

# SAMUEL KARL SCHINDLER

## *Curriculum Vitae*

last updated: 25-Feb-24

www.samuelschindler.org

**AoS:** Philosophy of science, in particular: theoretical virtues and theory-choice, the scientific realism debate, the scientific method, thought experiments, theory-ladenness of observation and experiment, explanation, prediction, scientific discovery.

Meta-philosophy: the use of historical cases in philosophy of science, the ‘method of cases’ in philosophy, and experimental philosophy.

**AoC:** history of science (esp. physics), epistemology, philosophy of cognitive science and the mind.

### POSITIONS

- since 2011 Associate Professor of Philosophy of Science, Centre for Science Studies, Department of Mathematics, Aarhus University, Denmark
- Member of the Research Unit for Epistemology, Metaphysics, and Philosophy of Cognition, Department of Philosophy, Aarhus University
  - Head of degree program, Master’s degree in Science Studies, since Sept. 2022
- 2016-19 Principal Investigator of the DFF-Sapere Aude research group “Intuitions in Science and Philosophy”, grant number 4180-00071 (4 years)
- 2019, 2021, 2024 Parental leave for two children (9, 5, 8 weeks, respectively)
- 2011 Emmy-Noether research group leader (5-year position; equivalent to ‘Junior Professor’), *Zukunftskolleg* and Department of Philosophy, University of Konstanz, Germany, May – Sept.
- 2009-2011 Research fellow at the interdisciplinary *Zukunftskolleg* and the Department of Philosophy, University of Konstanz, Germany
- 2009 Lecturer, Department of Philosophy, University of Birmingham, England, (Jan – June)

### EDUCATION AND QUALIFICATIONS

- 2021 Dr. phil. (Danish “higher doctorate” degree), Faculty of Arts, Aarhus University
- Opponents: Prof. Stathis Psillos and Prof. James Ladyman, Chair: Prof. Steen Brock
- 2005-2008 Ph.D. in Philosophy, University of Leeds, England; Sept 2005-Sept 2008
- Supervisor: Prof. Steven French. External examiner: Dr. Hasok Chang. Internal examiner: Dr. Gregory Radick
  - Result: minor corrections
- 2004-2005 M.A. in History and Philosophy of Science, University of Leeds (Sept 2004 – Aug 2005); with distinction
- 2000-2004 B.Sc. in Cognitive Science, University of Osnabrück, Germany (Oct 2000 – July 2004) and McGill University, Montreal, Canada (2003-04); predicate ‘very good’ (1,3)

### VISITING APPOINTMENTS

- 2019 Visiting Professor, Department of Philosophy, University of British Columbia, Vancouver, Canada, spring term
- 2010 Visiting fellow, Center of Philosophy of Science, University of Pittsburgh, USA, fall term
- 2008 Research fellow, Department of Philosophy, University of Stockholm, Sweden, fall term.

## MAJOR GRANTS

- qualified for interview stage of the ERC Consolidator Grant 2020 (European Research Council)
- DFF (Danish Council for Independent Research) *Sapere Aude Starting Grant* (ca. 1M EUR)
  - Project title: “Intuitions in Science and Philosophy” (start in Jan 2016), grant number 4180-00071
  - Funding for 4 years, incl. salaries for two postdocs (2 ½ years) and one PhD student (3 years)
  - Selected as one of 20 from 233 applications from all academic disciplines
- DFG (German Research Foundation) *Emmy-Noether research grant* for “outstanding young researchers” (ca. 1.2M EUR), grant number: 186272085
  - Project title: “Towards a New Epistemology of Science”
  - Funding for 5 years incl. salaries for PI and three PhD students
  - Grant received and started in May 2011, but aborted after four months due to acceptance of tenured associate professorship at Aarhus University

## OTHER GRANTS

- “Establishing the Nordic Network for Philosophy of Physics: Towards a Future-Orientated Philosophy of Science”, *The Joint Committee for Nordic Research Councils in the Humanities and Social Sciences (NOS-HS) Exploratory workshop* call 2021 (42,693 EUR), with Karen Crowther (PI), Richard Dawid and Harald Wiltsche.
- Sabbatical grant, Aarhus University, Spring 2019 (ca. 16,000 EUR)
- Conference grant, Aarhus University (5,700 EUR)
- Successful application for a *Zukunftskolleg* Senior Fellowship award for Prof. Giora Hon (paid salary for eight months)
- *Zukunftskolleg* co-funding grants for two workshops: “Theoretical Virtues in Theory Choice” (9,750 EUR) and “Philosophy of Scientific Experimentation” (8,100 EUR)
- Research network grant by the *Danish Research Council for Independent Research* for the ‘Research Network in Philosophy of Science’ (2013-2016), with Hanne Andersen and Peter Sandøe (ca. 135,000 EUR)

## SCHOLARSHIPS AND FELLOWSHIPS

- Visiting Fellowship, Department of Philosophy, University of British Columbia, Vancouver, Canada, Spring 2019 (funded by Aarhus University)
- Postdoctoral fellowship (1 year), funded by a project led by B. van Fraassen and I. Peschard; (2011; declined)
- Guest researcher scholarship (stipend for 6 months), *Swedish Institute*, 2008
- Doctoral stipend, *German Academic Exchange Service (DAAD)*, 2007

## INSTITUTIONAL RESPONSIBILITIES

- Head of degree program (MSc in Science Studies), from 2022
- Elected member of the Executive Committee of the *Zukunftskolleg*, University of Konstanz (for a period of 2 ½ years, from 2011)
  - Tasks involved the approval, selection of co-funding applications, and strategic planning
- Chair of the library committee, Department of Physics and Astronomy, AU (2013-15)
- Organizer of the AU *Centre for Science Studies* colloquium series (2012-2014)

## ORGANIZATION OF ACADEMIC MEETINGS

### *Workshops:*

- Theoretical Virtues and Non-Empirical Guides in Scientific Theory-Development, Nov 2022, Aarhus University
- Experimental Philosophy of Science, Oct 2019, Aarhus University
- Scientific Realism, Oct 2019, Aarhus University
- Linguistic Intuitions: Evidence and Method, Oct 2017, Aarhus University

- Intuitions and the Expertise Defense, Sept 2017, Aarhus University
- Explanation and Understanding, May 2016, Aarhus University
- Philosophy of Scientific Experiment (PSX2), October 21-22, 2011, University of Konstanz
- Theoretical Virtues in Theory-Choice, July 12-14, 2012, University of Konstanz

*Conferences:*

- Biennial Meeting of the *Society for Science in Practice (SPSP)*, 2015, Aarhus (co-organiser)
- *Causality in the Sciences of the Mind and the Brain*, June 2016, Aarhus University (co-organiser)

*Symposia:*

- „The Scientific Method Revisited”, PSA 2014 meeting in Chicago (other participants: N. Cartwright, E. Sober, C. Glymour, and I. Votsis)
- “Thought experiments: philosophy of science meets meta-philosophy”, Annual Meeting of the British Society for the Philosophy of Science, Durham University, 17-19 July 2019 (cancelled)

**PROGRAMME COMMITTEE MEMBER (INVITED)**

*Conferences:*

- Biennial meeting of the Philosophy of Science Association, PSA 2024
- Annual Meeting of the *British Society for the Philosophy of Science*, 2019
- 1<sup>st</sup> and 2<sup>nd</sup> biennial meeting of the *East European Philosophy of Science Network*, 2018, 2016
- 9<sup>th</sup> biennial meeting of the *European Society for Analytic Philosophy*, 2017
- 4<sup>th</sup> and 7<sup>th</sup> biennial meeting of the *European Philosophy of Science Association*, 2013 and 2019

*Workshops:*

- 4<sup>th</sup> and 5<sup>th</sup> workshop of “Scientific Understanding and Representation (SURE)”, 2022 & 2023
- 1<sup>st</sup> - 6<sup>th</sup> *Philosophy of Scientific Experimentation (PSX)*, 2010-2021

**ACADEMIC SOCIETIES**

- Member: European Philosophy of Science Association, British Society for the Philosophy of Science, Philosophy of Science Association, American Philosophical Association
- Steering committee member of *Research Network in the Philosophy of Science* (2013-7), funded by the *Danish Research Council for Independent Research*
- Founding member (alongside A. Franklin, J. Norton, D. Mayo, M. Weber, W. Parker, S. Perovic) of the workshop series *Philosophy of Scientific Experiment (PSX)*, 2010

**REFEREEING**

- Journals (regular): *The British Journal for the Philosophy of Science (BJPS)*, *Philosophy of Science*, *Synthese*, *Studies in History and Philosophy of Science A*, *Erkenntnis*, *European Journal for the Philosophy of Science (EJPS)*, *Journal for General Philosophy of Science*.
- Journals (occasional): *Mind*, *Analysis*, *Canadian Journal of Philosophy*, *American Philosophical Quarterly*, *Studies in History and Philosophy of Science C and B*, *Ergo*, *International Studies in Philosophy of Science*, *Theoria (Spain)*, *Topoi*, *The Journal of the International Society for the History of Philosophy of Science (HOPOS)*, *History and Philosophy of the Life Sciences*, *Philosophical Perspectives*, *Spontaneous Generations*, *The Journal of Philosophical Research*, *Journal of the Philosophy of History*, *Foundations of Science*.
- Books: Cambridge University Press, Springer’s *Boston Studies in the Philosophy and History of Science*,
- Funding bodies: *The Leverhulme Trust (UK)*, *Innovational Research Incentives Scheme of the Netherlands Organisation for Scientific Research (Vici Scheme) (2018)*, *Science and Technology Studies Program at the National Science Foundation (NSF) (2022, 2023)*, *Young Researcher (Jeunes Chercheuses) prize of the French Philosophy of Science Society (2023)*

## PUBLICATIONS

In case of co-authorship: \* indicates first author / editor

### BOOKS

- (i) *Theoretical Virtues in Science: Uncovering Reality through Theory*, Cambridge University Press. Published in May 2018.
  - Described in the *Notre Dame Philosophical Reviews* as “an impressive achievement” and “a source of new and provocative ideas”

### EDITORSHIP IN SPECIAL VOLUMES / COLLECTIONS

- (i) Causality in the Sciences of the Mind and Brain (special issue), *Minds and Machines*, with Lise Andersen, Jonas Fogedgaard Christiansen, and Asbjørn Steglich-Petersen, Volume 28, issue 2, June 2018.
- (ii) *Linguistic Intuitions: Evidence and Method*, \*with Anna Daria Drozdowicz and Karen Brøcker, Oxford University Press, 2020.

### ARTICLES (PEER-REVIEWED)

- (24) ‘Predictivism and avoidance of ad hoc-ness: an empirical study’, forthcoming in *Studies in History and Philosophy of Science*
- (23) ‘Normal Science: not dogmatic or uncritical’, *Synthese*, forthcoming
- (22) ‘Beyond footnotes: Lakatos’s meta-philosophy and the history of science’, edited volume on Lakatos’s Centenary in *Synthese Library* (title tba), forthcoming
- (21) ‘Micro-level models and counterfactual constraint’, *European Journal for Philosophy of Science*, forthcoming.
- (20) ‘Armchair Physics and the Method of cases’, (with Pierre Saint-Germier)\*, *Inquiry*, 2024, vol 67(1), pp. 330-354.
- (19) ‘Philosophical Expertise Put to the Test’ (with Pierre Saint-Germier)\*, *Australasian Journal of Philosophy*, 2023, Volume 101, Issue 3, pp. 592-608.
- (18) ‘Theoretical Virtues: do scientists think what philosophers think they ought to think?’, *Philosophy of Science*, 2022, 89(3), 542-564.
- (17) ‘Historical case studies: the “model organisms” of philosophy of science’ (with Raphael Scholl), *Erkenntnis*, 2022, vol. 87, pp. 933–952.
- (16) ‘Experiments in Syntax and Philosophy: the method of choice? (with Karen Brøcker)\*, in Schindler, S., A. Drozdowicz and K. Brøcker: *Linguistic Intuitions, Evidence and Method*. Oxford University Press, 2020.
- (15) ‘Are thought experiments disturbing? The case of armchair physics.’ with (P. Saint-Germier)\*, *Philosophical Studies*, 2020, volume 177, pages 2671–2695.
- (14) ‘A coherentist conception of ad hoc hypotheses’, *Studies in the History and the Philosophy of Science*, Volume 67, February 2018, pp. 54–64.
- (13) ‘Kuhnian theory choice, virtue convergence, and base rates’, *Studies in the History and the Philosophy of Science*, 2018, Volume 64, pp. 30-37.
- (12) ‘Theoretical Fertility McMullin-style’, *European Journal for the Philosophy of Science*, January 2017, Volume 7, Issue 1, pp 151–173.
- (11) ‘Scientific discovery: that-what’s and what-that’s’, *Ergo*, 2015, Volume 2, No. 6, 123-148.
- (10) ‘Explanatory fictions—for real?’, *Synthese*, May 2014, Volume 191(8), pp 1741-55.
- (9) ‘A matter of Kuhnian theory-choice? The GSW model and the neutral current’, *Perspectives on Science*, 2014, 22(4), pp. 491–522.
- (8) ‘Novelty, Coherence, and Mendeleev’s periodic table’, *Studies in History and Philosophy of Science*, Vol. 45, March 2014, p. 62-69.

- (7) 'The Kuhnian mode of HPS', *Synthese*, Dec. 2013, Vol. 190 (18), p. 4137-4154.
- (6) 'Mechanistic explanation: asymmetry lost', V. Karakostas and D. Dieks (eds.) (2013), *Recent Progress in Philosophy of Science: Perspectives and Foundational Problems, The Third European Philosophy of Science Association Proceedings*, Dordrecht: Springer.
- (5) 'Theory-laden experimentation', *Studies in History and Philosophy of Science*, vol. 44, issue 1, March 2013, p. 89–101.
- (4) 'Bogen and Woodward's data/phenomena distinction and forms of theory-ladenness', *Synthese*, Volume 182(1), 2011, pp. 39-55.
- (3) 'Model, Theory, and Evidence in the Discovery of the DNA Structure', *The British Journal for the Philosophy of Science*, Dec. 2008, vol. 59(4), pp. 619-658.
- (2) 'Use-Not Novel Predictions and Mendeleev's Periodic Table', *Studies in History and Philosophy of Science*, 2008, volume 39(2), pp. 265-269.
- (1) 'Rehabilitating Theory: Refusal of the "bottom-up" Construction of Scientific Phenomena', *Studies in the History and the Philosophy of Science*, volume 38(1), March 2007, pp. 160-184.

#### OTHER PUBLICATIONS

- (4) "Neuheiten in der Wissenschaft: Entdeckungen und Erfindungen" in *Thomas S. Kuhn: Die Struktur wissenschaftlicher Revolutionen*, Markus Seidel (ed.), in *Klassiker Auslegen*, De Gryter. Also available in English as „Kuhn on Scientific Discovery“ on PhilSci Archive.
- (3) Introduction to *Linguistic Intuitions* (2020, OUP), with Anna Daria Drozdowicz and Karen Kiil Brøcker
- (2) Introduction for special volume: 'Causality in the Sciences of the Mind and Brain', *Minds and Machines*, 2018, 28:237–241 (with L. Andersen, J. Fogedgaard Christiansen, and A. Steglich-Petersen)
- (1) 'Invariance, Mechanisms, and Epidemiology', commentary on R. Campaner: 'Causality and Explanation: Issues from Epidemiology', in: *Explanation, Prediction, and Confirmation. New Trends and Old Ones Reconsidered*, edited by S. Hartmann, M. Weber, W.J. Gonzalez, D. Dieks, T. Uebel, 2010, Berlin: Springer

#### ENCYCLOPEDIA ENTRIES

- (2) 'Theoretical Virtues in Science.' In *Oxford Bibliographies in Philosophy*. Ed. Duncan Pritchard. New York: Oxford University Press, 2020, DOI: 10.1093/OBO/9780195396577-0409.
- (1) 'Observation and theory-ladenness', in B. Kaldis (ed.), (2013), *Encyclopedia for Philosophy and the Social Sciences*, Los Angeles: SAGE publishing.

#### BOOK REVIEWS

- (7) Review of Peter Achinstein: *Speculation: Within and About Science*. In: *BJPS: Review of Books* (<http://www.thebsps.org/reviewofbooks/>).
- (6) 'Naturalness in Physics: just a matter of aesthetics?' Review of S. Hossenfelder's *Lost in Math*, in *Metascience*. 2019, Volume 28, Issue 2, pp 345–347.
- (5) 'Must Philosophy be constrained? Book review of Edouard Machery: *Philosophy within its proper bounds*'. Oxford: Oxford University Press. Co-authored with Anna Drożdżowicz, Pierre Saint-Germier. *Metascience*, November 2018, Volume 27, Issue 3, pp 469–475
- (4) 'Philosophy of Science for the Uninitiated'. Review of '*Philosophy of Science: A Very Short Introduction*', *Metascience*, March 2018, Volume 27, Issue 1, pp 107–109
- (3) 'A theory of everything. Review of Richard Dawid: *String Theory and the Scientific Method*', *Philosophy of Science*, Volume 83, Number 3, July 2016, pp. 453–458
- (2) 'History and Philosophy of Science: coherent programme at last?' Review of Seymour Mauskopf and Tad Schmaltz (eds.): *Integrating history and philosophy of science: Problems and prospects*. *Boston Studies in the Philosophy of Science*, vol. 263", *Metascience*, July 2013, Vol. 22(2), pp 457-60

- (1) ‘Conceptions of Causality’ (book review of *Thinking about Causes: From Greek Philosophy to Modern Physics*, Peter K. Machamer, G. Wolters (eds.), University of Pittsburgh Press, 2007, *Metascience*, vol. 18(2), p. 301

## PRESENTATIONS AT PEER-REVIEWED CONFERENCES

- 2022
- ‘Beyond footnotes: Lakatos’ meta-philosophy and the history of science’, *Imre Lakatos Centenary Conference*, LSE, Nov 3-4
  - ‘Micro-level models and counterfactual constraint’, *Gesellschaft für Analytische Philosophie (GAP)*, Humboldt Universität zu Berlin, September 12-15
  - ‘IBE, Bayes, and data conflicts’, *The East European Network for Philosophy of Science (EENPS)*, University of Tartu, Estonia, August 17-19, (online presentation)
  - ‘Rationality and Normativity in Normal Science’, *The Kuhn Centennial Conference: Thomas Kuhn and the 21st Century Philosophy of Science*, University of Kent, UK, July 13-15
  - ‘The two-stage model of theory confirmation re-assessed’, *The Role of Theory Confirmation in Science*, *Stockholm University*, May 5-7.
- 2021
- Theoretical virtues: do scientists think what philosophers think they ought to think?
    - *Online XPhi Europe Conference*, June 2021 (originally planned to take place in Prague)
    - *Online Poster Forum of the Philosophy of Science Association (PSA)*, January 2021 (originally planned to take place in Baltimore).
  - Putting philosophical expertise to the test (w/ Pierre Saint-Germier)
    - *Annual meeting of the Society for Philosophy and Psychology*, June/July 2021 (online; originally planned to take place at Princeton)
    - *Online XPhi Europe Conference*, June 2021 (originally planned to take place in Prague)
- 2019
- ‘Constructive theories and explanation by structural necessitation’, *16th International Congress on Logic, Methodology and Philosophy of Science and Technology to be held in Prague*, August 5-10, 2019 (cancelled due to parental leave)
  - ‘Thought experiments: philosophy of science meets meta-philosophy’, *Symposium at the Annual Meeting of the British Society for the Philosophy of Science*, Durham University, 17-19 July 2019 (talk cancelled due to parental leave)
  - ‘Putting Philosophical Expertise to the Test’, *Annual Meeting of the American Philosophical Association (Pacific Division)*, Vancouver, 16-19 April
  - ‘Constructive Theories and Explanation by Necessitation’, *GWP (Gesellschaft für Wissenschaftstheorie)*, Cologne, 2019 (talk cancelled due to sabbatical at UBC)
- 2018
- ‘The Expertise Defense and Armchair Physics’, *Annual Meeting of the American Philosophical Association (Pacific Division)*, San Diego, March
  - ‘Armchair Physics and the Method of Cases’, *GAP (Gesellschaft für Analytische Philosophie)*, Cologne, September 17–20 (talk cancelled due to bad health)
  - ‘Putting Philosophical Expertise to the Test’, *Buffalo Annual Experimental Philosophy Conference*, Sept 21-22.
  - ‘Constructive Theories and Explanation by Necessitation’, *Biennial Meeting of the Philosophy of Science Association*, Seattle, November 1-4
- 2017
- ‘The Expertise Defense and Armchair Physics’, *2nd Biennial Workshop of the Experimental Philosophy Group Germany*, Osnabrück, November 16-18
  - ‘Explanatory fictions and structural necessitation’
    - *Biennial meeting of the European Philosophy of Science Association*, University of Exeter, 6-9 Sept
    - *Ninth European Congress of Analytic Philosophy (ECAP 9)*, LMU Munich, 21-26 August (talk cancelled)

- ‘The argument from choice: why we better be realists’, *Quo Vadis Selective Scientific Realism?*, Durham University, 5-7 August
- 2016 • ‘Historical Case Studies as model organisms’, *Biennial Meeting of the Philosophy of Science Association (PSA)*, Atlanta, 3-6 Nov
- ‘Why Novel Success?’, *The History of Science and Contemporary Realism*, IUPUI, Indianapolis, Feb 19-20
- 2015 • ‘Theoretical fertility, McMullin-style’, *Biennial meeting of the European Philosophy of Science Association (EPSA)*, University of Duesseldorf, Nov.
- ‘Ad hoc: what does it mean? A historico-philosophical analysis’, *Testing Philosophical Theories Against the History of Science*, *Oulu Centre for Theoretical and Philosophical Studies of History*, University of Oulu, Finland, Sept.
- 2014 • ‘On the necessity of a scientific method’, contribution to a symposium on the Scientific Method Revisited incl. Nancy Cartwright, Elliott Sober, Clark Glymour, and Ioannis Votsis, organised at the *Biennial Meeting of the Philosophy of Science Association (PSA)*, Chicago, Nov.
- ‘Base Rates and Realism’, *The New Thinking about Scientific Realism*, Cape Town, 5-9 August
- ‘Scientific Discovery: that-what’s and what-that’s’, &HPS5: *Fifth Conference in Integrated History and Philosophy of Science*, University of Vienna, 26-28 June 2014
- 2013 • ‘Kuhnian theory choice and the base rate fallacy’, *Annual meeting of the British Society for the Philosophy of Science*, Exeter, July
- 2012 • ‘Facing Giere’s challenges to the History and Philosophy of Science’ &HPS4: *Fourth Conference in Integrated History and Philosophy of Science*, University of Athens, Greece, 15-18 March
- ‘From Novelty to Coherence’, *The British Society for the Philosophy of Science Annual Conference*, 7-8 July
- ‘Explanatory fictions: for real?’, *Biennial Meeting of the Philosophy of Science Association (PSA)* in San Diego, Nov. (talk cancelled)
- 2011 • ‘Mechanistic Explanations: Asymmetry lost’, *Biennial meeting of the European Philosophy of Science Association*, University of Athens, October
- ‘On the relationship of History and Philosophy of Science’, *Workshop on Interdisciplinarity*, University of Aarhus, August
- ‘Conceptual lacunae in Bokulich’s account of explanatory fictions’,
  - *The British Society for the Philosophy of Science Annual Conference*, University of Brighton, 7-8 July
  - *CaEitS2011: Causality and Explanation in the Sciences*, University of Gent, 19-21 September.
- ‘Against novel predictions, for virtuous theories’, *Novel Predictions Conference*, Department of Philosophy, Heinrich-Heine University of Düsseldorf, February 25-26.
- 2010 • ‘The conundrum of data reliability’ *Philosophy of Scientific Experimentation: A Challenge to Philosophy of Science*, Center for Philosophy of Science, University of Pittsburgh, USA, 15-16 October
- ‘Philosophy meets history in the discovery of weak neutral currents’, &HPS3: *Third Conference in Integrated History and Philosophy of Science*, Indiana University, Bloomington, USA, September 23-26
- ‘How good a guide is the replicability of data to their reliability’, *British Society for Philosophy of Science Annual Conference*, Dublin, Ireland, 8th- 9th July
- 2009 • ‘The epistemic value of Dalton’s Atomic Theory’
  - *2009 Summer Workshop of the International Society for Philosophy of Chemistry*, Chemical Heritage Foundation, Philadelphia, USA, 13-15 August
  - &HPS2: *Second Conference in Integrated History and Philosophy of Science*, University of Notre Dame, USA, 12-15 March

- 2008 • ‘Photo#51, the CCV theory, and the Discovery of the DNA Structure’, *History of Science Society* meeting, Pittsburgh, USA, 6-9 November
- ‘What is an experimental error?’, Hertz’s cathode ray experiments reconsidered, *Annual Conference of the British Society of Philosophy of Science*, University of St. Andrews, 9-11 July
- ‘Some methodological reflections on the History and Philosophy of Science’, *Leeds/UCL/Durham Joint HPS Workshop*, UCL London, 20 June
- 2007 • Panelist at *&HPS1: First Conference in Integrated History and Philosophy of Science*, Center for Philosophy of Science, University of Pittsburgh, USA, 11-13 October
- 2006 • ‘Bottom-up Corrections and the Phenomenologically-driven View’, *10th Annual Oxford Philosophy Graduate Conference*, University of Oxford, 11-12 November
- ‘Imaginary-Constitutives. The Ontology of Scientific Models’, *Biennial Meeting of the Philosophy of Science Association (PSA)*, Vancouver, Canada, 2-5 November
- ‘Rehabilitating Theory: Refusal of the “bottom-up” Construction of Scientific Phenomena’, *Annual meeting of the British Society for the Philosophy of Science*, Southampton, 6-7 July

#### **INVITED PRESENTATIONS AT WORKSHOPS**

- 2023 • Two types of scientific discovery: Nobel meets Kuhn, Bergen Workshop for the Philosophy of Science, Oct 19-20
- 2022 • Predictivism and ad hoc-ness: an empirical study,
  - French Fest in honour of Steven French, University of Leeds, June 21-22
  - philosophy of science workshop, University of Odense, April 6
- 2017 • ‘Explanation and understanding in models via structural necessitation’, Workshop on Understanding from Models, IHPST, Paris, November
- 2016 • ‘Testability and Prediction’, Bergen Philosophy of Science Workshop, June 14
- ‘Testability and Prediction’, Methodologies in Science, University of Copenhagen, June 10
- 2013 • ‘Theoretical virtues and truth’, Department of Philosophy, University of Belgrade, March
- 2008 • ‘Refusing the bottom-up construction of scientific phenomena’, *Data-Phenomena-Theories conference*, University of Heidelberg, Germany, 11-13 September

#### **INVITED LECTURES**

- 2023 • „Schluss auf die Beste Erklärung, ungewisse Evidenz, und Bayesianismus“, Mainz Colloquium for History and Philosophy of Science, Jan 25
- 2022 • Predictivism and ad hoc-ness: an empirical study, colloquium talk at the EXTRA group at the University of Bochum, April 27
- 2021 • Explanation by Structural Necessitation. The Cognitive Science Research Group seminar the New College of the Humanities, London, May 19
- Theoretical Virtues: do scientists think what philosophers think they ought to think?, Bristol Centre for Science and Philosophy, April 20
- 2019 • Is simplicity epistemic?, Department of Philosophy, UCSD, informal seminar, March 2019
- Cases of scientific irrationality?, UCLA History, Philosophy, and Science of Science reading group, April 2019
- Model fictions, structural necessitation, and explanatory liberalism, Simon Fraser University, Spring Colloquium, Vancouver, Feb 1
- 2017 • Scientific Discovery, Interdisciplinary Centre for Science and Technology Studies (IZWT), Bergische Universität Wuppertal, Germany, November
- 2015 • Ad hoc-ness: a historico-philosophical analysis, Stevin Centre for the History of Science and Humanities & Department of Philosophy, Faculty of Humanities, VU Amsterdam, 15<sup>th</sup> May 2015. Commentaries by Kelvin McQueen and Henk de Regt (VU Amsterdam)
- 2014 • Scientific Discovery: that-what’s and what-that’s, Department of Philosophy, University of Durham, UK, 20<sup>th</sup> March.
- 2013 • Scientific Discovery: that-what’s and what-that’s, Department of Philosophy, University of Leiden, Nov.



- A matter of Kuhnian theory-choice? The GWS model and the neutral current, Department for the History and Philosophy of Science, University of Utrecht, Nov.
- 2011 • ‘Theory and evidence in the discovery of weak neutral currents’, Wissenschaftstheorie-und Wissenschaftsgeschichte, University of Berne, Switzerland, March
- 2009 • ‘The epistemic role of theories in data reliability judgements’, Department of Philosophy, University of Konstanz, Germany, October
- ‘Discerning a physical signal from background noise’, Department of Philosophy, University of Bielefeld, Germany, March
- ‘Discerning a physical signal from background noise’, Interdisciplinary Centre for Science and Technology Studies (IZWT), Bergische Universität Wuppertal, Germany, February
- 2008 • ‘Model, theory, and evidence in the discovery of the DNA structure’, Department of Philosophy, University of Birmingham, UK

#### **INVITED COMMENTARIES**

- “On Data Journeys: from ‘Raw’ to Evidential”. Lakatos Award Expert Workshop for Sabina Leonelli and her book *Data-centric biology*, LSE, 2018
- R. Dawid: ‘Understanding, String Dualities Empirical Equivalence’, Explanation and Understanding workshop, Aarhus University, 2016
- U. Krohs: “Convenience Experimentation”, Systems Biology Workshop, Aarhus University, 2011
- On M. Massimi’s “Carving nature at its joints: Boyd on Kantian Kinds. Between realism and constructivism”, Monday Monthly Meetings, Department of Philosophy, University of Konstanz, 2010
- R. Campaner’s “On causal explanation in the health sciences”, European Science Foundation Research Networking Program, Workshop: Explanation, Confirmation, and Prediction in Biology and Medicine, University of Konstanz, 2009

#### **PUBLIC LECTURES**

- “Star light bending and the eclipse measurements: re-assessed”, Astronomical Observatory, Belgrade, 2013
- “Why Philosophy of Science?”, Physics Colloquium, Department of Physics and Astronomy, Aarhus University, 2012
- “Scientific Knowledge through the lens of History and Philosophy of Science”, Open Day, *Zukunftskolleg*, University of Konstanz, 2010

### **STUDENT SUPERVISION**

#### **PHD SUPERVISION**

- Karen Kiil Brøcker: Intuitions in Linguistics (PhD project, 2016-2019), Committee: Michael Devitt (CUNY) and Ewa Dąbrowska (Tübingen, Germany), PhD defense successfully passed on October 4, 2019. Current employment: academic staff, Royal Library, Aarhus (tenured).

#### **POSTDOC SUPERVISION**

- Pierre Saint-Germier (2016-2019; 2.5 years; current employment: tenured research position at the French National Centre for Scientific Research (CNRS))
- Anna Daria Drożdżowicz (2016-2018; 2 years; current employment: associate professor at Inland Norway University of Applied Sciences, tenured)
- Sara Kier Praëm (2018-2019; 6 months; current employment: priest, tenured)

#### **GRADUATE EXAMINATION**

- External examiner for Omar El Mawas, Department of Philosophy, University of Durham. Dissertation topic: Varieties of Unconventional Scientific Realisms.

- Chair of dissertation committee for Sara Kier Praëm “The Role of Intuitions in Philosophical Methodology”, 2015 (Committee consisting of Asbjørn Steglich-Peterson, Otavio Bueno, and Nikolaj Nottelmann)

#### FURTHER STUDENT SUPERVISION

- PhD physics student colloquium, 2020 on the measurement problem in quantum mechanics
- MSc thesis supervision on group belief justification (2015-16)
- MSc project supervision on the Einstein-Podolsky-Rosen paradox (2015)
- BSc thesis supervision on reduction in genetics (2016)
- MSc physics student colloquium presentation on the measurement problem in quantum mechanics (2015)
- MSc physics student colloquium presentation on underdetermination and data patterns (2013)

## TEACHING

### AARHUS UNIVERSITY

*\* Note: the faculty introduced semester terms in 2017 and had a quarter system before (indicated with Q). S stands for spring term and F for fall term.*

- Undergraduate courses (50-200 students per class):
  - Philosophy of Biology (Q2 2014, Q1 2015)
  - Philosophy and Ethics of Science: Biology and Agrobiology (Q1 2016, F2017, S2018, F2019, F2020)
  - **Philosophy and Ethics of Science: Molecular Biology and Molecular Medicine (Q4 2013, Q4 2014, Q2 2016, annually since F2018)**
  - Philosophy and Ethics of Science: Physics, Chemistry, and Geoscience (Q3 2011, Q2 2012, Q2 2013, Q4 2015, Q4 2016, Q4 2017)
  - **Philosophy and Ethics of Science: Physics and Geoscience (annually since S2019)**
  - Philosophy and Ethics of Science: Chemistry and Medicinal Chemistry (F2020)
  - Philosophy of Information Technology (annually since 2015)
- Graduate courses
  - **Central Questions and Positions in the Philosophy of Science (biennially since 2013)**
  - **Advanced Topics in Philosophy of Science (biennially since 2012)**
  - Topical Readings in Science Studies (annually since 2015)
  - Theory and Evidence in Modern Physics (w/ Helge Kragh) (Q3 2013)

### OTHER UNIVERSITIES (TEACHING)

- Other graduate courses
  - Technical University of Denmark (DTU): 2 hour lecture on Scientific Misconduct to engineering PhD students (2014 & 15)
  - University of Konstanz: Epistemology of Experiment (2010), Natural Kinds (2011), HPS seminar (w/ M. Weber, 2011)
- Courses taught at the Department of Philosophy, University of Birmingham, UK (S2009; 30-50 students):
  - Philosophy of Psychology (lectures & seminars)
  - Philosophy of Science (lectures & seminars)
  - Philosophy Project (seminars)
  - Writing Skills (seminars)
- TA-ing at the University of Leeds (2006-2008):
  - Introduction to Philosophy, Ethics, History of Philosophy, Philosophy of Mind, Philosophy of Biology, Philosophy of Psychology

### LANGUAGES

English (fluent), German (native), Danish (fluent)

## REFERENCES

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