

**DANIEL KOSTIC**  
**Curriculum Vitae**  
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Visiting Lecturer  
University of Groningen / Faculty of Philosophy /  
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**HIGHLIGHTS**

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- AOS: General philosophy of science; philosophy of neuroscience, cognitive science, and AI; philosophy of mind; metaphysics; epistemology.
- AOC: Philosophy of language; philosophy of biology and ecology.
- 27 publications in the world leading philosophy journals such as *Philosophy of Science*, *Synthese*, as well as in some of the top tier science journals such as *Philosophical Transactions of the Royal Society B: Biological Sciences*, *Frontiers in Systems Neuroscience*.
- Excellent teaching evaluations (8-9 out of 10); already obtained a Dutch University Teaching Qualification; taught philosophy to both science and philosophy students; also taught elective and compulsory courses at undergraduate and graduate levels; supervised MA and PhD theses.
- Very strong track record of successful funding applications (total: € 454.573), including the Marie Skłodowska-Curie grant of the EU's Horizon 2020 Programme.
- Internationally established, as evidenced by numerous invitations to serve as an evaluator for major international funding programmes (e.g., the NSF of the USA, Dutch NWO VENI program, START Program of the FWF Austrian Science Fund); to be a referee in leading philosophy and science journals (e.g., *The British Journal for the Philosophy of Science*, *Analysis*, *Philosophy of Science*, *Synthese*, *Neuroimage*); and to serve on the program committees of international conferences and workshops (e.g., EPSA, SURE).
- Co-founder and coordinator of the "East European Network for Philosophy of Science (EENPS)", "Dutch Distinguished Lecture Series in Philosophy and Neuroscience (DDLs)", as well as of the annual workshop series "Scientific Understanding and Representation (SURE)".

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**CURRENT POSITION**

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**2025-** Visiting Lecturer, University of Groningen.

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**PREVIOUS POSITIONS**

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**2023-2024** Research Fellow in Humane AI, Leiden University.

**2020-2022** Radboud Excellence Initiative Fellow, Institute for Science in Society (ISiS), Faculty of Science, Radboud University.

**2018-2020** Postdoctoral Researcher at the Department of Philosophy, University Bordeaux Montaigne.

**2016-2018** Marie Skłodowska-Curie Fellow at the Institute for History and Philosophy of Science and Technology - IHPST (CNRS/ Université Paris I Sorbonne).

**May 2016** European Philosophy of Science Association (EPSA) Visiting Fellow at the IHPST (CNRS/ Université Paris I Sorbonne).

**2014-2016** Research Associate at the Institute for Philosophy at the University of Belgrade.

**2012-2013** Principal investigator at the Laboratory for Experimental Psychology, University of Novi Sad.

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## EDUCATION

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<b>2012</b>	Humboldt Universität zu Berlin, PhD in Philosophy.
<b>Thesis Title</b>	“The explanatory gap problem: how neuroscience might contribute to its solution”.
<b>Advisers</b>	Michael Pauen (Philosophy), David Papineau (Philosophy), Christoph Herrmann (Biological Psychology).
<b>2004-2007</b>	University of Vienna, Graduate Program in Philosophy (transferred to Humboldt).
<b>2003</b>	University of Belgrade, BA in Philosophy.
<b>Thesis Title</b>	“The Turing Test and the Zombie Arguments”.

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## LIST OF PUBLICATIONS

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### ❖ Peer reviewed journal articles

1. Kostic, D. (2024). “On the Role of Erotetic Constraints in Non-causal Explanations”. *Philosophy of Science*, 91(5), 1078–1088. doi:10.1017/psa.2023.114
2. Kostic, D., Halffman, W. (2023). “Mapping Explanatory Language in Neuroscience”. *Synthese* 202, 112. <https://doi.org/10.1007/s11229-023-04329-6>.
3. de Boer, N., Kostic, D., Ross, M., de Bruin, L., Glas, G. (2022) “Using Network Models in Person-centered Care in Psychiatry: How Perspectivism Could Help to Draw Boundaries.” *Frontiers in Psychiatry*, 13:925187, doi: 10.3389/fpsy.2022.925187.
4. Kostic, D. and Khalifa, K. (2022). "Decoupling Topological Explanations from Mechanisms." *Philosophy of Science*, 90(2), 245-268.
5. Khalifa, K., Islam, F., Gamboa, J.P., Wilkenfeld, D. A., Kostic, D. (2022). “Integrating Philosophy of Understanding with the Cognitive Sciences”, *Frontiers in Systems Neuroscience*. 16:764708. doi: 10.3389/fnsys.2022.764708.
6. Kostic, D. and Khalifa, K. (2021) “The Directionality of Topological Explanations.” *Synthese*, 199, 14143–14165 (2021). <https://doi.org/10.1007/s11229-021-03414-y>.
7. Kostic, D. (2020). “General Theory of Topological Explanations and Explanatory Asymmetry”. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 375: 20190321.
8. Kostic, D., Hilgetag, C., Tittgemeyer, M. (2020). “Unifying the Essential Concepts of Biological Networks”. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 375: 20190314.
9. Kostic, D. (2019). “Minimal Structure Explanations, Scientific Understanding and Explanatory Depth”, *Perspectives on Science*, 27 (1), 48-67.
10. Kostic, D. (2019). “Unifying the Debates: Mathematical and Non-Causal Explanations”, *Perspectives on Science*, 27 (1), 1-6.
11. Kostic, D. (2018). “The Topological Realization”. *Synthese*, 195(1), 79-98.
12. Kostic, D. (2018). “Mechanistic and Topological Explanations: an Introduction”. *Synthese*, 195(1), 1-10.
13. Kostic, D. (2017). "Explanatory Perspectivalism: Limiting the Scope of the Hard Problem of Consciousness". *Topoi*, 36(1), 119-125.
14. Kostic, D. (2012). “Foundations of Transparency of Explanations: Semantic Realization”, *Treci program* 156/IV, pp. 1-12.
15. Kostic, D. (2012). “The Vagueness Constraint and the Quality Space for Pain”, *Philosophical Psychology*, 25 (6), pp. 929-939.
16. Kostic, D. (2011). “The Two-dimensional Argument Against Physicalism and the Conceptual Analysis”, *Belgrade Philosophical Annual*, 24, pp. 05-17.
17. Kostic, D. (2011). “The Explanatory Gap Account and Intelligibility of Explanation”, *Theoria*, LIV, 3, pp. 27-43.

### ❖ Invited book chapters

18. Kostic, D. (2022). “Topological Explanations, an Opinionated Appraisal.” In Lawler, I., Shech, E. and Khalifa, K. (eds): *Scientific Understanding and Representation: Mathematical Modeling in the Life and Physical Sciences*, Routledge, pp. 96-115. DOI: 10.4324/9781003202905-9.
19. Kostic, D. (2016). “The Role of Topological Representation of the Brain in Understanding its Properties, Functions and Behaviors“, in „*Aspects of the Mental Representation Problems*“, Gvozdenovic, V. (Ed.), Akademska Misao, Belgrade.

### ❖ Monographs

20. Kostic, D. (2012). "The Explanatory Gap Problem – How Neuroscience Might Contribute to its Solution", Berlin, *Humboldt Universität zu Berlin*, DOI: 10.18452/16447.

### ❖ Edited volumes

21. Kostic, D., Hilgetag, C., Tittgemeyer, M. (2020). "Unifying the Essential Concepts of Biological Networks: Biological Insights and Philosophical Foundations", a Theme Issue in *Philosophical Transactions of the Royal Society B: Biological Sciences*.
22. Kostic, D. (2019). "Unifying the Debates: Mathematical and Non-causal Explanations", Special Issue in *Perspectives on Science*, 27 (1).
23. Kostic, D. (2018). "Mechanistic and Topological Explanations", Special Issue in *Synthese* 195(1).
24. Kostic, D. (2014). "Explanation, Evidence, Theory", Special Issue in *Treci program*, 163 (III).
25. Kostic, D. (2012). "Structure of Explanations", Special Issue in *Treci program*, 56 (IV).

### ❖ Book reviews

26. Kostic, D. (2018). "The Ultimate Articulation of the Account of Explanatory Understanding", *Metascience*, 28 (1): 61–64. (Review of K. Khalifa, *Understanding, Explanation, and Scientific Knowledge*.)

### ❖ Commentaries

27. Milkowski, M., and Kostic, D. (2023). "Forging Connections: Uniting Neuroscience and Philosophy of Science." eLetter, Levenstein, Daniel, et al. "On the role of theory and modeling in neuroscience." *Journal of Neuroscience*, 43.7 (2023): 1074-1088. <https://www.jneurosci.org/content/43/7/1074/tab-e-letters#forging-connections-uniting-neuroscience-and-philosophy-of-science>.

### ❖ In progress

28. Kostic, D. "Pragmatics of Explainability Relevance in AI".
29. Kostic, D. and Pincock, C. "Mathematical Explanations with Algorithmic Small-world Networks".
30. Gonzales-Barman, K., de Regt, H., Kostic, D., Sullivan, E., et al. „Physics & Question-answering Machines: Artificial Scientific Understanding?"
31. Woodward, J. and Kostic, D. "New Work on Networks". Editorial and a special issue in *Synthese*.
32. Kostic, D. and Khalifa, K. "When Functional Connectivity Models Explain?"
33. Kostic, D., Milkowski, M., Prokic, J. "Text-mining Taxonomies of Opacity Contexts".
34. Kostic D., Regt H.D., Bruin, L.D., Khalifa, K., Douw, L. "Understanding the Relationship Between Structural and Functional Connectivity in the Brain."
35. Kostic, D. "Philosophical Foundations of Topological Explanations", a book.

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## TEACHING EXPERIENCE

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### ❖ Teaching Qualifications

- 08 July 2022:** *University Teaching Qualification* from Radboud University. A nationally recognized certification in Dutch academia, the UTQ demonstrates proficiency in university-level teaching, including course design, effective teaching methods, student assessment, supervision of students, and reflective practice. It ensures adherence to high-quality education standards and is transferable across all Dutch universities. It is a tenure requirement in the Netherlands.

### ❖ Courses taught (SS-Summer semester; WS-Winter semester)

- SS 2025** BA3 level (for philosophy major and life sciences minor students). *Philosophy of Illness and Medicine*, at University of Groningen. Number of students: 25.
- SS 2025** BA3 level (for philosophy major and life sciences minor students). *Philosophy of Life Sciences*, at University of Groningen. Number of students: 25.
- WS 2024** BA2 level (for philosophy students). *Philosophy of Science*, at Institute for Philosophy, Leiden University. Number of students: 76.
- SS 2024** BA1 level (for Bachelor International Studies / Urban Studies program students). *Philosophy of Science and the City*, at Leiden University. Number of students: 77.

- WS 2023** MA level (for philosophy students). *Philosophy of AI*, at Institute for Philosophy, Leiden University. Number of students: 6.
- SS 2023** BA3 level (for philosophy students). *Philosophy of Neuroscience*, at Institute for Philosophy, Leiden University. Number of students: 26.
- WS 2022** MA level (for science students). *Philosophy of Neuroscience*, at ISiS, Radboud University. Number of students: 28.
- SS 2022** BA1 level (for science students). *Introduction to Philosophy & Ethics* at ISiS, Radboud University. Number of students: 322.
- WS 2021** MA level (for science students). *Science and Values* at ISiS, Radboud University. Number of students: 109.
- WE 2021** MA level (for science students). *Philosophy of Neuroscience* at ISiS, Radboud University. Number of students: 9.
- SS 2021** BA1 level (for science students). *Introduction to Philosophy & Ethics* at ISiS, Radboud University. Number of students: 330.
- SS 2021** MA level (for science students). *Science and Values* at ISiS, Radboud University. Number of students: 76.
- SS 2019** MA level (for philosophy students). *Introduction to Philosophy of Science*, at the Philosophy Department, University Bordeaux Montaigne, France. Number of students: 24.
- WS 2018** PhD level (for philosophy students). *A Theory of Topological Explanations*, at the School of Philosophy, Beijing Normal University, China. Number of students: 12.
- SS 2016** PhD level (for psychology students). *Introduction to Metaphysics of Science*, within the graduate program “Models of knowledge and explanation in psychology” at the Department of Psychology, University of Novi Sad, Serbia. Number of students: 10.
- WS 2015** PhD level (for psychology students). *Introduction to Philosophy of Science*, within the graduate program “Models of knowledge and explanation in psychology” at the Department of Psychology, University of Novi Sad, Serbia. Number of students: 10.

❖ **Supervision-Master theses**

- 2022** Advisor, MA thesis by Tom van Iersel, thesis title: “Ethical Issues of Emerging Neuroimaging Technologies”, at Radboud University.
- 2021** Advisor (with Leon de Bruin), MA thesis by Marcos Ross, thesis title: “The Complexity of Well-being: A Network Analysis”, at the VU Amsterdam.
- 2019** Co- advisor (with Cédric Brun), master thesis by Théo Cazemajou, thesis title: “The Problem of Scientific Inquiry of Consciousness”, at the Philosophy Department, University Bordeaux Montaigne, France.

❖ **Supervision-PhD theses**

- 2023** Co-advisor (with James McAllister and Marcin Miłkowski), a co-tutelle (Leiden-Polish Academy of Sciences), PhD thesis by Marcin Rabiza, dissertation title: “Opening the Black Box: Scientific Understanding and Explainable AI”, at Leiden University, The Netherlands.
- 2020** Co-advisor (with Cédric Brun), PhD thesis by Marie Penavayre, dissertation title: “Epistemological issues of the judicial use of neurosciences: an analysis of the explanatory power of neurocriminology”, at the Philosophy Department, University Bordeaux Montaigne, France.

❖ **Underrepresented Philosophy of Science Scholars Mentoring Program of the Philosophy of Science Association**

- 2022-2023** Mentored Mrs. Soyeong An, who was a PhD student in the Philosophy Department at Ohio State University.

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**GRANTS, SCHOLARSHIPS, AND AWARDS**  
(Total: 454.573 €)

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❖ **Grants**

- 2023** Leiden University Fund, a grant for participation at the 5th Annual Workshop Scientific Understanding and Representation (SURE) in Toronto, Canada. *Total amount: €1000.*
- 2020-2022** Radboud Excellence Initiative Fellowship (Radboud Excellence Initiative). *Total amount: €205.300.*
- 2016-2018** Marie Skłodowska-Curie Fellowship (EU's H2020-MSCA-IF-2015 Programme). *Total amount: €185.076.*
- May 2016** European Philosophy of Science Association Fellowship at the IHPST (CNRS/Université Paris I Sorbonne). *Total amount: €1.905.*
- 2014-2016** Philosophy of Science Association (USA) Travel Grant. *Total amount: €210.*
- 2012-2014** Research Grant of the Provincial Secretariat for Higher Education and Scientific Research (Serbia). *Total amount: €11.032.*
- 2009** Villigst grant for a research stay at King's College London. *Total amount: €5.000.*
- May 2007** Research Grant of Otto-Von-Guericke-Universität Magdeburg (Germany). *Total amount: €850.*

❖ **Scholarships**

- 2007-2010** Villigst-Doctoral Scholarship. *Total amount: €41.400.*

❖ **Awards**

- 2000** Award of the Royal Norwegian Embassy for the best 1000 students in all disciplines and from all Universities in (former) Yugoslavia. *Total amount: €1000.*
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**SERVICE TO THE PROFESSION/ADMINISTRATIVE EXPERIENCE**

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❖ **Grant and scholarship evaluation panels**

- 2022** Expert evaluator for the Science and Technology Studies (STS) Program at the National Science Foundation (NSF), USA.
- 2021** Expert evaluator for the START Programme of the FWF Austrian Science Fund.
- 2019** Expert reviewer for the VENI funding program of the Dutch NWO Social Sciences and Humanities Board.
- 2015** The German Academic Exchange Service (DAAD) - Chair of the section for Philosophy and Psychology of the selection committee for master's scholarships.

❖ **Coordination experience of professional networks, and societies**

- 2020-2022** Co-founder and coordinator of The Dutch Distinguished Lecture Series in Philosophy and Neuroscience. <http://daniel-Kostic.weebly.com/dutch-distinguished-lecture-series.html>
- 2019-** Co-founder and co-coordinator of the Annual Workshop Series "Scientific Understanding and Representation (SURE)". <https://sure-workshop.weebly.com>
- 2015** Co-founder and founding coordinator (until 2020) of the East European Network for Philosophy of Science (EENPS). <https://eenps.weebly.com>

❖ **Organization of international workshops, and symposia**

- 16-21 Mar 2026** Co-Organizer (with Francesco Battaglia) of the workshop: "Brain, organisms, living communities: a foundation for neuroscience beyond computation" at The Lorentz Center, The Netherlands.
- 15-17 Apr 2021** Co-Organizer (with Henk de Regt) of the workshop: "3rd Scientific Understanding and Representation (SURE) annual workshop" at ISiS, Radboud University, The Netherlands. <https://sure-workshop.weebly.com/the-3rd-sure-nijmegen-2021.html>

- 7-12 Jul 2019** Organizer of the symposium: “Idealizations in Computational Neuroscience: Facticity, Pragmatics and the Coding Heuristics” at the 2019 Meeting of the International Society for the History, Philosophy and Social Studies of Biology in Oslo, Norway.
- 5-6 Feb 2019** Co-Organizer (with Kareem Khalifa and Cédric Brun), Inaugural Workshop “Scientific Understanding and Representation (SURE)” at University Bordeaux Montaigne, France. <http://daniel-Kostic.weebly.com/sure-workshop.html>
- 4-6 Apr 2018** Organizer, International workshop "Levels, Hierarchies and Asymmetries" at the Ecole normale supérieure in Paris, France. <https://daniel-Kostic.weebly.com/workshops.html>
- 03 Nov 2017** Organizer, International workshop "Understanding from models" at the IHPST in Paris, France. <https://Kostic-workshops.weebly.com>
- 28-29 Jun 2017** Organizer, International workshop “Unifying the debates: mathematical and non-causal explanations” at the IHPST in Paris, France. <http://Kostic.weebly.com>
- 6-8 Nov 2014** Organizer, Symposium “What’s New in Network Analysis” at the Twenty-Fourth Biennial Meeting of the Philosophy of Science Association in Chicago.

❖ **Conference program committees**

- 2025** Member of the Program Committee of the CLEAR-AI Workshop "Collaborative Methods and Tools for Engineering and Evaluating Transparency in AI" at ECAI 2025, in Bologna, Italy.
- 2025** Member of the Program Committee of PSA Around the World 2025, Philosophy of Science Association. [https://www.philsci.org/psa\\_around\\_the\\_world\\_2025.php](https://www.philsci.org/psa_around_the_world_2025.php)
- 2025** Convenor and member of the program committee for the Seventh Annual Workshop “Scientific Understanding and Representation (SURE) at University of Miami, USA. <https://sure-workshop.weebly.com/current-workshop.html>
- 2024** Convenor and member of the program committee for the Sixth Annual Workshop “Scientific Understanding and Representation (SURE) at LSE/University of Cambridge, UK. <https://sure-workshop.weebly.com/current-workshop.html>
- 2023** Reviewer for the 15th Conference of the Italian Society for Analytic Philosophy (SIFA) “Who is Afraid of Philosophy? New Challenges for Contemporary Society”, at University of Eastern Piedmont. <http://sifaphilosophy.eu/?p=4958>
- 2023** Convenor and member of the Program Committee of the Fifth Annual Workshop “Scientific Understanding and Representation (SURE) at University of Toronto. <https://sure-workshop.weebly.com/current-workshop.html>
- 2022** Convenor and member of the Program Committee of the Fourth Annual Workshop “Scientific Understanding and Representation (SURE) at Fordham University in New York. <https://sure4.weebly.com>
- 2021** Co-chair of the Program Committee of the Third Annual Workshop “Scientific Understanding and Representation (SURE) at Radboud University in Nijmegen. <https://sure-workshop.weebly.com/the-3rd-sure-nijmegen-2021.html>
- 2021** Member of the Program Committee of the Third East European Network for Philosophy of Science (EENPS) annual Meeting, at Belgrade University. <https://eenps.weebly.com/eenps-2021.html>
- 2018** Member of the Program Committee of the Second East European Network for Philosophy of Science (EENPS) annual Meeting in Bratislava. <https://eenps.weebly.com/eenps-2018.html>
- 2017** Member of the Program Committee of the European Philosophy of Science Association Conference (EPSA17), University of Exeter. [https://philsci.eu/epsa17\\_organization](https://philsci.eu/epsa17_organization)
- 2016** Co-chair of the Program Committee of the Inaugural Conference of the East European Network for Philosophy of Science in Sofia. <https://eenps.weebly.com/eenps-2016.html>

## ❖ Editorial and refereeing experience

- Editorial work in:**
- *Philosophical Transactions of the Royal Society B: Biological Sciences*.
  - *Synthese*.
  - *Perspectives on Science*.
- Reviewer for:**
- *Philosophers' Imprint*.
  - *Analysis*.
  - *Neuroimage*.
  - *The British Journal for the Philosophy of Science*.
  - *Philosophy of Science*.
  - *Synthese*.
  - *Erkenntnis*.
  - *Minds and Machines*.
  - *Studies in History and Philosophy of Science*.
  - *European Journal for Philosophy of Science*.
  - *International Journal for the Philosophy of Science*.
  - *Philosophical Psychology*.
  - *Topoi: An International Review of Philosophy*.
  - *Theory in Biosciences*.
  - *Foundations of Science*.
  - *Organon F*.
  - *Croatian Journal of Philosophy*.
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## INVITED TALKS

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- 24-25 Jun 2025** "Topological Explanation", at the Society for the Metaphysics of Science Summer School, online.
- 02 May 2025** "Mathematical Explanations with Algorithmic Small-world Networks", at HKUST Philosophy of Science Lecture Series, at Hong Kong University of Science and Technology, Hong Kong. With Chris Pincock.
- 8-11 Oct 2024** "Exploring the Philosophical Dimensions of Network Modeling", at the Autumn School: Networks – An Interdisciplinary Perspective on Connectivity, at University of Tübingen, Germany.
- 19-20 Oct 2023** "Narrow and General Pragmatic Accounts of Explainability Relevance", at the Annual Bergen Philosophy of Science Workshop, University of Bergen, Norway.
- 23 Jun 2021** "Perspectivism and Vertical-Horizontal Explanatory Modes in Ecological Networks", at The Carl Friedrich von Weizsäcker-Colloquium, University of Tübingen, Germany. With Nathalie Niquil.
- 12 Mar 2021** "Veridicality Problem in Non-Causal Explanations" at the workshop: Transdisciplinary Model Transfer and its Interfaces, in Vienna, Austria.
- 13 Oct 2020** "Understanding the Relationship Between Structural and Functional Connectivity?" at Neurophilosophy seminar at VU Amsterdam, The Netherlands. With Henk de Regt, Leon de Bruin, and Marc Slors.
- 23 Jan 2020** "Towards a Unifying Account of Causal and Non-causal Explanations" at the Konrad Lorenz Institute for Evolution and Cognition Research (KLI), Vienna-Klosterneuburg, Austria.
- 22 Oct 2019** "Towards a Unifying Account of Causal and Non-causal Explanations" at the Institute for Science in Society, Radboud University, Nijmegen, the Netherlands.
- 11 Jun 2019** "Unifying Account of Causal and Non-causal Explanations" at the Duesseldorf Center for Logic and Philosophy of Science, Heinrich Heine University Duesseldorf, Germany.
- 13 Feb 2019** "Unifying the Essential Concepts of Biological Networks: Explanatory Directionality" at the Laboratory BOREA - Biologie des Organismes et Ecosystèmes Aquatiques Université de Caen-Normandie, France.

- 15 Nov 2018** "Topological Controllability of the Brain & Non-causal Explanatory Asymmetries" at the Department of the History of Science at Tsinghua University in Beijing, China.
- 15-16 Feb 2018** "Non-causal Asymmetries in Topological Explanation", at the workshop: Explanatory Practices: Interaction, Dialogues, and Cognitive Processes, organized by the Center for Philosophy of Sciences (CFCUL) of the University of Lisbon, Portugal.
- 12 Dec 2017** "Topological Asymmetries and the Norms for Distinguishing Explanatory and Representational Role of Mathematics in Scientific Explanation" at the workshop 'Applicability of Mathematics: Representation and Explanation', University of Leeds, UK.
- 01 Dec 2017** "Minimal Structure Explanations and Explanatory Depth" in the Genoa-Turin Seminars on Neural Mechanisms, Turin, Italy.
- 06-07 Mar 2015** "Topological Models and Minimal Model Explanations", invited talk at the Meeting of the Danish Society for Philosophy in Aarhus, Denmark.
- 27 Mar 2012** "On the Difference Between the Explanatory Gap and the Hard Problem of Consciousness and Why it Matters", invited talk at the Laboratory for Experimental Psychology of the University of Novi Sad, Serbia.
- 17 Feb-02 Mar 2012** "Conscious-state Anti-realism" (by Pete Mandik) invited commentary at the Fourth Online Consciousness Conference.

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### PEER-REVIEWED CONFERENCE PRESENTATIONS

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- 14-17 Nov 2024** "Non-causal explanations of social and biological networks" (with Chris Pincock), within the symposium "Causality and Explanation in Network Models", at the *Philosophy of Science Association (PSA) 29th biennial meeting* in New Orleans, USA.
- 29-31 Jul 2024** "Understanding in Large Language Models: Exploring the Role of Agency" at the conference *Large Language Models & Philosophy of Mind/The 9th Descartes Lectures*, at Tilburg University, The Netherlands.
- 29-6 Jan 2024** "Using Question-Answering Machines to Increase Human Scientific Understanding" at the workshop *Physics & question-answering machines: artificial scientific understanding?*, at The Lorentz Center, The Netherlands. With Jelena Prokić.
- 20-23 Sep 2023** "Pragmatics for Explainable AI", at the *European Philosophy of Science Association (EPSA23) meeting*, in Belgrade, Serbia.
- 19-20 May 2023** "Pragmatics for Explainable AI", at the *5th annual SURE* workshop in Toronto, Canada.
- 10—13 Nov 2022** "On the Role of Perspectival Constraints in Scientific Explanations", within the Symposium "Constraints and Scientific Explanation" at the *Philosophy of Science Association (PSA) 28th biennial meeting* in Pittsburgh, USA. Participants: Marc Lange, Dani Bassett, Daniel Kostic, and Lauren Ross.
- 15—17 Aug 2022** "Empirical Evidence for the Claims About the Pervasiveness of "Mechanisms" in Life Sciences" at the *GWP.2022 The Fourth International Conference of the German Society for Philosophy of Science*, Technische Universität Berlin. With Willem Halffman.
- 02—04 Jul 2022** "Empirical Evidence for the Claims about the Pervasiveness of "Mechanisms" in Brain and Life Sciences" at the *9th Biennial Conference of the Society for Philosophy of Science in Practice* in Ghent, Belgium. With Willem Halffman.
- 11-14 Nov 2021** "Veridicality Problem in Non-Causal Explanations", at the *Philosophy of Science Association (PSA) 27th Biennial Meeting* in Baltimore, USA.
- 05-10 Jul 2021** "Can Structure Explain Function in the Brain?" at the *Networks 2021: A Joint Conference of Sunbelt and NetSci*, USA, with Henk de Regt, Leon de Bruin and Marc Slors.
- 15-17 Apr 2021** "Perspectivism and Vertical-Horizontal Explanatory Modes in Ecological Networks", at *3rd Scientific Understanding and Representation (SURE)* workshop organized at ISiS, Radboud University, with Nathalie Niquil and Quentin Nogues.

- 11-14 Sep 2019** “Non-causal Understanding via Spatially Embedded Networks in the Brain”, at the *European Philosophy of Science Association (EPSA19) meeting EPSA19*, at the University of Geneva, Switzerland.
- 5-10 Aug 2019** “Facticity of Understanding in Non-causal Explanations”, at *CLMPST2019: 16th International Congress of Logic, Methodology and Philosophy of Science and Technology* at the Institute of Philosophy of the Czech Academy of Sciences, in Prague, Czech Republic.
- 7-12 Jul 2019** “Non-causal Understanding via Spatially Embedded Networks in the Brain” within the symposium: “Idealizations in Computational Neuroscience: Facticity, Pragmatics and the Coding Heuristics” at the *2019 Meeting of the International Society for the History, Philosophy and Social Studies of Biology* in Oslo, Norway.
- 25-27 Feb 2019** “Non-causal Explanatory Asymmetries” at the *triennial conference of the German Society for Philosophy of Science (GWP.2019)*, at the University of Cologne, Germany.
- 19-21 Sep 2018** “Topological Controllability of the Brain & Non-causal Explanatory Asymmetries” at the workshop *Causality in the Neuro and Psychological Sciences*, University of Antwerp, Belgium.
- 4-6 Jul 2018** "Minimal Structure Explanations, Scientific Understanding and Explanatory Depth", at the *Société de philosophie des sciences 2018 conference* in Nantes, France.
- 23-25 May 2018** “Minimal Structure Explanations, Scientific Understanding and Explanatory Depth”, at the workshop *Explanation and Understanding*, Ghent University, Belgium.
- 14-17 Aug 2017** “Understanding and the Structure of Topological Explanation in Neuroscience: a Noetic Account” poster presentation at the *25th Annual Meeting of the European Society for Philosophy and Psychology*, the University of Hertfordshire, UK.
- 14-16 Dec 2016** "Topological Controllability of the Brain: a Case of Non-causal Interventionism" at the *Third Lisbon International Conference on Philosophy of Science: Contemporary Issues (LICPOS)*, The Centre for Philosophy of Science of the University of Lisbon (CFCUL), Portugal.
- 27-29 Jun 2016** "Topological Controllability of the Brain: a Case of Non-causal Interventionism" at the workshop *CitSotMaB2016: Causality in The Sciences of The Mind and Brain*, at Aarhus University, Denmark.
- 29 Jun–1 Jul 2016** "Mathematical Features and Ontic Commitments in Topological Explanation" at *6<sup>e</sup> congrès de la société de philosophie des sciences (SPS)*, at University of Lausanne, Switzerland.
- 23-26 Sep 2015** “Non-causal Features of Topological Explanations: Expanding the Notions of Interventions, Counterfactual Dependencies and Difference-makers”, presentation at the *European Philosophy of Science Association (EPSA15) meeting*, at the Duesseldorf Center for Logic and Philosophy of Science (DCLPS) at Heinrich Heine University Duesseldorf, Germany.
- 8-11 Sep 2014** “Does Network Analysis Provide a Novel Kind of Topological Explanations in Life and Brain Sciences?”, at the International Conference *Causality and Complexity in the Sciences*, at the University of Cologne, Germany.
- 07 Jun 2009** “The Explanatory Gap Problem: How Neuroscience Might Contribute to its Solution”, a poster presentation at the *ASSC13* (Association for the Scientific Study of Consciousness) conference in Berlin, Germany.

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### RESEARCH STAYS

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- Oct-Dec 2009** King’s College London, worked with Prof. David Papineau.
- May 2007** Otto-Von-Guericke-Universität Magdeburg, worked with Prof. Michael Pauen.

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## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

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- Society for Philosophy of Science in Practice (SPSP).
  - Philosophy of Science Association (PSA).
  - European Philosophy of Science Association (EPSA).
  - German Society for Philosophy of Science (GWP).
  - French Society for Philosophy of Science (SPS).
  - Danish Society for Philosophy.
  - The Federation of European Neuroscience Societies (FENS).
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## LANGUAGES

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- English (Fluent) • German (Advanced) • Russian (Intermediate) • French (Beginner) • Dutch (Beginner)
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## REFERENCES

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