

# Curriculum Vitae

Don Peterson

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## Summary

Focus. Life in the Cognitive Era.

Background. Philosophy, Computer Science, Psychology, Logic, Cognitive Science.

## Details

- full name: Donald Macandrew Peterson
- email: dmp@tubecomputer.com
- date of birth: 23.06.1956 (Dumfries, Scotland)
- nationality: UK (passport 504728940)
- phone: 0044 131 447 3074
- postal address: 87, Craiglea Drive, Edinburgh, EH10 5PQ, UK.
- marital status: divorced
- languages: English, German; some Portuguese, Chinese, French
- international work: Germany (2 years), Brazil (6 months), China (8 years)
- hobbies: music, cooking

## Education

- Imperial College London. MSc in Foundations of Advanced Information Technology, 1986. Student representative.
- University College London. PhD in Philosophy, 1986. Secretary to the University of London's Intercollegiate Philosophy Seminar. Additional subjects: B400 and B401 in Computer Science at UCL, Chinese Philosophy at SOAS under A.C. Graham.
- University of Edinburgh. MA in Philosophy and Psychology, 1978. Student representative. Additional subject: Social Anthropology.

## Posts

- Shantou University. Department of Computer Science. Full Professor of Computer Science. 2012-2018
- University of Nottingham Ningbō China. Division of Computer Science. Associate Professor of Computer Science. Head of Division. Director of the Learning Science Research Centre. 2006-12
- University of London. Institute of Education and the London Knowledge Lab. Senior Lecturer in Information and Communication Technology. Research Seminar organiser.

2002-6

- University of Birmingham. School of Education. Lecturer in the Psychology of E-learning. 2001-2
- University of Birmingham. School of Computer Science. Lecturer in Cognitive Science. Leader of the multidisciplinary Cognitive Science Discussion Group. Member of the Philosophy Department Staff Discussion Group. 1989-2001
- European Computer-Industry Research Centre (ECRC). Munich. Parallel Architecture Group. Researcher. 1987-9
- University of London. School Examinations Board. Chief Examiner in Logic. 1984-90

## Administration

- University of Nottingham Ningbō China. Setup of the Division of Computer Science, and the Learning Science Research Centre, in the first Sino-Western collaborative university. Head of Division. Author of the Operational Calendar to organise the Division.
- University of London. Project management for our parts of one large project (iClass), and two medium sized projects. Member of the Core Team initiating the London Knowledge Lab.
- University of Birmingham. Deputy Head of the Cognitive Science Programme. Admissions Tutor for MSc in Computer Science. Admissions Tutor for MSc in Cognitive Science. Member of the Core Team initiating the Cognitive Science Programme.

## Other

- creator of the Usenet newsgroup sci.cognitive
- residential course --- Neural Nets, University of Oxford, 1992
- interviews --- radio interviews in Campinas and São Paulo, Brazil. Interview at Bristol University on YouTube, [press] here (or search "peterson knowledge lab").

## Teaching

### Courses

- Shantou University. Department of Computer Science: for BSc in Computer Science. Teaching in English for an international audience.
  - t17. Human Computer Interaction (Introduction to Cognitive Computing)
  - t16. International Skill (Cross-Cultural Communication)
  - t15. Next Generation Technologies (Cognitive Perspective, Mobile Computing course, 1,000 students)
- University of Nottingham Ningbō China. Division of Computer Science: for BSc in Computer Science. Teaching in English for an international audience.
  - t14. Skills for Communicating Information (Cross-Cultural Communication)
  - t13. Software Engineering (Cognitive Perspective)
- University of London. Institute of Education: for MA and PhD in Education
  - t12. Design and Use of Interactive Multimedia
  - t11. Issues in ICT in Education

- University of Oxford. European Studies Programme, Dartmouth College: for BA in Liberal Arts
  - t10. Hellenistic Philosophy
- University of Birmingham. School of Computer Science: for BSc in Computer Science, including all BSc/3 projects in electronic music, MSc and PhD in Cognitive Science, BA in Philosophy
  - t9. Computing in Society
  - t8. Unix and LaTeX
  - t7. Logic and Prolog
  - t6. Overview of Cognitive Science
  - t5. Neat and Scruffy Artificial Intelligence
  - t4. Prolog Programming
  - t3. The Computer and the Mind (Philosophy of Artificial Intelligence)
  - t2. The Philosophy of Cognitive Science
  - t1. Formal Languages and Automata

## Research

## Publications

### Books

- b3. Forms of Representation: an interdisciplinary theme for cognitive science. Peterson, D. M. (ed) (1996). Oxford, Intellect Books.
- b2. Philosophy and Cognitive Science. Hookway, C. J. and D. M. Peterson (eds) (1993). Cambridge, Cambridge University Press
- b1. Wittgenstein's Early Philosophy: Three Sides of the Mirror. Peterson, D. M. (1990). Hemel Hempstead, Harvester (and Toronto, University of Toronto Press).

### Articles (refereed journals)

- a10. 'Transduction and BRICS'. Peterson, D.M. (2015). Manuscrito, 38(3).
- a9. 'Trail Records and Navigational Learning'. Peterson, D. M. and M. Levene (2003). London Review of Education 1(3): 207-216.
- a8. 'Mobile Identity Management'. Roussos, G., D. M. Peterson and U. Patel. (2003). International Journal of E-commerce 8(1): 81-100.
- a7. 'Artificial Intelligence, Mindreading and Reasoning in Law'. Barnden, J. A. and D. M. Peterson (2002). Cardozo Law Review 22 (5-6): 1381-1406. (Reprinted in The Dynamics of Judicial Proof: Computation, Logic, and Common Sense (Studies in Fuzziness and Soft Computing). M. MacCrimmon and P. Tillers (eds) (2002), Springer Verlag: 21-42.)
- a6. 'The Mind's New Labels?'. Review of R.A. Wilson and F.C. Keil (eds): The MIT Encyclopedia of the Cognitive Sciences. Peterson, D. M. (2001). Artificial Intelligence 130: 213-216.

- a5. 'Editorial', Special Issue on Artificial Intelligence and Law. Peterson, D. M., J. A. Barnden and E. Nissan (eds) (2001). Information and Communications Technology Law, 10(1).
- a4. 'Counterfactual reasoning and false belief understanding in children with autism'. Peterson, D. M. and D. M. Bowler (2000). Autism: The International Journal of Research and Practice 4(4): 391-405.
- a3. 'Adaptive Modelling and Mindreading'. Peterson, D. M. and K. J. Riggs (1999). Mind and Language 14(1): 80-112.
- a2. 'Are errors in false belief tasks symptomatic of a broader difficulty with counterfactuality?'. Riggs, K. J., D. M. Peterson, E. J. Robinson and P. Mitchell (1998). Cognitive Development 13: 73-90.
- a1. 'Wittgenstein's *Grundgedanke* and the Independence Thesis'. Peterson, D. M. (1986). Philosophical Investigations 9(4): 315-319.

### **Chapters (conference proceedings and books)**

- c13. 'Context and the E-Condition'. Peterson, D. M. (2003). In Mobile Learning: Essays on Philosophy, Psychology and Education. K. Nyiri (ed). Vienna, Passagen Verlag: 117-125.
- c12. 'Mental Simulation, Dilogical Processing and the Syndrome of Autism'. Peterson D.M. (2002). Simulation and Knowledge of Action. Dokic, J. and J. Proust (eds). Amsterdam, John Benjamins Publishing Company: 185-193.
- c11. 'Creativity and the Varieties of Explication'. Peterson, D. M. (2002). Creativity, Cognition, and Knowledge. T. H. Dartnall (ed). London, Praeger: 139-151.
- c10. 'Counterfactual thinking in pre-school children: mental state and causal inferences'. Riggs, K. J. and D. M. Peterson (2000). Children's Reasoning and the Mind. P. Mitchell and K. J. Riggs (eds). Hove, Psychology Press: 87-99.
- c9. 'Subtractive Reasoning, Representationalism and False Belief Tasks'. Peterson, D. M. and K. J. Riggs (1999). Perspectives on Cognitive Science: Theories, Experiments and Foundations. J. Wiles and T. H. Dartnall (eds). Stamford, Ablex:117-129.
- c8. 'Representação, Inferência e Simulação em Tarefas Envolvendo Crenças Falsas'. Peterson, D. M. (1997). Encontro com as Ciências Cognitivas. Golzales, M. E. Q., C. A. Lungarzo, C. B. Milidoni, A. Pereira and M. B. Wrigley (eds). Marília, Universidade Estadual Paulista: 193-208.
- c7. 'Mudança de Frames em um Planeta Interconectado'. Peterson, D. M. (1996). Anais do Segundo Encontro Brasileiro-Internacional de Ciências Cognitivas. A. B. Soares (ed). Universidade Estadual do Norte Fluminense: 67-74.
- c6. 'Re-representation and Emergent Information in Three Cases of Problem Solving'. Peterson, D. M. (1994). Artificial Intelligence and Creativity. T. H. Dartnall (ed). Dordrecht, Kluwer: 81-92.
- c5. 'The Unity of Cognitive Science'. Peterson, D. M. (1993). Philosophy and the Cognitive Sciences: Papers of the Sixteenth International Wittgenstein Symposium. E. Leinfellner, R. Haller, W. Leinfellner and P. Weingartner (eds). Kirchberg am Wechsel, The Austrian Ludwig Wittgenstein Society: 409-412.
- c4. 'Cognitive Science'. Peterson, D. M. (1993). The Blackwell Dictionary of 20th Century Social Thought. W. Outhwaite and T. Bottomore (eds). Oxford, Blackwell: 85-6.
- c3. 'Logical Space and Truth Functionality'. Peterson, D. M. (1986). The Tasks of

- Contemporary Philosophy: Reports of the Tenth International Wittgenstein Symposium. A. Leinfelner and M. Wuketits (eds). Vienna, Hoelder-Pichler-Tempsky: 426-428.
- c2. 'Plurality, Perspective, and Cognition'. Peterson, D. M. (in press). Perspectives on Cognitive Science. M. Wrigley (ed), EdUNESP.
- c1. 'Conectividade, Cognição Perspectivista, e Saúde Mental'. Peterson, D. M. (in press). Anais do Segundo Seminário de Filosofia e Saúde. Florianópolis, Universidade Federal de Santa Catarina.

## Funding

University of Nottingham Ningbō China. Division of Computer Science

- f10. Lord Dearing Award: 'Project Connect', £10,000
- f9. University of Nottingham: Inter-Campus Research Fund, 'Project Connect', £13,500

University of London. Institute of Education, London Knowledge Lab

- f8. EU FP6: 'iClass', Integrated Project, principal investigator for partner, 644,000 euros, 2.5 research assistants
- f7. EU FP6: 'Philosophy of Technology-Enhanced Learning', principal investigator, 90,000 euros, 1 research assistant
- f6. EU FP6: 'Self E-Learning Networks' (SeLeNe), principal investigator for partner, 28,000 euros

University of Birmingham. School of Computer Science

- f5. ESRC: 'Counterfactual Reasoning in Young Children: When do Realist Errors Occur?', partner, rated 'outstanding', £62,500
- f4. University of Birmingham: Startup Grant, 'Pedagogical Usability in E-learning', WebAutism programme, principal investigator, £1,000
- f3. EPSRC: Travel Grant to visit Herb Simon (Carnegie Mellon) and Saul Amarel (Rutgers), £1,200
- f2. FAPESP: Travel Grants, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Brazilian-International Meetings on Cognitive Science
- f1. Griffith University: Travel Grant, 3<sup>rd</sup> Conference of the Australasian Cognitive Science Society

Note. Project Connect is a method which uses standard video technology to enhance international student experience. Starting 1 year before campus transition students at their home campus meet their future classmates at their destination campus, so that relations are already established on arrival. These are group meetings and involve shared activities (such as split-site games, joke telling, tea party, music, dancing, etc.) and student societies, rather than academic content.

## External Examining

University of Edinburgh. Institute of Informatics. External Examiner in Artificial Intelligence.

1999–2003.

### **Refereeing**

- [Autism: The International Journal of Research and Practice](#)
- [Artificial Intelligence and Simulation of Behaviour Quarterly](#)
- [Behavioral and Brain Sciences](#)
- [Cognition](#)
- [Interacting with Computers](#)
- [International Journal of E-Commerce](#)
- [Manuscripto](#)
- [Mind and Language](#)
- MIT Press
- Harvester Press
- Plenum Press
- Leverhulme Trust
- Australasian Cognitive Science Society

### **Conference Organising**

- [Society for the Study of Artificial Intelligence and the Simulation of Behaviour \(SSAISB\)](#). 'AI and Legal Reasoning', symposium, University of Birmingham, 2000
- [Society for the Study of Artificial Intelligence and the Simulation of Behaviour \(SSAISB\)](#). 'Prospects for Artificial Intelligence', conference, University of Birmingham, 1993
- [Royal Institute of Philosophy](#). 'Philosophy and the Cognitive Sciences', conference, University of Birmingham, 1992
- [British Society for the Philosophy of Science](#). 'Philosophy and Cognitive Science', conference, University of Birmingham, 1991.

### **Industrial Consultancy**

- [Usability Testing](#). Website of a London food ordering and delivery company.
- [Usability Testing](#). Website for autism support.
- [Logic and Design](#). British Navy, nuclear submarine design.
- [Business Software](#). A London classical record company.

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