

Curriculum Vitae: Charlotte Werndl – January 2010

Areas of Specialisation: General philosophy of science, philosophy of physics, philosophy of biology, philosophy of mathematics, epistemology
Areas of Competence: Logic, philosophy of language, philosophy of economics, history of philosophy (in particular history of analytic philosophy and British empiricism)

ACADEMIC APPOINTMENTS

Junior Research Fellow (10.2009-10.2012). The Queen's College, Oxford University, High Street, Oxford, OX1 4AW. Duties: mainly research, some teaching, undergraduate admission interviews.

HIGHER EDUCATION

From 10.2006 **Ph.D. programme in philosophy**, Faculty of Philosophy, St John's College, Viva: 14.01.2010 **University of Cambridge**. Supervisor: Dr Jeremy Butterfield.
09.2000-06.2006 **Master and bachelor programme in philosophy, University of Salzburg**.
Awarded: 26.06.06 Degree with highest honours. Each course and the thesis marked 'Excellent'.
09.2003-03.2006 **Master programme in applied mathematics, University of Salzburg**. Degree
Awarded: 24.03.06 with highest honours. Each course and the thesis marked 'Excellent'.
08.2005-12.2005 **Visiting graduate student, Department of Philosophy, Duke University, US**.
Specialisation in philosophy of biology. Three graduate courses marked 'Excellent'.
09.2003-07.2004 **Erasmus student, Diploma in Advanced Study, Oxford Brookes University**,
Awarded: 08.07.04 Oxford, UK. Nine courses in philosophy and mathematics marked 'Excellent'.
09.2000-08.2003 **Bachelor in mathematics, University of Salzburg**. Degree with highest honours.
Awarded: 12.08.03 Each course and the thesis marked 'Excellent'.

PUBLICATIONS

ARTICLES IN PEER-REVIEWED JOURNALS

2009a: What Are the New Implications of Chaos for Unpredictability? **The British Journal for the Philosophy of Science** 60, 195–220.
2009b: Are Deterministic Descriptions and Indeterministic Descriptions Observationally Equivalent? **Studies in History and Philosophy of Modern Physics** 40, 232–242.
2009c: Justifying Definitions in Mathematics – Going Beyond Lakatos. **Philosophia Mathematica** 17, 313–340.
2008: The Evolutionary Foundation of Poppers Concepts of Three Worlds: A Neglected Perspective for Human Geography. **Geographische Zeitschrift** 94, 129–141 [with M. Schafranek and F. Huber]

CONTRIBUTIONS IN BOOKS

2009: Entropy – A Guide for the Perplexed. In: Hartmann, S. and Beisbart, C. (eds) **Probabilities in Physics**. Oxford University Press, forthcoming [with R. Frigg, fully collaborative, peer-reviewed].
2009d: Deterministic Versus Indeterministic Descriptions: Not That Different After All? In: Leitgeb, H. and Hieke, A. (eds) **Reduction, Abstraction, Analysis**. Ontos, 63–78.
2009e: On the Formulation and Justification of Mathematical Definitions: the Case of Deterministic Chaos. In: Dorato, M., Rédei, M. and Suárez, M. (eds) **Philosophical Issues in the Sciences: Launch of the European Philosophy of Science Association**. Springer, forthcoming, peer-reviewed.
2010a: Typicality in Statistical Mechanics Reconsidered: An Approach based on KAM Theory. In: Ben-Menahem, Y. and Hemmo, M. (eds) **Probability in Physics**. Springer, forthcoming, peer-reviewed [with R. Frigg, fully collaborative work].

REVIEWS IN PEER-REVIEWED JOURNALS

2010c: Review: 'Bigger Than Chaos: Understanding Complexity Through Probability' (Michael Strevens). **The British Journal for the Philosophy of Science**, forthcoming.
2006: Review: 'Rationality in Applied Ethics' (Pavel Fobel, Gerhard Banse, Andrzej Kiepas, Gerhard Zecha, eds). **Kriterion – Journal of Philosophy** 19 [with Angelberger, A.J.J., Armstrong, B., Berger W.F. and Gratzl, N., fully collaborative work].

REFeree FOR: Philosophy of Science (2010), Studies in History and Philosophy of Modern Physics (2009), Synthese (2006, 2008), The British Journal for the Philosophy of Science (2008, 2009), Oxford University Press (2009).

TEACHING

PRACTICAL EXPERIENCE

- Hilary Term 2010 **Supervising (two-to-one teaching)** in philosophy of physics (first year), Faculty of Philosophy, **University of Oxford**.
- Lent term 2009 **Discussion group leader (small group teaching)**, approx. 12 students), philosophy of science (second year), Faculty of Philosophy, **University of Cambridge**.
- Academic year 2007/2008 and 2008/2009 **Instructor for first-year logic classes** (small group lecturing, approx. 10 students), Faculty of Philosophy, **University of Cambridge**.
- Easter Term 2008 **Supervising (one-to-one teaching)** in logic and philosophy of language (second year), Faculty of Philosophy, **University of Cambridge**.
- Lent term 2007 and Micheltmas term 2008 **Discussion group leader (small group teaching)**, approx. 12 students) in philosophy of probability (second year), Faculty of Philosophy, **University of Cambridge**.
- Easter term 2007 **Supervising (one-to-one teaching)** in history of philosophy (British empiricism) (first year), Faculty of Philosophy, **University of Cambridge**.
- Academic year 2006/2007 **Marker for first-year logic classes**, involved marking students' work and some teaching in class, Faculty of Philosophy, **University of Cambridge**.
- Summer term 2006 **External university lecturer** for the interdisciplinary course 'Self-Organisation and Systems Theory', **graduate course**, Center for Internet and Communication Technologies and Society, **University of Salzburg**, Austria (with two colleagues).
- Winter term 2005/2006 **External university lecturer** for the interdisciplinary course 'Self-Organisation – World Views, Theories, Applications', **graduate course**, **University of Applied Sciences and Arts Zurich**, Switzerland (with two colleagues).
- 19.04.2005 **Invited guest lecture** 'Models of Self-organisation in Science' in the **graduate course** 'Technology Assessment', Department of Communication Studies, **University of Salzburg**, Austria.
- Winter term 2004/2005 **External university lecturer** in Human Geography for the course 'Perspectives on Self-Organisation in Science', third year students, **University of Kassel**, Germany (with two colleagues).

COURSES AND WORKSHOPS

- Lent term 2007 **Philosophy Faculty Teaching Skills Training Programme**, workshops and sessions on one-to-one teaching, group teaching, presentation skills and support of students with disabilities, Faculty of Philosophy, **University of Cambridge**.
- 08.2009-09.2009 **Undergraduate Admissions Course and Admissions Interviewing Practice Workshop**, preparation for conducting admission interviews at Oxford University, Oxford Learning Institute, **University of Oxford**.

TALKS

- 08.05.2010: Über die Äquivalenz der Vorhersagen von deterministischen und indeterministischen Beschreibungen, invited talk, **Center for Philosophy and Ethics of Science, Leibniz University of Hannover**, Germany.
- 10.02.2010: Underdetermination Between Deterministic and Indeterministic Descriptions, invited talk, **Philosophy and History of Science Seminars**, Philosophy Department, **University of Bristol**.
- 17.12.2009: Über die Ununterscheidbarkeit von deterministischen und indeterministischen Beschreibungen, invited talk, **research seminar**, Faculty of Philosophy, **University of Salzburg**.

12.11.2009: Determinism Versus Indeterminism: Some Results on Observational Equivalence, invited talk, **Philosophy of Physics Research Seminar**, Faculty of Philosophy, **University of Oxford**.

24.10.2009: The Indistinguishability of Deterministic and Indeterministic Descriptions, **Second Conference of the European Philosophy of Science Association**, Amsterdam, The Netherlands.

20.07.2009: Are Deterministic and Indeterministic Descriptions Observationally Equivalent?, invited talk, **workshop ‘Philosophy of Probability in Physics’**, **University of Munich**, Germany.

02.07.2009: Justifying Definitions in Mathematics – Going Beyond Lakatos, **Conference ‘Two Streams in the Philosophy of Mathematics: Rival Conceptions of Mathematical Proof’**, Hatfield.

02.06.2009: The Observational Equivalence of Continuous Deterministic and Indeterministic Descriptions, invited talk, **Philosophy of Physics Seminar**, Faculty of Mathematics, **University of Cambridge**.

03.03.2009: The Indistinguishability of Deterministic and Indeterministic Descriptions, invited talk, **Moral Sciences Club**, Faculty of Philosophy, **University of Cambridge**.

26.02.2009: Deterministic Versus Indeterministic Descriptions: Not That Different After All?, invited talk, **Philosophy of Physics Discussion Group**, **Oxford University**.

15.08.2008: To What Extent Can Determinism be Simulated by Indeterminism and Conversely?, invited speaker, **31st International Wittgenstein Symposium**, Kirchberg am Wechsel, Austria.

11.06.2008: What Is the Unpredictability Unique to Chaos?, invited talk, **Philosophy and History of Science Seminars**, Department of Philosophy, **University of Bristol**.

18.02.2008: What Are the New Implications of Chaos for Unpredictability?, invited talk, **Sigma Club**, Centre for Philosophy of Natural and Social Science, **London School of Economics**.

30.01.2008: Definitions in Mathematics—Going Beyond Lakatos, invited talk, **St John’s Moral Sciences Club**, **University of Cambridge**.

07.12.2007: On the Justification and Formation of Mathematical Definitions: The Case of Deterministic Chaos, invited talk, **Paris-London-Tilburg Workshop in Logic and Philosophy of Science**, Paris.

15.11.2007: Mathematical Definitions that Capture Real-World Phenomena or Features: On the Formation and Justification of Definitions, **First Conference of the European Philosophy of Science Association**, Madrid, Spain.

31.10.2007: The Special Kind of Unpredictability of Chaotic Systems, **Philosophy Workshop**, Department of History and Philosophy of Science, **University of Cambridge**.

31.03.2007: What is the New Implication of Chaos for Unpredictability?, **15th UK and European Meeting on the Foundations of Physics**, University of Leeds.

25.01.2007: Definitions of Classical Chaos and Their Applicability to Physics, invited talk, **Philosophy of Physics Discussion Group**, Faculty of Philosophy, **University of Oxford**.

14.12.2006: Ueberlegungen zu den Implikationen von Chaos auf Vorhersagbarkeit und Bestaetigung, invited talk, **research seminar**, Department of Philosophy, **University of Salzburg**.

27.11.2006: Definitions of Classical Dynamical Chaos, invited talk, Faculty of Mathematics, **University of Cambridge**.

ADMINISTRATIVE EXPERIENCE AND PROFESSIONAL ACTIVITIES

December 2009 **Admission interviews and deciding whom to admit as undergraduates in philosophy**, the Queen’s College, **University of Oxford**.

09.2007–09.2009 **Ph.D. Representative of the University of Cambridge, British Postgraduate Philosophy Association (BPPA)**, involved the construction and maintenance of the BPPA webpage, discussing and deciding agendas and actions of the BPPA, providing graduates and post-docs with information relevant to their career, reporting to the BPPA the interests of graduates and post-docs.

08.2004–08.2005 **Delegate of the Council of the Faculty of Humanities** at the University of Salzburg, Austria, involved discussions and voting on how to allocate money and resources to teaching and research in the Humanities.

08.2004-08.2005 **Delegate of the Representation of the Faculty of Humanities** at the University of Salzburg, Austria, involved discussions and preparation of proposals on the strategic development of teaching and research in the Humanities.

PROFESSIONAL AFFILIATIONS

Aristotelian Society, British Society for the Philosophy of Science, European Philosophy of Science Association, Philosophy of Science Association.

AWARDS

- 10.2006-10.2009 **Honorary Cambridge European Trust Scholar**, Fellow of the Cambridge European Society, University of Cambridge (100 Pounds per year).
- 12.2006 **Award for outstanding achievements in the master's programme in philosophy** from the University of Salzburg (750 Euro).
- 12.2006 **Award for outstanding achievements in the bachelor programme in philosophy** from the University of Salzburg (750 Euro).
- 12.2006 **Award for outstanding achievements in the master's programme in applied mathematics** from the University of Salzburg (945 Euro).
- 10.2006 **Hans Stegbuchner Award for my master's thesis in applied mathematics** from the Department of Mathematics, University of Salzburg (500 Euro).
- 07.2005 **Award of advancement for my master thesis in philosophy** from the University of Salzburg (700 Euro).
- 11.2003 **Award for extraordinary achievements in the bachelor programme of mathematics** from the University of Salzburg (726 Euro).
- 06.2003 **Hans Stegbuchner Award for extraordinary achievements in the academic year 2002/2003**, Department of Mathematics, University of Salzburg (300 Euro).

SCHOLARSHIPS

- 10.2006-10.2009 **Benefactors' Scholarship** from St. John's College for my Ph.D. studies at Cambridge, covering tuition and College fees (5790 Pounds per year), living expenses (12500 Pounds per year) and research expenses (500 Pounds per year).
- 08.2005-12.2005 **Joint Study Scholarship** for a postgraduate stay at Duke University from Duke University Graduate School and the Austrian State covering tuition fees (12968 Dollar), living expenses (3900 Euro) and travel costs (730 Euro).
- 08.2005-12.2005 **Scholarship from the Julius Raab Foundation** for a postgraduate stay at Duke University Graduate School (600 Euro).
- 08.2005-12.2005 **Scholarship from the Kulturfonds of the City of Salzburg** for a postgraduate stay at Duke University Graduate School (500 Euro).
- 11.07.2004-27.07.2004 **Scholarship from the foundation Politheia** for the summer school 'Poland today 2004' covering travel costs, tuition fees and living expenses (500 Euro).
- 09.2003-07.2004 **Erasmus scholarship** for a stay at Oxford Brookes University covering tuition fees (1175 Pounds) and living expenses (2500 Euro).

SUMMER SCHOOLS AND OTHER COURSES

- 21.08.2006-28.08.2006 **Advanced Programming in C/C++**, Didact Summer School, **University of Salzburg**, Austria.
- 13.10.2004-15.10.2004 Participation in the seminar **'Fortress Europe? The EU in a globalized world'**. **Heinz-Schwarzkopf-Foundation Young Europe**, Berlin, Germany. Scholarship from the Heinz-Schwarzkopf-Foundation.
- 11.07.2004-27.07.2004 **Summer school 'Poland Today 2004'**. Department of Political Science, **University of Warsaw**, Poland. Scholarship from the foundation Politheia.

17.02.2004-
18.05.2004
07.2002
08.2000

Course ‘Building a Business’. Oxford Science Enterprise Centre, Said Business School, **Oxford University**, Oxford.
Participation in the **International Summer Academy of Fine Arts** in Salzburg. Photography (Linda Tröller), scholarship from the Fund for Culture of Salzburg.
Participation in the **International Summer Academy of Fine Arts** in Salzburg. Photography and painting, (Rivka Rinn), scholarship from the Fund for Culture.

LANGUAGE SKILLS

German: Native language; English: Excellent; Latin: Very Good; French: Basic Knowledge

LIST OF REFERENCES

Professor Robert Brandon
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27708 Durham, North Carolina,
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Dr Roman Frigg
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and Scientific Method, London
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Professor Maximilian Thaler
Department of Mathematics
University of Salzburg
Hellbrunnerstrasse 34
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HOBBIES AND INTERESTS Playing the piano, classical music; politics; international newspapers; photography; sports (climbing, hiking, tennis, cycling, running, cross-country skiing).

PERSONAL DETAILS AND CONTACT DETAILS

Name: Miss Charlotte Werndl; Date of Birth: 30.12.1981; Nationality: Austrian.
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