

Curriculum Vitae

Michał Sikorski

Personal Informations

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Bachelor Thesis

Title *Re-thinking probabilistic theories of conditionals*
Supervisors Jarosław Mrozek, Rafał Urbaniak
Description In this thesis, I argue that, contrary to views inspired by the Adams-style probabilistic approach to conditionals, conditionals are not merely assertable (or not) but can also be true or false. I further propose a reinterpretation of the probabilistic approach in which the main arguments against the truth-aptness of conditionals do not hold.

Master Thesis

Title *A probabilistic truth-conditional semantics for indicative conditionals*
Supervisors Max Kölbel, José Martínez
Description In this thesis, I develop a novel version of probabilistic semantics for simple conditionals. Unlike the traditional approach, formulated by Ernest Adams in *The Logic of Conditionals*, my framework assigns truth values to conditionals. This modification allows the analysis to be extended to cases involving the non-conditional embedding of conditionals and, in principle, to nested conditionals.

Doctoral Thesis

- Title *Conditionals, Causal Claims, and Objectivity*, defended with honors
- Supervisors Jan Sprenger
- Reviewers Vincenzo Crupi, Igor Douven, Julian Reiss
- Description In this thesis, I pursue two distinct lines of inquiry. The first part focuses on indicative conditionals, examined from an empirically informed perspective. The second part addresses classical topics in the philosophy of science, specifically, scientific objectivity and the role of values in science, considered in light of recent methodological developments related to the Replication Crisis.

Education

- 2010–2013 **Bachelor of Philosophy**, *University of Gdańsk*.
- 2014–2015 **Master of Analytic Philosophy**, *University of Barcelona*.
- 2016–2017 **PHD studies as a member of Jan Sprenger's ERC Project *Making Scientific Inferences More Objective***, *University of Tilburg*.
- 2017–2020 **PHD studies as a member of Jan Sprenger's ERC-funded project *Making Scientific Inferences More Objective* continues**, *University of Turin*.

Past positions

- 2020–2021 **Postdoc in Rafał Urbaniak's NCN-funded project *Conceptual, formal and practical aspects of forensic and judicial applications of probabilistic tools***, *Gdańsk University*.
- 2021–2023 **Postdoc in Frank Zenker's NCN-funded project *Theory-Reconstruction in the Empirical social and behavioral sciences (TESBS)***, *Warsaw University of Technology*.

Current position

- 2023– **Postdoc in Alexander Gebharder's FINO-funded project *Controlling and Utilizing Uncertainty in the Health Sciences***, *Marche Polytechnic University, Italy*.

Publications

14. Sikorski, M., & Gebharder, A. (2025). The Criminalist's Paradox as a Counterexample to the Principle of Total Evidence, forthcoming in the *British Journal for the Philosophy of Science*.
13. Sikorski, M., & Liu, D. (2025). Non-epistemic Values and the Automation of Science, forthcoming in the *Journal for General Philosophy of Science*.
12. Sikorski, M., Gebharder, A., & Osimani, B. (2025). Redefining Representativeness of a Sample in Causal Terms. *Journal of Evaluation in Clinical Practice*, 31(4).

11. Sikorski, M., van Dongen, N., & Sprenger, J. (2024). Causal Conditionals, Tendency Causal Claims and Statistical Relevance. *Review of Philosophy and Psychology*, 16(1), 345–370.
10. Sikorski, M., & Hominis, O. (2024). Emotions in Conceptual Spaces. *Philosophical Psychology*, 31(4), 2865–2891.
9. Sikorski, M. (2024). Values, Bias and Replicability. *Synthese*, 203(164), 1–25.
8. Sikorski, M., & Andreoletti, M. (2023). Epistemic Functions of Replicability in Experimental Sciences: Defending the Orthodox View. *Foundations of Science*, 28(4), 1071–1088.
7. Sikorski, M. (2023). Rethinking the Acceptability and Probability of Indicative Conditionals. In S. Kaufmann, D. E. Over, & G. Sharma (Eds.), *Conditionals: Logic, Linguistics and Psychology* (pp. 103–137). Springer International Publishing.
6. Sikorski, M. (2022). Is Forensic Science in Crisis? *Synthese*, 200(3), 1–34.
5. Sikorski, M. (2022). The Ramsey Test and Evidential Support Theory. *Journal of Logic, Language and Information*, 31(3), 493–504.
4. Sikorski, M. (2022). A Probabilistic Truth-conditional Semantics for Indicative Conditionals. *Semiotic Studies*, 35(2), 69–87.
3. van Dongen, N., & Sikorski, M. (2021). Objectivity for the Research Worker. *European Journal for Philosophy of Science*, 11(3), 1–25.
2. Sikorski, M. (2021). Minimal Theory of Causation and Causal Distinctions. *Axiomathes*, 32, 53–62.
1. Hirvonen, S., Karczewska, N., & Sikorski, M. (2019). On Hybrid Expressivism about Aesthetic Judgments. *Grazer Philosophische Studien*, 96(4), 541–568.

Publications in progress

5. Gebharter, A., & Sikorski, M., The Relevance Principle from a Causal Perspective, Major Revisions in *European Journal for Philosophy of Science*.
4. Gebharter, A., Feldbacher-Escamilla, C. & Sikorski, M., A Causal Theory of Suppositional Reasoning, Major Revisions in *Philosophical Studies*.
3. Gebharter, A., Osimani, B., Sikorski, M., & Zhang Z., What you should not tell your doctor if you are asking for a second opinion, under review in *Ratio*.
2. Gebharter, A., Osimani, B., Sikorski, M., D'Olimpio, E., & Zhang Z., A causal account for estimating effects across populations when no causal information is available, under review in *Philosophy of Science*.

1. Sikorski, M., Marusic, A., Stewart, A., Curci, A., Stanford, S. C., Bernard, R., Weissgerber, T. L., Richter, H., & Van Dongen, N. N. N., Consensus-based Checklist for Assessing Scientific Objectivity, under review in *Royal Society Open Science*.

Honours and Awards

- 2019 Travel Scholarship for Values in Medicine, Science, and Technology Conference in Dallas, USA.
- 2016-2020 Full PhD Scholarship in Jan Sprenger's ERC Project "Making Scientific Inferences More Objective".
- 2018 Scholarship for participation in Philosophy & Physical Computing summer workshop at Virginia Tech, Blacksburg, USA.
- 2015 "The Best Presentation" award during VII Sopockie Forum Młodych (Seventh Sopot Conference of Young Scientists), Sopot, May 29.
- 2010-2013 Scholarship "For the Best Students", Gdańsk University.

Invited Presentations

- 2025 "Consensus-based Checklist for Assessing Scientific Objectivity", Research Colloquium of Gerhard Schurz and Christoph Schamberger, Heinrich-Heine-University, Düsseldorf, 27 May.
- 2024 "Consensus-based Checklist for Assessing Scientific Objectivity", Pharmacology 2024, Harrogate (UK), 10-12 December.
- 2024 "Redefining Representativeness of a Sample in Causal Terms", SOPhiA 2024 - Salzburg Conference for Young Analytic Philosophy, Salzburg (Austria), 11-13 September.

Selected Conference Presentations (Refereed)

- 2025 "A Three-Layer Model for Evidence-Based Policy", APPSA-LMPST Taiwan 2025, Taipei (Taiwan), 17-19 June.
- 2025 "Criminalist's Paradox as a Counterexample to Principle of Total Evidence", Congress of the German Society for Philosophy of Science 2025, Erlangen, 24-26 March.
- 2024 "Criminalist's Paradox as a Counterexample to Principle of Total Evidence" (poster presentation), 29th Biennial Meeting of the Philosophy of Science Association, New Orleans (USA), 14-17 November.
- 2023 "Is Forensic Science in Crisis?" 11th International Conference on Forensic Inference and Statistics, Lund (Sweden), 12-15 June.
- 2022 "Emotions in Conceptual Spaces" DUCOG 2022 Dubrovnik (Croatia), 18-21 May.

- 2022 “Non-epistemic Values and the Automation of Science” Machines of Change: Robots, AI and Value Chang workshop, Delft (Netherlands), 1-3 February.
- 2021 “Should Forensic Science be Values-Free?”, PGSA@UT Philosophy Conference Knoxville (USA), 13–14 March.
- 2019 “A practical introduction to current philosophy of science”, SIPS2019, Rotterdam (Netherlands), 7-9 June.
- 2019 “Values, Bias and Replicability”, Values in Medicine, Science, and Technology Conference 2019, Dallas (USA), 23-25 May.
- 2019 “Objectivity for the Research Worker”, Biases in Science, Munich (Germany), 10-12 April.
- 2018 “Causal Strength, Tendency Causal Claims, and Indicative Conditionals”, The Fourth Taiwan Philosophical Logic Colloquium, Taipei (Taiwan), 15-17 November.
- 2017 “The Ramsey Test and Evidential Support Theory”, European Congress of Analytic Philosophy, Munich (Germany), 21-26 August.
- 2015 “A probabilistic truth-conditional semantics for simple conditionals”, Entia et Nomina 2015 conference, Kraków (Poland), 9-11 September.
- 2013 “Samoakceptowalność i błędokolistość w kontekście zasad weryfikacji” (Self-acceptance and Circularity in Context of Verification Principles), Philosophical Workshops in Pobierowo, Pobierowo (Poland), 9-11 May.

Teaching Experience

- 2020–2021 Logic course for Geology Students, University of Gdańsk, Poland.
- 2024, 2025 “Foundations of the Scientific Method” course for Medical Students, Marche Polytechnic University, Italy.

Organized conferences

- 2024 “Probabilistic Reasoning in the Sciences” Marche Polytechnic University, Ancona (Italy), 29-31 August.

Volunteering Experience

- 2024–Present Editor of a topical collection titled “Probabilistic Reasoning in the Sciences”.
- 2020–Present Refereeing for Journals, including *Erkenntnis*, *Philosophy of Science*, *Synthese*, *European Journal for Philosophy of Science* and *Thinking and Reasoning*.
- 2016–Present Editor of a leaf category “Truth-Conditional Accounts of Indicative Conditionals” on PhilPapers.