

# SAMUEL KARL SCHINDLER

## *Curriculum Vitae*

(Dec 2011)

Nationality: German

Date of Birth:

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Centre for Science Studies	Tel: 0045-871-56308
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Denmark	<a href="http://www.samuelschindler.org">http://www.samuelschindler.org</a>

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AREA OF SPECIALISATION:	Philosophy and History of Science
Research Interests:	Theory-assessment, theory-ladenness, theoretical virtues, experiment, the nature of explanation
AREA OF COMPETENCE:	Epistemology, Philosophy of Cognitive Science and Mind, ethics

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## POSITIONS

10/2011-	Associate Professor for Philosophy of Science Center for Science Studies, University of Aarhus, Denmark
05/2011– 10/2011	DFG-Emmy-Noether research group leader (equivalent to Junior Professor), University of Konstanz, Germany 5-year-research project, funded by the German-Research-Foundation (DFG)
09/2010- 12/2010	Visiting research fellow Center of Philosophy of Science, University of Pittsburgh, USA
07/2009 – 04/2011	Postdoctoral Research Fellow <i>Zukunftskolleg</i> & Department of Philosophy, University of Konstanz, Germany
01/ 2009 – 06/ 2009	Lecturer (temporary) University of Birmingham, England
10/2008 – 12/2008	Postdoctoral Research Fellow University of Stockholm, Sweden
01/2006 – 04/2008	Teaching Assistant Department of Philosophy, University of Leeds, UK

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## EDUCATION

09/ 2005 – 09/2008	Ph.D. in Philosophy University of Leeds, England Thesis title: <i>The Imaginary Entities that Make Science</i>
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Thesis topic: mechanistic explanations and realist commitments  
Supervisor: Professor Steven French  
External examiner: Professor Hasok Chang (University College London)

- 09/2004 – M.A. in History and Philosophy of Science  
09/2005 University of Leeds, England  
Dissertation title: *Imaginary-Constitutives and Other Models. A Classificatory Clarification*  
Supervisor: Professor Steven French  
Predicate: distinction
- 09/ 2003 – Visiting student at the Faculty of Arts  
06/ 2004 McGill University, Montréal, Canada  
Classes taken in Modern Linguistics and Philosophy of Science (with Professor Mario Bunge)
- 10/ 2000 – B.Sc. in Cognitive Science  
08/ 2003 University of Osnabrück, Germany  
Thesis supervisor: Professor Achim Stefan  
Overall predicate: Very Good
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## PUBLICATIONS

### PEER-REVIEWED

- (1) 'Rehabilitating Theory: Refusal of the "bottom-up" Construction of Scientific Phenomena', *Studies in the History and the Philosophy of Science*, 2007, Volume 38, Issue 1, March 2007, pp. 160-184
- (2) 'Use-Novel Predictions and Mendeleev's Periodic Table', *Studies in History and Philosophy of Science*, 2008, Volume 39, issue 2, pp. 265-269
- (3) 'Model, Theory, and Evidence in the Discovery of the DNA Structure', *The British Journal for the Philosophy of Science*, December 2008, Volume 59, issue 4, pp. 619-658; the article was ranked #19 in the list of top 40 articles accessed in 2010
- (4) 'Bogen and Woodward's data/phenomena distinction and forms of theory-ladenness', *Synthese*, Volume 182, Issue 1 (2011), pp. 39-55.
- under review* 'Theory-driven data reliability judgments: a new form of theory-ladenness?'
- under review* 'Novelty, Coherence, and Mendeleev's periodic table'
- in preparation* Weak Neutral Currents Revisited
- in preparation* 'Conceptual lacunae in A. Bokulich's account of explanatory fictions'
- in preparation* 'Mechanistic explanations: asymmetry lost'
- in preparation* 'Facing Giere's challenges to the History and Philosophy of Science'

### COMMISSIONED

- (5) "Conceptions of Causality" (book review of *Thinking about Causes: From Greek Philosophy to Modern Physics*, Peter K. Machamer, Gereon Wolters (eds.), University of Pittsburgh Press, 2007), *Metascience*, Volume 18, Issue 2, p. 301

- (6) "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, to appear in late 2010 (Berlin: Springer)
- forthcoming* "Experimental Knowledge", *Internet Encyclopaedia for Philosophy*

## INVITED TALKS

- 03/2011 'Theory and evidence in the discovery of weak neutral currents',  
Wissenschaftstheorie-und Wissenschaftsgeschichte, University of Berne, Switzerland
- 10/2009 'The epistemic role of theories in data reliability judgements', Department of  
Philosophy, University of Konstanz, Germany
- 03/2009 'Discerning a physical signal from background noise', Department of Philosophy,  
University of Bielefeld, Germany
- 02/2009 'Discerning a physical signal from background noise',  
Interdisciplinary Centre for Science and Technology Studies (IZWT), Bergische  
Universität Wuppertal, Germany
- 06/2008 'Model, theory, and evidence in the discovery of the DNA structure',  
Department of Philosophy, University of Birmingham, UK

## PEER-REVIEWED TALKS & PRESENTATIONS

- 2012 • 'Facing Giere's challenges to the History and Philosophy of Science'  
&HPS4: *Second Conference in Integrated History and Philosophy of Science*, University of  
Athens, Greece, 15-18 March
- 2011 • 'Mechanistic Explanations: Asymmetry lost', Biannual 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',  
– University of Brighton, *The British Society for the Philosophy of Science Annual  
Conference*, 7-8 July  
– University of Gent, *CaEitS2011: Causality and Explanation in the Sciences*, 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
  - ‘Refusing the bottom-up construction of scientific phenomena’, *Data-Phenomena-Theories conference*, University of Heidelberg, Germany, 11-13 September
  - ‘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
  - Invited panelist at *&HPS1: First Conference in Integrated History and Philosophy of Science*, Center for Philosophy of Science, University of Pittsburgh, USA, 11-13 October
  - ‘The ignorance of Evidence as a facilitator of theory-change’ & roundtable discussion with Steven French and Hasok Chang on ‘Should we stop teaching Thomas S. Kuhn?’, *Changing Conceptions of Scientific Change, Leeds/UCL Joint HPS Workshop*, Leeds, 22 June
- 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 COMMENTARIES

- 08/2011      Comments on U. Krohs’s “Convenience Experimentation”, *Systems Biology Workshop*, University of Aarhus, August
- 04/2010      Comments on M. Massimi, "Carving nature at its joints: Boyd on Kantian kinds. Between realism and constructivism", *Monday Monthly Meetings*, Department of Philosophy, University of Konstanz

10/2009      Comments on 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, 2-4 October

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## PUBLIC LECTURES

06/2010      "Scientific Knowledge through the lens of History and Philosophy of Science", Open Day, *Zukunftskolleg*, University of Konstanz

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## SERVICE ACTIVITY

### INSTITUTIONAL

04 -08/2011      Elected member of the Executive Committee of the *Zukunftskolleg*, University of Konstanz (term time 2 ½ years)

- Administration of a yearly budget of ca. 4.8 Mill Euros
- Selection of cofounding applications
- Strategic planning

### ORGANISATIONAL

10/2015      Co-organizer (with Hanne Andersen) of the Biennial Meeting of the Society for Philosophy of Science in Practice (SPSP), University of Aarhus

10/2011      Chair of the organizing committee (incl. John Norton, Deborah Mayo, Marcel Weber, and Wendy Parker) of *PSX2 – International Workshop on the Philosophy of Scientific Experiment*, Department of Philosophy, University of Konstanz

### CONFERENCES & WORKSHOPS

11/2010      Chair for the session "Explanation and reduction", PSA, Montreal

10/2010      Chair at *Philosophy of Scientific Experimentation: A Challenge to Philosophy of Science*, Center for Philosophy of Science, University of Pittsburgh, 15-17 October

06/2009      Chair at *Philosophy of Darwin Royal Institute of Philosophy Conference*, University of Birmingham, Department of Philosophy

06/2007      Chair at *The 2nd Annual CMM Graduate Conference*, Centre for Metaphysics and Mind, University of Leeds

### REFEREEING

*The British Journal for the Philosophy of Science* (4x), *Philosophy of Science*, *Synthese*, *Studies in History and Philosophy of Modern Physics*, *International Studies in the Philosophy of Science*, *Journal for General Philosophy of Science*, *The Leverhulme Trust*, *The 2nd Annual Centre for Metaphysics and Mind Graduate Conference*, University of Leeds

### MISCELLANEOUS

05/2007      Co-authorship of a tutorial for the History and Philosophy of Science for *Intute: Virtual Training Suite*; funded by the Joint Information Systems Committee (JISC)

PROFESSIONAL MEMBERSHIP

British Society for the Philosophy of Science (BSPS), Philosophy of Science Association (PSA), European Philosophy of Science Association (EPSA), American Philosophical Society (APA)

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TEACHING

10-12/2011	Philosophy of Physics, Aarhus University	Lecture
04-07/2011	History and Philosophy of Science colloquium, Department of Philosophy, University of Konstanz, Germany <ul style="list-style-type: none"><li>run jointly with Prof. Marcel Weber and Dr. Jeff Kochan</li><li>guest speakers: Prof. David Bloor and Prof. Andy Pickering</li></ul>	Postgraduate seminar
04-07/2011	Natural Kinds, Department of Philosophy, University of Konstanz, Germany	Postgraduate seminar
04-07/2010	The Epistemology of Experiment, Department of Philosophy, University of Konstanz, Germany	Postgraduate seminar
01-06/2009	<ul style="list-style-type: none"><li>Lectures &amp; seminars in Philosophy of Science (58 second year undergraduate students)</li><li>Philosophy of Psychology (38 third year undergraduates),</li><li>seminars in Independent Studies (60 second year undergraduates),</li><li>Personal tutor for twenty 2<sup>nd</sup> year students</li></ul> All at the University of Birmingham, England	Upper undergraduate lectures and seminars (incl. essay marking)
11/2007	2 x three hour-long lectures in Philosophy of Science (first-year PhD students of the social sciences) within <i>Social Sciences Research Training Programme</i> (SSRTP) at the Graduate School, University of Bradford	Postgraduate lectures
03/2008	<i>Truth and Realism</i> (3 <sup>rd</sup> year) Introduction of the realism antirealism debate in the Philosophy of Science, University of Leeds	Upper undergraduate level teaching (lecture + seminar)
09/07 – 04/08	<i>Introduction to Philosophy, Introduction to Ethics, Introduction to the History of Philosophy, and The Mind</i> , University of Leeds	Lower undergraduate level tutoring (incl. essay and exam marking)
01-05/2007	<i>How Science Works</i> (i.e. Introduction to Philosophy of Science) and <i>Philosophy of Psychology</i> , University of Leeds	
01-05/2006	<i>How Science Works</i> , Department of Philosophy, University of Leeds	

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## GRANTS & SCHOLARSHIPS

06/2011	Successful application for a <i>Zukunftskolleg</i> Senior Fellowship award for Prof. Giora Hon
04/2011	Zukunftskolleg cofounding grant for <i>PSX2 – International workshop for the Philosophy of Scientific Experimentation</i> (8,100 Euros)
03/2011	Offer for a one-year postdoctoral fellowship at the Department of Philosophy at the University of San Francisco State University, USA (selected first among more than 50 candidates), funded by a project led by Prof. Bas van Fraassen and Dr. Isabelle Peschard; declined
01/2011	5 year-DFG-Emmy-Noether research grant (~1.5 million Euros)
09/2010	Visiting Fellowship (\$6000), Center of Philosophy of Science, University of Pittsburgh, USA; short-listed for postdoc fellowship
06/2008	6 months Postdoctoral Guest Scholarship ( <i>Swedish Institute</i> ) to be held at the University of Stockholm, Sweden (€ 6,000)
2006/7	Educational Grant for doctoral studies by the <i>Newby Trust Ltd.</i> (2 x £500)
07/2006	One year doctoral scholarship by the <i>German Academic Exchange Service (DAAD)</i> , (€ 14,000)

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## PROFESSIONAL DEVELOPMENT

06/2009	Inquiry-based learning, Departmental workshop, University of Birmingham
2005/06 & 2006/07	Departmental Tutors' Workshop, Departmental induction seminars for teaching assistants, University of Leeds

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## LANGUAGES

German:	mother tongue
English:	fluent
Latin:	1991 – 1998; <i>Latinum</i> ; awarded in 1998
French:	reading competence and basic communication skills

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## REFEREES

**Marcel Weber**, Professor for Philosophy of Science, University of Konstanz, Postbox D9, 78457 Konstanz, Germany, ☎ +49 (0)7531 88-2567, ✉ marcel.weber@uni-konstanz.de

**Steven French**, Professor of Philosophy of Science and Head of Department, Department of Philosophy, University of Leeds, Woodhouse Lane, Leeds, LS2 9JT, UK, ☎ +44 (0113) 343 3279, ✉ S.R.D.French@leeds.ac.uk

**Alex Miller**, Professor and Head of Department, Department of Philosophy, University of Birmingham, Edgbaston, Birmingham, B15 2TT, UK, ☎ + 44 (0)121 414 7539, ✉ A.Miller@bham.ac.uk

**Hasok Chang**, Professor in Philosophy of Science, Department of Science and Technology Studies,  
University- College London, Gower St., London WC1E 6BT, United Kingdom, ☎ +44-(0)20-7679-  
1324, ✉ h.chang@ucl.ac.uk

**James Woodward**, J.O. and Juliette Koepfli Professor of the Humanities, California Institute of  
Technology, Division of the Humanities and Social Sciences, MC 101-40, Pasadena, CA 91125,  
☎ +1 (0) 626-395-4163, ✉ jfw@hss.caltech.edu

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Aarhus, December 2011