

Karola Stotz

Curriculum Vitae

Australian Research Council Australian Research Fellow

Department of Philosophy
University of Sydney, Quadrangle A14, NSW 2006, Australia

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Citizenship: Australian and German; Marital status: Married

Jan 2013

Education

PhD in Philosophy 1999, University of Ghent (Belgium)

Doctoral dissertation: *Interactive Construction: Organizational Constraints on Evolution and Cognition*. Committee: Gertrudis Van de Vijver (Philosophy), Werner Callebaut

(Philosophy), Walter Verraes (Biology), Marc de May (Psychology), Gert Mueller (Biology)

Magister Artium in Biology and Social Sciences, 1993, University of Mainz (Germany)

Academic Positions

2014 University of Sydney, Department of Philosophy, Templeton Senior Research Fellow

2013 University of Sydney, Department of Philosophy, Bridging Support Fellow

2008-12 University of Sydney, Department of Philosophy, ARC Australian Research Fellow

2005-2007 Indiana University, Cognitive Science Program, Research Fellow

2002-2005, University of Pittsburgh, Department of History and Philosophy of Science, Research Associate

2000-2001 Visiting Fellow, Center for the Philosophy of Science, University of Pittsburgh

1999-2000 University of Sydney, Unit for History and Philosophy of Science, Research Associate

1997-1998 University of Ghent (Belgium), Department of Philosophy, Postgraduate Fellow

1993-96 Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, Postgraduate Research Fellow

Books, edited collection

Publications, Synergistic Activities, Invited Lectures

Stotz, K. and P.E. Griffiths. 2013. *Genetics and Philosophy: An Introduction*. Cambridge Studies in Philosophy and Biology. Cambridge University Press

Stotz, K. In preparation. Developmental Niche Construction: a unified framework for extended inheritance. To be submitted to 'Life and Mind' Series, MIT Press.

Stotz, K. Ed. 2009. *Philosophy in the Trenches: From Naturalized Philosophy to Experimental Philosophy (of Science)*. Minisymposium. *Studies in History and Philosophy of Science A* 40 (2).

Stotz, K. and C. Allen. Eds., 2008. *Reconciling Nature and Nurture in the Study of Behavior*. Special Issue, *Philosophical Psychology* 21 (3).

Stotz, K. Ed. 2004. *Genes, Genomes and Genetic Elements*. Special Issue, *History and Philosophy of the Life Sciences* 26 (1).

Articles In Press, Under review, and In preparation

Stotz, K. In preparation. 'How (not) to be a reductionist in a complex universe'. Preprint in PhilSci Archive: <http://philsci-archive.pitt.edu/3866/>

Stotz, K. Forthcoming. 'Developmental evolutionary Psychology'. *Frontiers in Psychology* ('*Evolutionary Theory: Fringe or Central to Psychological Science*').

Stotz, K, and M. O'Malley. Forthcoming. 'Dimensions of Translation'. *JAMA*.

Stotz, K. In press. "Die Entwicklungsnische als Integrationsrahmen erweiterter Vererbungssysteme." In: *Kulturelle Faktoren der Vererbung: Interdisziplinärer Sammelband zur Epigenetik*. Eds. V. Lux and J. T. Richter. Berlin: de Gruyter.

Griffiths, Paul E., and Karola Stotz. 2013. 'Conceptual Barriers to Interdisciplinary Communication: When does ambiguity matter?' In *Enhancing Interdisciplinary Communication*, edited by Michael O'Rourke, Stephen J. Crowley, Sanford D. Eigenbrode and J. D. Wulfhorst. Thousand Oaks, CA: Sage Publications.

Stotz, K. 2012. "Murder on the Development Express: Who killed nature/nurture? *Biology & Philosophy* 27 (9):919-929.

**Articles in
refereed
journals/
Book
Chapters**

- Stotz, K. and C. Allen. 2012. 'From cell-surface receptors to higher learning: a whole world of experience'. In: *Philosophy of Behavioral Biology*, eds, Katie Plaisance and Thomas Reydon. Boston: Springer, 85-123.
- Linquist, S., E. Machery, P. E. Griffiths, and K. Stotz. 2011. 'Exploring the Folkbiological Conception of Human Nature'. *Philosophical Transactions of the Royal Society B* 366 (Evolution and human behavioural diversity):444-453
- O'Malley, M. and K. Stotz. 2011. 'Intervention, integration and translation in obesity research: genetic, developmental and metaorganismal approaches. *Philosophy, Ethics, and Humanities in Medicine* 2011 (Accepted Dec 2010). 6 (2):doi:10.1186/1747-5341-6-2
- Stotz, K. 2010. 'Human Nature and Cognitive-Developmental Niche construction. *Phenomenology and the Cognitive Sciences* 9 (4):483-501.
- Stotz, K. 2009. 'Experimental Philosophy of Biology: Notes from the field'. *Studies in History and Philosophy of Science A* 40 (2): 233-237
- Stotz, K. (2009) 'Introduction to "Philosophy in the Trenches"'. *Studies in History and Philosophy of Science A* 40 (2): 225-226
- Griffiths, P. E., and K. Stotz, 2008, 'Experimental Philosophy of Science', *Philosophy Compass*, 3 (3):507-721
- Stotz, K. 2008. 'The ingredients for a postgenomic synthesis of nature and nurture'. *Philosophical Psychology* 21 (3, Special Issue): 359-381.
- Stotz, K. & P. Griffiths. 2008. 'Biohumanities: rethinking the relationship between the biosciences, philosophy and history of science, and society'. *Quarterly Review of Biology* 83 (1).
- Griffiths, E.P., K. Stotz, and A. Bostanci. 2007. '101 things to do with your genome'. *Genomics Network: Newsletter of the ESRC Genomics Network* 6: xx-xx
- Griffiths, P.E. and K. Stotz. 2007. 'Gene'. In: *Cambridge Companion to the Philosophy of Biology*, eds. David Hull and Michael Ruse. Cambridge: Cambridge University Press.
- Stotz, K. 2006. 'Molecular epigenesis: distributed specificity as a break in the Central Dogma'. *History and Philosophy of the Life Sciences* 26 (3-4): 527-544.
- Stotz, K. 2006. 'With genes like this, who needs an environment? Postgenomics' argument for the "Ontogeny of Information"'. *Philosophy of Science* 73 (5): 905-917.
- Griffiths, P. E. and K. Stotz. 2006. 'Genes in the Postgenomic Era'. *Theoretical Medicine and Bioethics* 27 (6): 499-521.
- Stotz, K., A. Bostanci and P.E. Griffiths. 2006. 'Tracking the shift to post-genomics'. *Community Genetics* 9 (3): 190-196.
- Stotz, K. 2005. Organismen als Entwicklungssysteme. In: U. Krohs and G. Toepfer, eds., *Philosophie der Biologie. Eine Einführung*. Frankfurt/Main, Suhrkamp, 125-143
- Stotz, K. 2005. Positionen der evolutionären Entwicklungsbiologie. In: U. Krohs and G. Toepfer, eds., *Philosophie der Biologie. Eine Einführung*. Frankfurt, Suhrkamp, 338-356.
- Stotz, K. and P.E. Griffiths. 2004. Genes: Philosophical analyses put to the test. *History and Philosophy of the Life Sciences* 26 (1, Special issue on 'Genes, Genomes and Genetic Elements', ed. by K. Stotz), 5-28. <http://representinggenes.org>
- Stotz, K. and P.E. Griffiths. 2004. 'What is a Gene'. *Genomics Network: Newsletter of the ESRC Genomics Network* 1(1): 6-7.
- Stotz, K., P.E. Griffiths, and R.D. Knight. 2004. 'How scientists conceptualize genes: An empirical study'. *Studies in History and Philosophy of Biological and Biomedical Sciences*, 35 (4), 647-673.
- Stotz, K. and P. E. Griffiths. 2002. 'Dancing in the Dark: Evolutionary Psychology and the Argument from Design'. In: F. Rauscher and S. Scher, eds., *Evolutionary Psychology: Alternative Approaches*. Dordrecht: Kluwer, 135-160
- Griffiths, P. E. and K. Stotz. 2000. 'How the mind grows: A developmental perspective on the biology of cognition'. *Synthese* 122 (1-2): 29-51.
- Callebaut, W. and K. Stotz. 1998. 'Lean Evolutionary Epistemology'. *Evo & Cog* 4 (2): 11-36.
- Stotz, K. 1996. The Psychology of Knowledge in the Context of Evolutionary Theory: Reflections on the Link between Cognition and Sociability. *Evo & Cog* 2 (1): 22-37.
- Callebaut, W. and K. Stotz. 1997. 'The place of function in a world of mechanisms'. Review article of Peter Godfrey-Smith "Complexity and the Place of Cognition in Nature". *Metascience* 12: 20-31.

Stotz, K. 1996. 'Wechselbezüge zwischen EE und Ethnologie'. In R. Riedl M. Delpo, *Die Evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften*, 110–127.

Review Articles and Reviews

- Stotz, K. 2013. Review of James A. Shapiro, "Evolution: A View from the 21st century. FT Press. *Metascience*
- Stotz, K. 2011. 'Creatures of the World'. Review of Richard Menary (ed.) "The Extended Mind". Cambridge, MA, MIT Press, 2010. *Metascience* DOI 10.1007/s11016-011-9539-z
- Stotz, K. 2008 (Published 2009). Review of Michael Lynch "The Origin of Genome Architecture". *History and Philosophy of the Life Sciences* 30 (3-4): 484-486.
- Stotz, K. 2008. Review of Alex Rosenberg "Darwinian Reductionism", University of Chicago Press 2006. *Metascience* 17 (1): 10-14.
- Stotz, K. 2005. Review of Sahotra Sarkar, "Molecular Models of Life: Philosophical Papers on Molecular Biology". MIT Press 2005", *Philosophy in Review* 25 (6):443-445.
- Stotz, K. 2004. Review of Gordon Graham, "Genes: A philosophical Inquiry". *ISIS* 95:172-3
- Stotz, K. 2004. Review of Lenny Moss "What genes can't do", 2002. *Metascience* 12(3):414-7
- Callebaut, W. and K. Stotz. 1998. Review of Jane Azevedo "Mapping Reality", 1997. *American Journal of Sociology* **103**: 1768–1770

Organized Workshops

- "Postgenomic Perspectives on Human Diversity", coorganized with P. Griffiths and A. Hochman, Sydney, Sept 2012
- "Integration in Biology and Biomedicine", coorganized with Paul Griffiths and Maureen O'Malley. Sydney, May 3-4, 2012
- "Postgenomic Perspectives on Human Nature I: Innateness", Exeter, Oct 31-Nov 1, 2008
- "Reconciling Nature and Nurture in the Study of Behavior", Symposium (Funded by the New Frontiers Arts and Humanities Program), 23-25 March, 2007, Indiana University)
- "Representing Genes III", third workshop of the NSF funded Representing Genes Project, University of Exeter, May 13 – 15, 2005 (co-organized with Paul Griffiths)
- "Representing Genes II", second workshop of the NSF funded Representing Genes Project, Pittsburgh, Feb 20 – 22, 2004 (co-organized with Paul Griffiths)
- "Representing Genes I: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology". Pittsburgh, Jan 17–19, 2003 (with Paul Griffiths): <http://www.representinggenes.org>
- "Evolutionary Naturalism and the Challenge of Development and Sociality", Konrad Lorenz Institute Vienna, July 1997. (Co-organized with Werner Callebaut).
- "Causes of Growth I and II", Symposia of the Altenberg Contribution to the Vienna Future Conference, September 1993 and May 1995 (co-organized with Dr. Rupert Riedl).

Conference Sessions

- Interdisciplinary Session: Historical, Philosophical, Sociological, Scientific and Medical perspectives on Parental Effects I and II. ISHPSSB 2013, Montpellier, July 7-11.
- "Biology and the Extended Mind". ISHPSSB 2011, Salt Lake City, July 10-14
- "What Use is Human Nature?" (With Paul Griffiths) ISHPSSB 2011, Salt Lake City, July 10-14
- "Rediscovering Human Nature", PSA 2010, Montreal Nov 4-9
- "Nurture goes Molecular: Epigenetic mechanisms and their implication for the innate/acquired distinction". ISHPSSB 2009, Brisbane, July 11-16
- "Finding a way to really talk about cognition across phyla" (with Pamela Lyons and Jon Opie). ISHPSSB 2009, Brisbane, July 11-16.
- "New Perspectives on Reductionism I and II" (Panel), ISHPSSB 2007, Exeter July 25-29.
- "Plastic Minds: Developmental approaches to animal cognition". ISHPSSB 2007, Exeter.
- "Philosophy in the Trenches: From naturalized to experimental philosophy (of science)". PSA 2006, Nov 2-5, 2006, Vancouver, Canada.
- "Son of ELSI: New interactions between bioscience and the humanities and social sciences". Biannual Meeting of ISHPSSB, July 13- 17, 2005, Guelph, CA.

"Conceptual Implications of Recent Advances in Genomics". Symposium, PSA Nov 18-21, 2004, Austin, Texas
 "Conceptual Issues of Molecular Genetics". ISHPSSB 2003, Vienna, Austria, July
 "Interactive Constructionism". ISHPSSB 1999, Oaxaca, Mexico, July
 "Evolutionary Naturalism". International Society for the History, Philosophy and Social Studies of Biology (ISHPSSB) 1997, Seattle, WA, US. July

Professional Association

Australasian Association for the History; Philosophy and Social Studies of Science; Australasian Association for Philosophy; Austrian Society of Cognitive Science (ASOCS); International Society of Artificial Life; International Society of the History, Philosophy and Social Studies of Biology (ISHPSSB); Konrad Lorenz Institute for Evolution and Cognition Research (KLI); Philosophy of Science Association (PSA); Society for Philosophy and Psychology (SPP); Associations of the Advancement of Science;

Refereed Journals

Evolution and Cognition; Biological Theory; International Studies in the Philosophy of Science; Studies in History and Philosophy of Science C; Philosophy of Science; Philosophical Psychology; Biology & Philosophy; Acta Biotheoretica; Artificial Life; History and Philosophy of the Life Sciences; British Journal for Philosophy of Science; European Journal for the Philosophy of Science; Metascience; The Journal of Sex Research; PLoS One; Current Anthropology; Biosemiotics; Theoretical Biology, History and Philosophy of the Life Sciences

Book and research proposal examinations for: Cambridge University Press; National Science Foundation; Israel Science Foundation; Konrad Lorenz Institute

2012

"The Causal Foundation of Biological Information". Sydney-ANU (SANU) Phil of Bio meeting, Nov 5-7.

**"From Cell-Surface Receptors to Learning: beyond the innate and the acquired". 'Mechanism of Cognition Workshop', Genes to Geoscience Centre, Macquarie University, Oct 23.

"What progress occurred when genes went molecular?" 'HPS in Australia', Sydney Sept 26-28.

**"Human Nature and Developmental Plasticity". 'Human Nature and Diversity' Workshop, Sydney 5-7.

"A nonreductive integration from physics to biology". AAP conference, Wollongong, July 1-6

**"Nonreductive integration: Commentary". 'Integration in Biology and Biomedicine' workshop, Sydney, May 3-5.

**"Biology and the Extended Mind". Workshop 'Emergence in Cognitive Science', Wollongong April 12-13.

**"Nature, Human Nature, and Nurture". Workshop 'Concepts in Use', Bielefeld, April 5

**"From Ecological to Development Niche Construction". 'Cultural factors of Inheritance II: Forms', Centre for Literature and Cultural Research, Berlin, Mar 13-14.

2011

"From Developmental Systems to Extended Minds". Extended Mind session, ISHPSSB 2011, U of Utah, June 10-14

"What are the implications of a human nature based on developmental plasticity for human health and disease?" Human Nature Session, ISHPSSB, U of Utah, June 10-14

**"Cognitive- Developmental Niche Construction as an Argument against Innate Human Nature". 'Human Nature and Agent tracking' workshop, Macquarie 17-21 June

**"From cell-surface receptors to higher learning: A whole world of experience. " Ethology Workshop, U of Macquarie 19-21 Feb, 2011

2010

**"Putting Reductionism in its place", Mechanism workshop, U of Macquarie, Dec 16-17

"Cognitive-Developmental Niche Construction and Human Nature", PSA Montreal, Nov 4-6

**"Environmental Epigenomics of Health and Disease", Egenis seminar, Exeter, Oct 25

"From Developmental Plasticity to Learning", 3rd Sydney-ANU Meeting Sept 17

"Nurture goes Molecular: Environmental Epigenomics", AAHPSSS July 9-11, U of Sydney

"Human Nature and Coognitive-Developmental Niche Construction". AAP Julv 4-9. UNSW

Lectures

2012

(invited w/ *)

2009**2009**

- *"Cognitive Niche Construction: from Extended organisms to extended minds". Workshop 'Embodied cognition, enactivism, and extended mind', U of Wollongong Dec 10-11
- *"The biological foundation of cognition". Workshop 'Biological Cognition' and Discussion panel, July 17-19, Adelaide
- "Epigenetics, Parental Effects, and Ontogenetic Niche Construction: A Philosophical Analysis of Extended Inheritance". ISHPSSB 2009, University of Sydney, Brisbane July 12-16.
- *"Xphi of Science". NEH Summer Institute on Experimental Philosophy (Xphi), June 28-30.

2008**2008**

- *"The Nurturing of Human Nature". Workshop "Man and her Genes", Oslo, Nov 20-23.
- *"A philosophical analysis of extended inheritance". Egenis Seminar Series, Nov 17
- "The Nurture of Human Nature", Panel discussion "Postgenomic Perspectives on Human Nature". Exeter, Oct 31
- *"Behavior epigenetics: Epigenetics, Parental Effects, Ontogenetic Niche Construction and Behavior". Workshop "Future Direction in Genetic Studies", WashU St Louis, Aug 10
- *"Tanz der Gene: Evolutionstheorie in der Krise?" Studium Generale 'Mensch, Genom, Evolution' at the University of Luebeck, April 24.
- *"From Apes to Humans: the Naturing of Human Nature". Workshop on Human Nature, Egenis, Exeter April 21
- "How (not) to be a Reductionist in a Complex Universe". First Sydney-Tilburg conference 'Reductionism in the Special Sciences', Tilburg, NL April 10-12.
- "Molecular Epigenesis: A postgenomic argument against Waters' thesis of Causal Specificity". University of Sydney, Mar 4

2007**2007**

- *"Ontogenetic Niche Construction: From the genetic niche to developmental systems". 'Dynamical Approaches to Development' Workshop, ECAL 2007, Lisbon, Sep 9-15.
- "The Construction of the Developmental Niche: a means for phenotypic plasticity". ISHPSSB 2007, University of Exeter July 25-29, 2007.
- "From Cell-surface receptors to higher learning: a whole world of experience" (with Colin Allen). SPP 2007, New York/Toronto, CA, June 14-17.
- *"From Molecular Epigenesis to Developmental Niche Construction". Philosophical Colloquium, UCSC, May 10.
- *"Developmental Niche Construction as an Evolutionary Factor". Workshop "Making Sense of Evolution- author meets critics", Oregon State University, April 7.
- *"From Nature and Nurture to Nurturing Nature". Keynote address, Symposium "Reconciling Nature and Nurture in the Study of Behavior", IU Mar 20-22. (<http://nanu.dynalias.org>)
- *"Molecular epigenesis as an argument for developmental niche construction". Developmental seminar, Indiana University, March 2.
- *"Experimental philosophy of biology: a meeting point between philosophy and science?" 'Does Philosophy matter to Science?' A Stony Brook symposium, Mar 9.
- *"Distributed specificity as a break in the Central Dogma". 'Central Dogma', Colloquium, University of Geneva, Faculty of Medicine, Feb 22-23.

2006**2006**

- *"From Genetics to Postgenomics: a case against reductionism". 3. Biohumanities Conference "Idealization, Mechanism and Reduction", Brisbane, Dec 17-19, 2006
- "2001 and all that: A tale of a third science". 7th Philosophy of Developmental Biology workshop (PhilDevo) 2006, Nov 6-7, Vancouver
- "How to test conceptual change in science: notes from the field". PSA 2006 20th biannual meeting, Nov 2-5, 2006, Vancouver.
- "Genes in the Postgenomic Era" (with Paul Griffiths). AAHPSSS, July 2-7 ANU Canberra.
- "Ontogenetic Niche Construction: From the Genetic Niche to Developmental Systems". AAP, July 2-7 Australian National University.
- *"Niche Construction", Graduate workshop 'Future directions in the Life Sciences', IU June 2

“Ontogenetic Niche Construction: From Developmental Systems to Extend Minds”. Alife X conference, Indiana University Bloomington, June 3-7, 2006.

2005**2005**

- “Mental Representation and the Extended Mind: Some lessons from the genome”. CogSci lunchtime seminar series, Cognitive Science Program, IU Bloomington, April 20
- *“Intentionality: What we can learn from gene expression”. Workshop: ‘The Concept of Function in Biology and Language’, Università degli Studi di Catania, May
- *“What is a Gene?” (with Paul Griffiths). Keynote address, Biohumanities conference I: “The conceptual impact of the genomics revolution”, UQ, Oct 13-15.
- “Diverse conceptualizations of the gene and why they matter” (with Paul Griffiths). Keynote address of the ‘Representing Genes III’ workshop, May 13, University of Exeter.
- *“With Genes like that who needs an environment? Postgenomics’ argument for the ‘Ontogeny of Information’”. Center for Philosophy of Science, Pittsburgh, April 5th.
- “Representing Genes Project”. Human Genetics Lunchtime seminar series, Pittsburgh Medical School, Feb 18.
- *“Genes: Philosophical Analyses put to the test”. Institute for Molecular Bioscience, University of Queensland, Feb 3.

2004**2004**

- *“Molecular Epigenesis and the Extended Mind: lessons from genomics”. ‘Memory and embodied cognition’ workshop, Nov 29-30, 2004, Macquarie University, Sydney
- “With genes like that who needs an environment? Genomics’ argument against genetic determinism.” PSA 2004 conference, Austin, TX Nov 18-22.
- *Commentary. Genomics and psychiatry workshop, Mc Gill University, May 13 – 15.
- *“The concept of the gene and the nature of cognition”, Indiana University, May 3rd
- *“Representing Genes”. (with Paul Griffiths), SUNY in Binghamton, PA, March 4 -5.
- “Representing Genes II”. Keynote address, ‘Representing Genes: Testing Competing Analyses of the Gene Concept in Contemporary Molecular Biology II’, Feb 20.

2003

- (2003) “Three Misunderstandings of Developmental Systems Theory”. Philosophy of Developmental Biology meeting, Boston, Nov 2003
- *(2003) “Tracking the Shift from Genetics to Genomics”. Conference “The Meaning of Genomics”, EGENIS, University of Exeter, Nov. 20 -22, 2003.
- (2003) “Representing Genes: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology”. Biannual Meeting of the ISHPSSB, Vienna 2003
- *(2003) “Representing Genes: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology”. Conference “Genes and Information in Development and Evolution”, Kulturwissenschaftliches Institut, Essen, July 14-15
- *(2003) “Testing Competing Philosophical Analyses of the Gene Concept in Molecular Biology”. Philosophy Department, Université de Québec à Montréal, April 2003.

2002

- *(2002) “Bringing life to mind: Bodily experience, situated activity and environmental embeddedness of cognition”. Department of Philosophy, University of Cincinnati, April 2002

2001

- (2001) “Bringing Life back to Mind”, Pitt-London Conference on Philosophy of Biology and Neural Science, September 11, London 2001.
- *(2001) “How Scientist conceptualize Genes: An empirical Study”. Notre Dame University, March.

2000

- (2000) “From Evolutionary Psychology to Evolutionary Developmental Psychology”. NZAAP, Wellington, December.
- (2000) “Dancing in the Dark: Evolutionary Psychology and the Argument from Design”. Department of Anthropology, University of Pittsburgh, November.
- (2000) “Interaction and Construction: The Processes of Evolution and Cognition”. Center for Philosophy of Science, University of Pittsburgh, September.

- (2000) 'How "How Scientist conceptualise Genes: an empirical study" (with Dr. Griffiths). AAP, Brisbane July.
- (2000) "How Scientist conceptualise Genes: an empirical study" (with Dr. Griffiths) AAHPSSS, Sydney June.
- 1999** (1999) "Bringing Life to Mind: A new evolutionary naturalism". School of Philosophy, University of Sydney, August.
- (1999) "An interactive-constructivist account of life and mind". The Biannual Meeting of the ISHPSSB, Mexico, July.
- 1998** *(1998) "The Contribution of Studies in Complexity for a Naturalistic Theory of Evolution and Cognition". At: "How Scientists deal with Complexity", Workshop Sydney Uni June.
- *(1998) "Humans act in contexts, not in their heads". Konrad Lorenz Institute, Mai.
- (1998) "Evolution and Complexity". Department of philosophy, University Ghent, April.
- *(1998) "Organizational Constraints on Evolution and Cognition". Konrad Lorenz Institute, March.
- *(1998) "There Is More To Human Nature Than Evolution". University of Newcastle, Newcastle, NSW, Australia, March.
- (1997) "Evolutionary Naturalism and the Challenge of Development and Sociality: Results form the Workshop" (with W. Callebaut). Biannual Meeting of the ISHPSSB, Seattle, July.
- 1997** *(1997) "Evolutionary Naturalism and the Challenge of Development and Sociality" (With W. Callebaut). Keynote Address, 2nd Altenberg Workshop on Theoretical Biology, KLI, June.
- (1997) "The Descent of Knowledge". University of Ghent, Belgium, April.
- *(1997) "Naturalism Socialized: Beyond Reductionism and Scientism" (With Prof. W. Callebaut). University of La Laguna, Tenerife, April.
- (1997) "Evolutionary Epistemology in German and English Tradition. A Comparison with special Focus on Ontogeny und Sociality" (With Prof. W. Callebaut). Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria, April.
- *(1996) "Cultural Psychology and Genetic Epistemology". 2nd Conference for Socio-Cultural Research, Vygotsky - Piaget, Munich, Germany.
- *(1996) "Knowledge or Wisdom? Critical remarks to Piaget's Rationalism". At: "The Growing Mind: Multidisciplinary approaches" - International congress to celebrate the centennial of Jean Piaget's birth, University of Geneva, Archives Jean Piaget.
- 1996** (1996) "Die Entwicklung der Sprachkompetenz beim Menschen: Überlegungen zum Zusammenhang von Sprache und Denken". University Vienna, October.
- (1996) "Der Mensch und seine Umwelt: Implikationen zum Problembereich der Humanökologie". Institute of Human Economy, Department of Landscape Architecture und Human Ecology, Technische Universität Berlin, April.
- (1995) "Systemtheoretische Betrachtungen der kognitiven und sozialen Entwicklung". Biozentrum, University Vienna, October.
- (1995) "Die soziale Dimension der kognitiven Entwicklung unter kritisch-kulturvergleichender Perspektive". Hamburger Institut für Sozialforschung, Reemtsa-Stiftung, May.
- (1995) "Kultur und Moral: Ausflüge in die soziale Evolution der praktischen Vernunft". Report for the AGEMUS-Seminarprojekt "Kulturation" des Naturhistorischen Museums Vienna, March.
- 1995** (1994) "Beiträge zur Phylo-, Onto-, Sozio- und Historiogenese von Wissen und Handlungskompetenz"; 2. Symposium of the "Ursachen des Wachstums", KLI.
- 1994** (1994) "Lernen in der Sozietät", University Vienna.
- (1994) "Wertewandel, Umweltbewußtsein und Konsumverhalten"; 1. Symposium of the "Ursachen des Wachstums", KLI Altenberg.
- (1993) "Ethnological Contributions to Evolutionary Epistemology. 2. International Symposium of Evolutionary Epistemology ("Die Evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften"), Biozentrum Vienna, April 1993.
- (1991) "Die Relevanz der Evolutionären Erkenntnistheorie für die Ethnologie". Konrad Lorenz Institute for Evolution and Cognition Research.

Grants**Grants**

- 2014-16. "Causal foundations of biological information"; P. Griffiths, K. Stotz K, B. Calcott; Templeton World Charity Foundation
2013. "Developmental Niche Construction"; DVC Research/Bridging Support Fellowship.
- 2008-2012 ARC Discovery Project + ARF DP0878650 'Postgenomic perspectives on Human Nature' (with Paul Griffiths) AU\$641,000
2007. PI, New Frontiers in the Arts and Humanities Program: New Perspective Grant. Reconciling Nature and Nurture in the Study of Behavior' (Co-PI Colin Allen) US\$20,000
2005. PI, REU supplement to NSF award # 0323496, NSF award #6462046, US\$4,150
- 2003-2005, Co-PI, later PI, National Science Foundation, Science and Technology Studies and Societal Dimensions of Engineering, Science, and Technology programs, "Conceptual Issues in the Dissemination and Reception of Genomics" (PI: Paul Griffiths), NSF award #0323496, US\$107,000
- 2003-2004. CO-PI, "Representing Genes" by University Center for International Studies (UCIS) Global Academic Partnership Award (PI: Paul Griffiths), Pittsburgh (\$20,000).
- 2002-2004, Co-PI, National Science Foundation, Science and Technology Studies Program, (\$110,000) "Representing Genes: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology" (PI: Paul Griffiths), NSF award # 0217567
2001. Research Associate, Steven D. Manners Research Development Grant, University Center for Social and Urban Research Pittsburgh (PI: Paul Griffiths), "Testing competing analyses of the gene concept in contemporary molecular biology", US\$7,000.
- 1999-2000 Research Associate, Australian Research Council Large Research Grant (Principal Investigator: Paul Griffiths), "Representing the role of genes in development: improved conceptual tools for interpreting the significance of biological findings". AUD91,000

Teaching**Teaching, Student supervision, Referees**

- Center for Biology, University of Vienna (in German), (team teaching)
- SS 1994. "Evolution of Cognitive Processes" (team teaching)
- WS 1994/95. "Systems Theory of Evolution" (team teaching)
- SS 1995. "Communication and Cognition" (team teaching)
- SS 1996. "The Origin of Constraints and Complexity" (team teaching)
- Institute for History, Philosophy and Sociology of Science, University of Vienna
- WS 1994/95. "Cognition and Communication" (team teaching)
- SS 1995. "Cross-Cultural Research on Cognition" (team teaching)
- WS 1995/96. "Language and Cognition I" (team teaching)
- SS 1996. "Language and Cognition II" (team Teaching)
- Unit for History and Philosophy of Science, University of Sydney
- S2 1999. "Scientific Controversies: Biologising Psychology" (guest lecturer)
- S1 2000. "Advanced Philosophy of Science" (guest lecturer)
- The School of Science & Technology Studies (now HPS), University NSW
- S1 1999. "Philosophy of Biology" (guest lecturer for Nicolas Rasmussen)
- Cognitive Science Program, Indiana University Bloomington
- WS 2006. CogSci Q240 "Philosophical Foundations in Cognitive Science" (Intensive Writing undergraduate seminar in Cognitive Science)
- WS 2006. CogSci Q700/Philosophy P540 "The Nature-Nurture Debate in Behavior and Cognition Research" (graduate seminar)
- SS 2007. HPSC 755 "Functions and Mechanisms in the Life Sciences" (graduate seminar, co-teacher to Colin Allen)
- WS 2007. CogSci Q240 "Foundations in Cognitive Science" (Intensive Writing undergraduate seminar in Cognitive Science and HPS)
- Philosophy Department, University of Sydney
- Advanced Philosophy of Science, graduate seminar 2009, 2010, 2011 (Co-teaching)
- Philosophy of Genetics, honours seminar 2011 (with Paul Griffiths)
- Philosophy of Genetics, honours seminar 2012 (with Paul Griffiths)
- Philosophy of Psychiatry PHIL 2627, undergraduate seminar, S1 2013
- Philosophy of Cognitive Science, honours seminar, S2, 2013

**Thesis
examination**

Alexandra Curran, graduate thesis, School of Science & Technology Studies, University of NSW, September 1999
 Paul Remati, graduate thesis, Unit for History and Philosophy of Science, University of Sydney, March 2000
 Heather Logue, graduate thesis, Department of Philosophy, University of Pittsburgh, August 2003
 Margeret Heath, Konrad Lorenz Institute Junior fellowship application 2006
 Adam Hochman, Co-supervisor, Honours thesis, Department of Philosophy, University of Sydney, 2009
 John Zerilli, Masters Thesis, Department of Philosophy, University of Sydney, 2010
 Sue Holey, Co-supervisor, HPS, Graduate Thesis, 2010

**Post-
Graduate
study groups**

SYDGONG: University of Sydney and Wollongong Philosophy of Mind Reading Group
 BIO-LAB: Biohumanities Laboratory and Journal club, University of Sydney
 COG-X: Reading and discussion group for graduates students (and interested faculty) in new topics in cognitive science (Indiana University)
 ROBOT-X: Reading and discussion group for graduate students in topics related to robotics
 SPACKLED: Studygroup for the Philosophy/Psychology of Cognition, Knowledge, Learning, Evolution and Development (Indiana University)

Referees

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