Mathematics: Theory and Methods (Differential and Integral Calculus and Linear Algebra), Economic and Social Sciences Program, Bocconi U. (Fall 2017, 2018, 2019)

Independent Studies/Field Studies (Spring 2019, Fall 2019, Spring 2020)

## **Other Teaching Experience**

Guest Lecture, Department of Economics, UC Berkeley (February 2016)

Dynamic Game Theory and Applications (Graduate)

Teaching Assistant, Faculty of Policy Studies, Chuo University (2009-10)

Calculus, Linear Algebra, Game Theory I, Game Theory II

## **Other Employment/Services**

Theory and Experiments Seminar Co-Organizer, Dept. of Decision Sciences, Bocconi U. (2018/19, 19/20, 21/22)

Junior Hiring Interviewing Committee, Dept. of Decision Sciences, Bocconi U. (2017/18-19/20, 21/22)

Microeconomics Theory Seminar Coordinator, Dept. of Economics, UC Berkeley (Fall 2015, Spring 2016)

Summer Intern, International Monetary Fund, Washington D.C. (Summer 2014)

## **Seminar/Conference Presentations/Attendance**

2024 (incl. scheduled) Spring Workshop on Economic Theory (Bocconi), Virginia Tech, Bocconi (Decision Sciences and Economics, Internal)

2023 Bocconi (Decision Sciences and Economics, Internal), Cardiff Business School, Workshop on Economic Theories of the Information Society (CERGE-EI), GSE-OSIPP-ISER Joint Conference in Economics (Osaka, Online), SWET, The 8th Hitotsubashi Summer Institute, SAET (Paris), Conference on Economic Design (Girona), Spring Workshop on Economic Theory (LUISS), Virginia Tech, Midwest Economic Theory and International Economics Meetings (U. Tennessee Knoxville), Rochester, NBER Organizational Economics Working Group, SUNY Buffalo, UT Austin, UT Dallas (Jindal)

2022 Zoom Mini-Workshop on Unawareness (New Developments in Epistemic Logic with Unawareness, Online, Attendance), Cincinnati, Midwest Economic Theory and International Economics Meetings (U. Notre Dame), European Summer Meeting of the Econometric Society (Bocconi), LOFT 14 (Groningen), SING 17 (Online), North American Summer Meeting of the Econometric Society (U. Miami), Conference on Economic Design (Padova), Zoom Mini-Workshop on Unawareness (Decision Theory with Unawareness, Online, Attendance), 2022 NBER/CEME Decentralization Conference (Bocconi-Columbia-Michigan-Stanford/CASBS, Attendance)

2021 UT Austin, Bocconi (Decision Sciences, Internal), GRASS Workshop XV (Università Cattolica del Sacro Cuore di Milano), The 16th European Meeting on Game Theory (SING 16, Online), TARK XVIII (Contributed and Rump Sessions, Online), Zoom Mini-Workshop on Unawareness (Financial Markets with

Unawareness, Online, Attendance), Kyoto University (Institute of Economic Research, Online), Rochester (Online), IMF and Bank of Thailand (CDOT-PIER joint seminar, Online)

2020 Singapore Management University (Online), SAET (an independently organized “Dynamic Games and High Order Beliefs” session, Online), Michigan (Online), Bocconi (Decision Sciences and Economics, Internal, Online), CTWZ (Contract Theory Workshop on Zoom, Online)

2019 European Winter Meeting of the Econometric Society (Erasmus School of Economics, Rotterdam), Rochester, Japanese-German Workshop on Contracts and Incentives (LMU Munich, Attendance), SWET/DTW (Summer Workshop on Economic Theory/Decision Theory Workshop, Otaru), TARK XVII (Theoretical Aspects of Rationality and Knowledge, Toulouse School of Economics, Poster and Rump sessions), ESSET (European Summer Symposium in Economic Theory, Gerzensee), SAET (Society for the Advancement of Economic Theory, Ischia)

2018 LOFT 13 (Logic and the Foundations of Game and Decision Theory, Bocconi), Models of Bounded Reasoning in Individuals and Groups (Lorentz Center, Leiden)

2017 Workshop on Reasoning About Strategic Interaction and Emotions (Bocconi), Bocconi (Decision Sciences, Internal), The 3rd Hitotsubashi Summer Institute, Yokohama National U, Paris School of Economics (Bounded Rationality and Behavioral Economics Summer School), Kansas Workshop on Economic Theory, Rochester, Bocconi (Decision Sciences), Queensland, AEA-ASSA (Chicago, Attendance)

2016 UC Berkeley, Waseda

2015 The 26th Jerusalem School in Economic Theory (the Hebrew University of Jerusalem, Poster)

2014 Interdisciplinary Workshop on “Game Theory at UC Davis” (UC Davis, Attendance)

## Conference Organization

2024 LOFT 15, a program committee member

2022 LOFT 14, a program committee member

2018 LOFT 13, a program committee member

## Awards/Fellowships

2021, 22 Editors’ Awards for Excellence in Reviewing, European Journal of Operational Research

2019- Visiting Faculty Fellow, the Policy Studies Forum, Tokyo

2016-17 UC Berkeley Doctoral Completion Fellowship

2015,16 Graduate Division Summer Grant, UC Berkeley

2012-14 Japan-IMF Scholarship, International Monetary Fund, Washington D.C.

2011-12 Scholarship, 21st Century Culture and Science Foundation (Kikawada Foundation), Tokyo

2011 Valedictorian, Graduate School of Policy Studies, Chuo University

2009-11 Full Scholarship (awarded to one student), Graduate School of Policy Studies, Chuo University

2007,08,09 Academic Excellency Award, Chuo University

## Refereeing

Annals of Operations Research, Economic Theory, Economics Letters, European Journal of Operational Research, Games and Economic Behavior, International Journal of Economic Theory, ISF (Israel Science Foundation), Journal of Applied Non-Classical Logics, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of Political Economy, LOFT (2018, 2022, 2024), Management

Science, Review of Economic Studies, SIAM Journal of Optimization, Synthese, TARK (2019, 2023), Theoretical Economics, Theory and Decision

## Other Information

Languages: English (fluent), Japanese (native)  
Citizenship: Japan  
Computing Skills: MATLAB, Mathematica  
Affiliation: American Economic Association, Econometric Society, Society for the Advancement of Economic Theory

## References

Prof. David Ahn (Thesis Advisor)  
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