

SAMUEL KARL SCHINDLER

Curriculum Vitae

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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.

CURRENT POSITIONS AND AFFILIATIONS

- since 2011 Associate Professor of Philosophy of Science, Centre for Science Studies, Department of Mathematics, Aarhus University, Denmark (tenured since 2012)
- Member of the Research Unit for Epistemology, Metaphysics, and Philosophy of Cognition, Department of Philosophy, Aarhus University
- 2016-19 Principal Investigator of the DFF-Sapere Aude research group “Intuitions in Science and Philosophy”, grant number 4180-00071 (4 years)
- 2019 Visiting Professor, Department of Philosophy, University of British Columbia, Vancouver, Canada (Spring term)
- 2019 & 2021 Parental leave (3 + 3 months)

PREVIOUS POSITIONS AND FELLOWSHIPS

- 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
- 2010 Visiting fellow, Center of Philosophy of Science, University of Pittsburgh, USA, Sept. - Dec.
- 2009 Lecturer, Department of Philosophy, University of Birmingham, England, (Jan – June)
- 2008 Research fellow, Department of Philosophy, University of Stockholm, Sweden, (Sept – Dec.)

EDUCATION

- 2005-2008 Ph.D. in Philosophy, University of Leeds, England; Sept 2005-Sept 2008
- Supervisor: Prof. Steven French. External examiner: Prof. Hasok Chang.
- 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’

INSTITUTIONAL RESPONSIBILITIES

- Elected member of the Executive Committee of the *Zukunftskolleg*, University of Konstanz (for a period of 2 ½ years, from 2011)
 - Tasks involved the administration of an annual budget of 4.8 million EUR, 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)

MAJOR GRANTS

- ERC Consolidator Grant 2020 (European Research Council), qualified for interview stage
- DFF (Danish Council for Independent Research) *Sapere Aude Starting Grant* (~1 mio 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” (~ 1.2 mio 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 professorship at Aarhus University

OTHER GRANTS

- 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’, 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; selected first among more than 50 candidates (2011; declined due to job offer from Aarhus University)
- Guest researcher scholarship (6 months), *Swedish Institute*, 2008
- Doctoral stipend, *German Academic Exchange Service* (DAAD), 2007

ORGANIZATION OF ACADEMIC MEETINGS

Workshops:

- 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)

- Annual Meeting of the *British Society for the Philosophy of Science*, 2019 (Durham)
- *1st - 6th Philosophy of Scientific Experiment (PSX)*, 2020
- 1st and 2nd, and 3rd biennial meeting of the *East European Philosophy of Science Network*, 2018 (Bratislava), 2016 (Sophia)
- 9th biennial meeting of the *European Society for Analytic Philosophy*, 2017 (Munich)
- 4th and 7th biennial meeting of the *European Philosophy of Science Association*, 2013 (Helsinki) and 2019 (Geneva)

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 workshop series *Philosophy of Scientific Experiment (PSX)*, 2010

REFEREEING

- Journals (regularly): *The British Journal for the Philosophy of Science*, *Philosophy of Science (BJPS)*, *Synthese*, *Studies in History and Philosophy of Science A and B*, *Erkenntnis*, *European Journal for the Philosophy of Science (EJPS)*, *Journal for General Philosophy of Science*.
- Journals (occasionally): *Studies in History and Philosophy of Science C*, *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)*, *Netherlands Organisation for Scientific Research (Vici Scheme)*

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

ARTICLES (PEER-REVIEWED)

- (18) *Armchair Physics and the Method of cases*, (with Pierre Saint-Germier), forthcoming in *Inquiry*.
- (17) *Historical case studies: the “model organisms” of philosophy of science* (with Raphael Scholl), forthcoming in *Erkenntnis*
- (16) ‘Are thought experiments disturbing? The case of armchair physics.’ *with P. Saint-Germier (2020), forthcoming in *Philosophical Studies*, volume 177, pages 2671–2695.
- (15) ‘Experiments in Syntax and Philosophy: the method of choice?’ *with Karen Brøcker (2020), in *Linguistic Intuitions, Evidence and Method*. Oxford University Press.

- (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-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.

ARTICLES CURRENTLY UNDER REVIEW / WORKS IN PROGRESS

- (5) Armchair Physics and the Method of Cases (*with Pierre Saint-Germier), under review
- (4) Philosophical Expertise put to the Test (*with Pierre Saint-Germier), under review
- (3) Explanation by Structural Necessitation
- (2) Theoretical Virtues: do scientists think what philosophers think they ought to think?
- (1) Pseudo-solutions to the demarcation problem

OTHER ARTICLES

- (3) Introduction for collection on 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*. OUP. Forthcoming in the *BJPS*.
- (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

- 2021
 - Theoretical virtues: do scientists think what philosophers think they ought to think?
 - Online XPhi Europe Conference, June 2021
 - Online Poster Forum of the Philosophy of Science Association (PSA), January 2021.
 - Putting philosophical expertise to the test (w/ Pierre Saint-Germier)
 - Annual meeting of the Society for Philosophy and Psychology, June/July 2021
 - Online XPhi Europe Conference, June 2021
- 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

- 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

- 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, 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, 15th 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, 20th 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, 2013
- “Why Philosophy of Science?”, Physics Colloquium, Department of Physics and Astronomy, Aarhus University, 2010
- “Scientific Knowledge through the lens of History and Philosophy of Science”, Open Day, *Zukunftskolleg*, University of Konstanz, 2012

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.

- Extensive experience with teaching both philosophy and science students (physics, chemistry, biology, geology, engineering, computer science)
- Undergraduate courses (50-200 students per class):
 - Philosophy of Biology (Q2 2014, Q1 2015)
 - Philosophy and Ethics of Science: Biology and Agrobiology (Q1 2016, F 2017, S 2018, F 2019)
 - Philosophy and Ethics of Science: Molecular Biology and Molecular Medicine (Q4 2013, Q4 2014, Q2 2016, F 2018, F2019)
 - Philosophy and Ethics of Science: Physics, Chemistry, and Geoscience (Q3 2011, Q2 2012, Q2 2013, Q4 2015, Q4 2016, Q4 2017)
 - Philosophy of Information Technology (Q3 2015, Q3 2016, Q3 2017)
- Graduate courses
 - Central Questions and Positions in the Philosophy of Science (Q1 2013, Q2 2016, F 2017, F 2019)
 - Advanced Topics in Philosophy of Science (Q1 2012, Q3 2014, Q3 2016)
 - Topical Readings in Science Studies (Q3 2015, Q2 2015, Q3 2016, Q3 2017)
 - Theory and Evidence in Modern Physics (w/ Helge Kragh) (Q3 2013)

OTHER UNIVERSITIES

- 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 (S 2009; 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

GRADUATE ADVISING

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)

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

FURTHER STUDENT SUPERVISION

- Toke Vibel, Wigner’s friend and the measurement problem in quantum mechanics, PhD physics student colloquium, 2020
- George G. Economou: Trust as means for group belief justification (MSc thesis, 2015-16)
- Jacob Mønsted Nielsen: On the reduction of classical genetics to molecular genetics and the concept of the gene (BSc thesis, 2016)
- Mathias Jørgensen: the Einstein-Podolsky-Rosen paradox (MSc project, 2015)
- Jeppe D. Christiansen: The measurement problem and quantum mechanics (MSc physics student colloquium presentation, 2015)
- Sarah W. Krog: Underdetermination and patterns in data (MSc physics student colloquium presentation, 2013)

LANGUAGES

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

REFERENCES

- Edouard Machery**, Distinguished Professor, Director of the Center for Philosophy of Science at the University of Pittsburgh, Center for Philosophy of Science, University of Pittsburgh, 1117 CL Pittsburgh PA 15260 USA, ☎ +1 412 624 5883, ✉ machery@pitt.edu.
- Stathis Psillos**, Professor of Philosophy of Science and Metaphysics, Department of Philosophy & History of Science, University of Athens, Panepistimioupolis-University Campus, 157 71 Athens, Greece, ☎ + 30 210 727 5538, ✉ psillos@phs.uoa.gr.
- Steven French**, Professor of Philosophy of Science, University of Leeds, Woodhouse Lane, Leeds, LS2 9JT, UK, ☎ +44 (0113) 343 3279, ✉ S.R.D.French@leeds.ac.uk.
- Hasok Chang**, Hans Rausing Professor of History and Philosophy of Science, Department of History and Philosophy of Science, University of Cambridge, Free School Lane, Cambridge, CB2 3RH, United Kingdom, ☎ +44 1223 334500, ✉ hc372@cam.ac.uk.
- Marcel Weber**, Professor for Philosophy of Science, Département de Philosophie, Université de Genève, 2, rue de Candolle, CH-1211 Genève 4, Switzerland ☎ +41 22 379 7050, ✉ Marcel.Weber@unige.ch
- Kristian Hvidtfelt Nielsen**, Head of Centre for Science Studies, Department of Mathematics, Aarhus University, Ny Munkegade 118, 8000 Aarhus C, Denmark, khn@css.au.dk, ☎ +44 87155591, ✉ khn@css.au.dk.