

# Ignacio Ojea Quintana

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## Areas of Interest

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### Areas of Specialization

Philosophy of Science, Social Epistemology, Philosophy of AI

### Areas of Competence

Data Science, Logic, Philosophy of Technology, Philosophy of Mind, Social and Political Philosophy, Agent Based Modeling.

## Current Position

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### Munich Center for Mathematical Philosophy, Ludwig Maximilian University

*Assistant Professor*

2022

## Previous Positions

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### The Australian National University

*Research Fellow*

2019

### Columbia University

*Contemporary Civilization Instructor*

2017

## Education

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### Columbia University

Ph.D., Philosophy

2019

*Committee:* Philip Kitcher (advisor), Kevin Zollman, Eleonora Cresto, Achille Varzi, Jessica Collins.

M.Phil., Philosophy

2015

M.A., Philosophy

2014

### University of Buenos Aires

M.A., Philosophy of Logic

2012

B.A., Philosophy and minor in Mathematics (*cum laude*)

2010

### Taller Escuela Agencia (TEA)

B.A., Journalism

2004

### Johns Hopkins University via Coursera

Data Analysis Specialization

2020

### University of Alberta via Coursera

Reinforcement Learning Specialization

2020

### DeepLearning.AI

Tensorflow Developer Certification

2021

## Publications

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“**Polarization and trust in the evolution of vaccine discourse on Twitter during COVID-19**,” I. Ojea Quintana, R. Reimann, M. Cheong, M. Alfano, and C. Klein, *PLOS ONE*, 2022. I was involved in the data processing, data analysis, writing, and conceptualization.

“**Attention and counter-framing in the Black Lives Matter movement on Twitter**,” C. Klein, R. Reimann, I. Ojea Quintana, M. Cheong, M. Ferreira, and M. Alfano, *Nature Humanities & Social Sciences Communication*, 2022. I was involved in the data processing, data analysis, and conceptualization.

“**Stochastic Policies in Morally Constrained (C-)SSPs**,” C. Evans, C. Benn, I. Ojea Quintana, P. Robinson, and S. Thiebaut., Proceedings of the 2022 AAAI/ACM *Conference on AI, Ethics, and Society*, 2022. I was involved in conceptualization, proving formal results, simulating, and writing.

“**Radical Pooling and Imprecise Probabilities**,” I. Ojea Quintana, *Erkenntnis*, 2022.

“**The affiliative use of emoji and hashtags in the Black Lives Matter movement: A Twitter case study**,” M. Alfano, R. Reimann, I. Ojea Quintana, A. Chan, M. Cheong, and C. Klein, *Social Science Computer Review*, 2021. I was involved in the data processing, data analysis, writing, and conceptualization.

“**The Coordination Dilemma For Epidemiological Modelers**,” I. Ojea Quintana, S. Rosenstock, and C. Klein, *Biology and Philosophy*, 2021. I was involved in conceptualization, proving formal results, simulating, and writing.

“**Learning and pooling, pooling and learning**,” R. Stewart and I. Ojea Quintana, *Erkenntnis*, 2018. I was involved in conceptualization, proving formal results, and writing.

“**Probabilistic Opinion Pooling with Imprecise Probabilities**,” R. Stewart and I. Ojea Quintana, *Journal of Philosophical Logic*, 2018. I was involved in conceptualization, proving formal results, and writing.

“**On Semantic Gamification**,” I. Ojea Quintana, *Lecture Notes in Computer Science*, Proceedings of the Indian Conference for Logic and its Applications (ICLA), 2017.

“**La Paradoja de Newcomb**,” I. Ojea Quintana, *Paradojas, Paradojas y más Paradojas*, Eduardo Barrio (editor), College Publications, 2014.

“**The structural collapse approach reconsidered**,” I. Ojea Quintana, *Análisis Filosófico*, 2012.

“**Non-standard models and Yablo’s Paradox**,” I. Ojea Quintana, *Cuadernos de Filosofía*, 2008.

## In Progress

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### Submitted

“**The Use of Generics about Political Groups: A Comparative Analysis of Twitter Data**”.

“**The Technological Disruption of Epistemic Authorities**,” I. Ojea Quintana.

“**Exploratory Data Analysis: Between Discovery and Justification**,” I. Ojea Quintana.

### Under Development

“**Women, Life, Freedom on Twitter: Anecdotal language and social memory**”.

“Fitting Network Generating Mechanisms to Data”.

“Data Driven Formal Social Epistemology”.

## References

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### Main References

Philip Kitcher, PhD Advisor, *Columbia University*

Colin Klein, Principal Investigator, *The Australian National University*

Stephan Hartmann, Philosophy of Science Chair, *Ludwig Maximilians University in Munich*

### Additional References

Sylvie Thiebaut, computer science, *The Australian National University*

Kevin Zollman, *Carnegie Mellon University*

Achille Varzi, teaching letter, *Columbia University*

Lexing Xie, computer science, *The Australian National University*

Eleonora Cresto, *The University of Buenos Aires*

Patricia Kitcher, teaching letter, *Columbia University*

Rohit Parikh, *City University of New York*

## Selected Talks and Conferences

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- “The Use of Generics about Political Groups: A Comparative Analysis of Twitter Data,” Cambridge-LMU Philosophy of Science Conference, Cambridge 2023.
- “The Technological Disruption of Epistemic Authorities,” Philip Kitcher’s Retirement Conference, Columbia University, New York 2022.
- “Exploratory Data Analysis: Between Discovery and Justification,” Philosophy of Science Association Conference, Pittsburgh 2022.
- “Polarization and trust in the evolution of vaccine discourse on Twitter during COVID-19,” Workshop Digital Trust, Australian National University, Canberra, 2022.
- “The Coordination Dilemma for Epidemiological Modelers,” ANU Philosophy Seminar, Macquarie University Philosophy Seminar, and University of Sydney Philosophy Seminar. 2021.
- “Schelling segregation in (online) social networks,” Workshop in Social and Behavioural Dynamics of Attention, Australian National University, Canberra, 2020.
- “Schelling Segregation in Social Media,” University of California Irvine, 2019.
- “Altruistic and Spiteful Utilities,” Seminar in Logic, Games and Society, CUNY, New York, 2018.
- “On radical pooling and consensus as common ground,” Determinism and Probability Workshop (organizer: Christian List), London School of Economics, 2017.
- “On Altruistic Utilities,” *Show ’n Tell* Seminar, Carnegie Mellon University, 2017.
- “On Semantic Gamification,” 7th Indian Conference on Logic and its Applications (ICLA 2017), Kanpur, 2017.
- “Probabilistic Opinion Pooling with Imprecise Probabilities,” en The Institute of Mathematical Sciences (IMSc, Chennai), (invited by Prof. R. Ramanujam), Chennai, 2016.
- “On Semantic Gamification,” International Conference of The Indian Mathematics Consortium (TIMC), in cooperation with American Mathematical Society (AMS), Banaras Hindu University, Varanasi, 2016.
- “Consensus Pooling in the Presence of Radical Disagreement,” International Rationality Summer Institute, Aurich, 2016.

- “Game Semantics for some Non Classical Logics,” Logic and the Foundations of Game and Decision Theory Conference, 2016.
- “Game Semantics for (some) Many-Valued Logics,” Munich Center for Mathematical Philosophy, 2015.
- “Probabilistic Opinion Pooling and Some Neglected Virtues of Imprecise Probabilities,” (joint work with Rush Stewart) University of Regensburg, 2015.
- “Credibility and the stability of what is conveyed,” CUNY Pragmatics Workshop in Relevance, Games, and Communication, 2014.
- “Games, Logic and Language,” poster presentation at the International Game Theory and Economic Applications of the Game Theory Society , Sao Paulo 2014.
- “At risk for paradox,” Third New College Logic Meeting in Oxford, 2012.

## Teaching

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### **Professor** (*Ludwig Maximilian University, Munich Center for Mathematical Philosophy*)

- Central Topics in Philosophy of Science (M.A.), Winter 2023.
- Philosophy of Natural Language Processing (M.A.), Summer 2023.
- Philosophy of Technology (B.A.), Summer 2023.
- Philosophy of Artificial Intelligence (B.A), Winter 2022, Winter 2023.
- Philosophy of Data Science (M.A.), Winter 2022

### **Convener** (*Australian National University*)

- Philosophy of Mind, Fall 2022

### **Tutor** (*Australian National University*)

- Logic and Critical Thinking, Fall 2020 (Convener: Colin Klein)

### **Instructor** (*Columbia University*)

- Contemporary Civilization (Academic Year 2018-2019)  
Discussion-driven “great books” seminar course covering major philosophical texts in the Western tradition. Authors read include Plato, Aristotle, Augustine, Al-Ghazali, Ibn Tufayl, Aquinas, Descartes, Luther, Machiavelli, Hobbes, Locke, Hume, Rousseau, Kant, Wollstonecraft, Mill, Nietzsche, Marx, Du Bois, Foucault, Arendt, and Rawls.
- Contemporary Civilization (Academic Year 2017-2018)
- Symbolic Logic (Summer 2017)  
An intensive advanced introduction to sentential and first-order logic for college, general studies, and visiting students. Due to the condensed nature of the course, the focus was on the main syntactic and semantic properties of the languages and on deductive proofs.

### **Teaching Assistant** (*Columbia University*)

- Philosophy of Science, Spring 2016 (Instructor: Daniel Cloud)  
Guest lecture: Frank Knight on risk and uncertainty, and the Ellsberg Paradox.
- Methods and Problems, Fall 2015 (Instructor: David Albert).  
Guest lecture: David Lewis on The Paradoxes of Time Travel.
- Symbolic Logic. Spring 2015 (Instructor: Achille Varzi), Fall 2014, Spring 2014 (Instructor: Tamar Lando), Fall 2013 (Instructor: Jeffrey Helzner).  
Guest lecture: Truth Functional Completeness of the propositional connectives.

### Other Teaching Experience

- Teaching Assistant in Symbolic Logic. Spring 2011, Fall 2011, Spring 2012 (Instructor: Eduardo Barrio) - *University of Buenos Aires*.
- *Rethink* (Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2018)  
Philosophical discussion sections with court-involved youth at the Harlem Justice Community Program, the Fortune Society and SoBRO; and with women who have been victims of sexual trafficking and teenagers from violent homes at Sanctuary for Families. Subjects vary, but include concepts like justice, punishment, causation, and equality. This program won the 2015 *Prize* for Excellence and Innovation in Philosophy from the American Philosophical Association.

## Awards and Fellowships

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### Awards

- Outreach program *Rethink*: American Philosophical Association *Prize* for Excellence and Innovation in Philosophy Programs 2015.
- David H. Siff Philosophy of Science Award, 2016.
- David H. Siff Philosophy of Science Award, 2015.

### Visitorships and Travel Grants

- *Cambridge University* visit in the context of the Cambridge-LMU strategic partnership grant on Decision Theory and the Future of Artificial Intelligence, February 2023.
- *London School of Economics* and Columbia University Partnership PhD Mobility Grant to visit the Center for Philosophy of Natural and Social Sciences, Summer 2017.
- *Carnegie Mellon University* Graduate Research Visitorship Grant, Philosophy Department, Spring 2017.
- Funded participant in the 7th *Indian Conference on Logic and its Applications* (ICLA 2017), Kanpur, India 2017.
- Funded participant at the *International Rationality Summer Institute* (IRSI), Aurich, Germany, 2016.
- Visiting Fellow at the *Munich Center for Mathematical Philosophy*, June 2015.
- Presenter at the International Workshop on Game Theory [IGWTS], Sao Paulo University, July 2014.
- Visiting student at the *Massachusetts Institute of Technology*, Spring 2011.

### Fellowships

- Contemporary Civilization Instructor Fellowship, Columbia University, 2017-2019.
- Dean's Fellow in the Department of Philosophy, Columbia University, 2012-2017.

- CONICET - Argentina National Science Institute, Doctoral Fellowship, 2010-2012.

## Service

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### Referee

*Annals of Mathematics and Artificial Intelligence, European Journal for Philosophy of Science, Philosophy of Science, Erkenntnis, Economics and Philosophy, British Journal for the Philosophy of Science, Synthese, Episteme.*

### Organizer

- Cambridge-LMU Philosophy Retreat, March 2024.
- Cambridge-LMU Philosophy of Science and AI Workshop, September 2023.
- Columbia Workshop on Probability and Learning, April 2017.
- First [Latinx Philosophers Conference](#), April 2016.
- Columbia Workshop on Group Agency and Social Epistemology, May 2016.
- Science, Value, and Pragmatism Conference (in honor of Philip Kitcher), February 2016.
- Columbia Pragmatism Colloquium talks: April 2016 (Cornel West), October 2014 (Richard Bernstein).
- Columbia/NYU Graduate Student Conference, 2013.

### Graduate Student Representative

Philosophy Department, Columbia University, (2014 - 2015).

## Skills and Languages

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### Technical Skills [[Github](#)]

- Data Analysis with *R* and *Python*.
- Agent Based Modelling with *Netlogo*.
- Natural Language Processing with *Python*.
- Network Analysis with *Gephi*.
- Reinforcement Learning with *Python*.
- Deep Learning with *Tensorflow*.
- *Starcraft* aficionado.

### Languages

- Spanish (native), English (fluent), German (basic), French (reading basics).