

C V: Emmanuel M. Pothos

Date/Place of Birth: April 8th, 1973 / Athens; **Nationality:** British and Greek

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History

1986 – 1992: Athens College Greek-American High School.

1992 – June 1995: Physics BSc (First Class), Imperial College.

1994, summer: Research assistantship, Harvard University.

Sept. 1995 – Sept. 1998: Experimental Psychology DPhil, University of Oxford.

Sept. 1998 – Sept. 2000: Lecturer, School of Psychology, Bangor.

Sept. 2000 – Sept. 2003: Lecturer, Department of Psychology, University of Edinburgh.

2002: Twelve month army service requirement (compulsory for all Greek citizens).

Nov. 2003 – March 2005: Assistant Professor, Department of Psychology, University Crete.

July 2005—Sept. 2006: Lecturer, Department of Psychology, Swansea University.

Sept. 2006 – May 2012: Senior Lecturer, then Reader Department of Psychology, Swansea University.

June 2012 – Oct 2014: Senior Lecturer, Department of Psychology, City University London.

Oct 2014 – present: Professor, Department of Psychology, City University London.

Feb 2016 – present: Head of Department, Psychology, City University London.

Distinctions

1993: **Bursary offered by the Shell Company** to Imperial College Physics undergraduates for "outstanding academic achievement."

1994: **Stanley Raimes Memorial Prize**, offered by the Imperial College Mathematics department for "outstanding performance in first and second year mathematics."

1995: Medical Research Council Studentship.

1996: St Peter's College Oxford—Bodossaki Foundation Graduate Scholarship in Science.

1996: A. S. Onasis Scholarship for Postgraduate studies.

2012: I received a **Research Staff Prize from City University London**, for my work on modeling decision making with quantum theory. The prize scheme seeks to recognize and reward exceptional research-related achievement and carries a £1000 research support bursary.

Membership

Associate of the Behavioral and Brain Sciences Journal

Cognitive Science Society

PhD students

Darren J. Edwards completed in 2010. Title: Spontaneous and relative categorization.

Thomas D. W. Wilcockson completed in 2013. Title: Exploring substance abuse: Factors affecting attentional biases and automaticity.

Lee C. White completed in 2014. Title: The constructive influence of affect on judgment and decision making.

Albert Barque-Duran completed in 2016. Title: Dissertations on decision-making: similarity, constructive judgments, morality and social dilemmas.

Public engagement

March 2015: Participation in the Heroes of Neurons event, a public access event concerning brain/ mind related research and its value to society (funded by FENS).

March 2014: Yearsley & Pothos (2014) was covered in the phys.org website (<http://phys.org/news/2014-03-quantum-theory-cognition-memories.html>). The title of the

article was “In quantum theory of cognition, memories are created by the act of remembering” and the author Lisa Zyga.

January 2014: Interview with George Kenney, appearing as a podcast on the Electric Politics website.

November 2012: Scientific American covered some of my work with quantum cognitive models. The title of the article was “Humans Think Like Quantum Particles”.

August 23rd 2009: Radio Wales Science Café interview, relating to the modeling of human behavior in prisoner’s dilemma tasks with quantum probability.

Seminars and conference activity

Programme Chair:

Quantum Interaction conference (San Francisco, USA, June 2016).

Quantum Interaction conference 2015 (Filzbach, Switzerland, June 2015).

Member of the Organizing Committee:

Workshop on computational tools for developing and testing models of quantum cognition (Warwick University, UK, July 2017).

Conference on quantum probability and the mathematical modelling of decision making (Toronto, Canada, March 2015). (Keynote presentation.)

Member of the Programme Committee:

Quantum Interaction conference (Nice, France, September 2018).

Workshop on compositional approaches in physics, NLP, and the social sciences (Nice, France, September 2018).

Quantum interaction conference (Filzbach, Switzerland, June 2014).

Quantum interaction conference (Paris, June 2012).

Organizer, half day tutorial on quantum probability methods in cognitive modeling. Annual meeting of the cognitive science society (Berlin, Germany, July 2013).

Organizer, symposium on the potential of quantum probability for modeling quantum processes. Annual meeting of the cognitive science society (Boston, USA, July 2011). This was the first symposium on quantum cognitive models in the cognitive science conference.

Invited seminars:

Nottingham Trent University (UK), November 2016.

University of Nice Sophia Antipolis (France), January 2016.

Exeter University (UK), January 2016.

Reading University (UK), February 2014.

Indiana University (USA), January 2014.

Leicester University (UK), December 2013.

Sussex University (UK), February 2013.

UCL (UK), October 2012.

Warwick University (UK), November 2012.

Osnabruck University (Germany), June 2012.

IGPP (Germany), January 2012.

Keynote addresses:

Leicester University (UK), Meeting of the International Quantum Structures Association, July 2016.

Purdue University (USA), Purdue Winer Memorial Guest, October 2014.

Dayalbagh Educational Institute (India), November 2013.

Refereeing

Acta Psychologica; Appetite; Behavioral Pharmacology; Child Development; **Cognition; Cognitive Psychology; Cognitive Science**; International Journal of Theoretical Physics; **Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Experimental Psychology: Human Perception and Performance; Journal of Memory and Language**; Memory & Cognition; Mind & Society; **NSF**; Perception & Psychophysics, **PNAS, Psychopharmacology; Psychological Review; Psychological Science; Physics Letters A**; The American Journal of Psychology; The Annual Conference of the Cognitive Science Society; The British Journal of Psychology; The Economic and Social Research Council research grants scheme; The European Journal of Cognitive Psychology; The Psychonomic Bulletin & Review; The Quarterly Journal of Experimental Psychology

PhD examination. 2006, University of Warwick; 2007, University of Exeter; 2008, University of Western Australia; 2009, Birkbeck College; 2011, Leuven University; 2012, University of Western Australia; July 2014, University of Warwick; April 2017, University of Exeter; December 2017, UCL; January 2018, University of Sussex; March 2018, University of Adelaide.

Associate Editor (2010-2016): *Frontiers in Cognitive Science*

Research Funding (total: £973,700)

- 2016: E. M. Pothos, J. R. Busemeyer, & R. M. Shiffrin: 24 month Leverhulme Trust grant to study “A quantum approach to decision making in Bernoulli’s St. Petersburg’s paradox.” Value: **£111,895**.
- 2016: I. Basieva & E. M. Pothos: 24 month Horizon 2020 Marie Curie Fellowship to study “Quantum decision making.” Value: **£147,398**.
- 2013: E. M. Pothos: 36 month Air Force Office of Scientific Research, Air Force Material Command, USAF grant to study “The constructive role of decisions: implications from a quantum approach.” Value: **£144,023**.
- 2013: E. M. Pothos, J. R. Busemeyer, J. Trueblood, & J. A. Hampton: 24 month Leverhulme Trust grant to study “Quantum similarity: harnessing the flexibility of human similarity judgment.” Value: **£98,962**.
- 2009: K. Tapper & E. M. Pothos: 12 month Nuffield Foundation grant to study “Thinking about food: effects on food-related attentional bias.” Value: **£7,366**
- 2008: E. M. Pothos, K. Singh, & G. Perry: 5 month WICN grant to study “The time course of decision making: An MEG study.” Value: **£11,326**.
- 2008: W. M. Cox, J. S. Fadardi, D. Linden, & E. M. Pothos: 5 month WICN grant to study “Heavy and light drinkers’ brain reactions to alcohol, emotional, and concern-related stimuli.” Value: **£13,580**.
- 2007: K. Tapper, A. Lawrence & E. M. Pothos: 3 month WICN grant to study “Development and comparison of measures of food-related attentional bias.” Value: **£2,965**.
- 2006: E. M. Pothos: 24 month ESRC grant on “A simplicity model of concept difficulty” Value: **£90,457**.
- 2005: E. M. Pothos & K. Tapper: 24 month Welsh Assembly grant on “Does pre-occupation with body shape / food lead to overeating?” Value: **£67,169**.
- 2005: K. Tapper & E. M. Pothos: 9 month Nuffield Foundation grant on “Effects of two ideation strategies on children’s ability to delay gratification.” Value: **£7,187**.
- 2005: W. M. Cox, J. S. Fadardi, S. G. Hosier, & E. M. Pothos: 36 month ESRC grant to study “Effects of attentional and motivational training on reducing excessive drinking.” Value: **£249,942**.
- 2005: D. Mareschal et al.: 36 month STREP EU grant to study “From associations to rules in the development of concepts”. Five partner collaboration, total value: £880,535; share to E. M. Pothos, U. Hahn, & T. M. Bailey: **£94,825**.
- 2001: W. M. Cox & E. M. Pothos: 30 month ESRC grant to study “Determinants of alcohol abusers’ success in changing” Value: **£128,132**.
- 2001: E. M. Pothos: Six month Nuffield Foundation grant to study “Learning deficits associated with dyslexia” Value: **£5,110**.
- 2001: E. M. Pothos: Royal Society Equipment grant to study “Spontaneous grouping in humans” Value: **£5,714**.

1999: E. M. Pothos & U. Hahn: Grant from the University of Wales Academic Support Fund on “Do concepts have necessary features?” Value: **£11,073**.

1999: U. Hahn & E. M. Pothos: Four month Nuffield Foundation grant on “The role of similarity in rule application.” Value: **£5,235**.

1998: E. M. Pothos & N. Chater: Twelve month ESRC research grant to study “An information theory model of categorization.” Value: appr. **£38,000**.

Books

Atmanspacher, H., Filk, T., & Pothos, E. M. (Eds.) (2016). *Proceedings of the 2015 Quantum Interaction Conference*, Filzbach, Switzerland. Springer.

Pothos, E. M. & Wills, A. J. (Eds.; 2011). *Formal approaches in categorization*. Cambridge University Press.

This volume aims to be the definitive guide to formal categorization models. It includes contributions from some of the preeminent categorization researchers, such as Medin, Nosofsky, Ashby, Griffiths, Chater, Tenenbaum, Murphy, Kruschke, McClelland and many others.

Pothos, E. M. & Economou, E. (2010). *Topics in cognitive psychology*. Gutenberg. (in Greek)

This is an introductory textbook covering a range of core cognitive psychology topics. It is suitable for second or third year undergraduate psychology students.

Journal publications

Google Scholar citations: 4237; H-index: 31

1. Mistry, P. K., Pothos, E. M., Vandekerckhove, J., & Trueblood, J. S. (in press). A quantum probability account of individual differences in causal reasoning. ***Journal of Mathematical Psychology***.
2. Khrennikov, A., Basieva, I., Pothos, E. M., & Yamato, I. (in press). Quantum probability in decision making from quantum information representation of neuronal states. ***Scientific Reports***.
3. Wilcockson, T. D. W., Pothos, E. M., & Parrott, A. C. (in press). Substance usage intention does not affect attentional bias: implications from Ecstasy/MDMA users and alcohol drinkers. ***Addictive Behaviors***.
4. Asano, M., Basieva, I., Pothos, E. M., & Khrennikov, A. (in press). State entropy and differentiation phenomenon. ***Entropy***.
5. Khrennikov, A., Bagarello, F., Basieva, I., & Pothos, E. M. (in press). Quantum like modelling of decision making: quantifying uncertainty with the aid of the Heisenberg-Robertson inequality. ***Journal of Mathematical Psychology***.
6. Wojciechowski, B. W. & Pothos, E. M. (in press). Is there a conjunction fallacy in legal probabilistic making? ***Frontiers in Psychology***.
7. Basieva, I., Khrennikova, P., Pothos, E. M., Asano, M., & Khrennikov, A., (in press). Quantum-like model of subjective expected utility. ***Journal of Mathematical Economics***.
8. Lea, S. E. G., Pothos, E. M., Wills, A. J., Leaver, L. A., Ryan, C. M. E., & Meier, C. (2018). Multiple feature use in pigeons' category discrimination: The influence of stimulus set structure and the salience of stimulus differences. ***Journal of Experimental Psychology: Animal Learning and Cognition***, 44, 114-127.
9. Broekaert, J., Basieva, I., Blasiak, P., & Pothos, E. M. (2017). Quantum-like dynamics applied to cognition: A consideration of available options. ***Proceedings of the Royal Society A***, 375, 20160387.
10. Barque-Duran, A., Pothos, E. M., Hampton, J. A., & Yearsley, J. M. (2017). Contemporary morality: moral judgments in digital contexts. ***Computers in Human Behavior***, 75, 184-193.

11. Trueblood, J. S., Yearsley, J. M., & Pothos, E. M. (2017). A quantum probability framework for human probabilistic inference. ***Journal of Experimental Psychology: General***, 146, 1307-1341.

12. Yearsley, J. M., Barque-Duran, A., Scerrati, E., Hampton, J. A., & Pothos, E. M. (2017). The triangle inequality constraint in similarity judgments. *Progress in Biophysics and Molecular Biology*, 130, 26-32.

13. Pothos, E. M., Busemeyer, J. R., Shiffrin, R. M., & Yearsley, J. M. (2017). The rational status of quantum cognition. *Journal of Experimental Psychology: General*, 146, 968-987.

14. Hoffman, Y. S. G., Perlman, A., Orr-Urtreger, B., Tzelgov, J., Pothos, E. M., & Edwards, D. J. (2017). Unitization of route knowledge. *Psychological Research*, 81, 1241-1254.

15. Basieva, I., Pothos, E. M., Trueblood, J., Khrennikov, A., & Busemeyer, J. R. (2017). Quantum probability updating from zero priors (by-passing Cromwell's rule). *Journal of Mathematical Psychology*, 77, 58-69.

16. Perlman, A., Hoffman, Y., Tzelgov, Y., Pothos, E. M., & Edwards, D. J. (2016). The notion of contextual locking: inaccessibility to previously learnt items when appearing in a different context. *Quarterly Journal of Experimental Psychology*, 69, 410-431.

17. Yearsley, J. M. & Pothos, E. M. (2016). Zeno's paradox in decision making. *Proceedings of the Royal Society B*, 283, 20160291.

18. Wilcockson, T. D. W. & Pothos, E. M. (2016). How cognitive biases can distort environmental statistics: introducing the Rough Estimation Task. *Behavioral Pharmacology*, 27, 165-172.

19. Conway, M. A., Pothos, E. M., & Turk, D. J. (2016). The self-relevance system? *Cognitive Neuroscience*, 7, 20-21.

20. Wilcockson, T. D. W., Pothos, E. M., & Fawcett, A. (2016). Dyslexia and substance use in a university undergraduate population. *Substance Use and Misuse*, 51, 15-22.

21. White, L. C., Barque-Duran, A., & Pothos, E. M. (2015). An investigation of a quantum probability model for the constructive effect of affective evaluation. *Philosophical Transactions of the Royal Society A*, 374, 20150142.

22. Cox, W. M., Fadardi, J. S., Hosier, S. G., & Pothos, E. M. (2015). Differential effects and temporal course of attentional and motivational training on excessive drinking. *Experimental and Clinical Psychopharmacology*, 23, 445-454.

23. Barque-Duran, A., Pothos, E. M., Yearsley, J. M., & Hampton, J. A. (2015). Patterns and evolution of moral behavior: moral dynamics in everyday life. *Thinking & Reasoning*, 22, 31-56.

24. Pothos, E. M., Barque-Duran, A., Yearsley, J. M., Trueblood, J. S., Busemeyer, J. R., & Hampton, J. A. (2015). Progress and current challenges with the Quantum Similarity Model. *Frontiers in Psychology*, 6, 205.

25. Wilcockson, T. D. W. & Pothos, E. M. (2015). The automatic nature of habitual goal-state activation in substance use; implications from a dyslexic population. *Journal of Substance Use*, 21, 244-248.

26. Wilcockson, T. D. W. & Pothos, E. M. (2015). Measuring inhibitory processes for alcohol-related attentional biases: Introducing a novel attentional bias measure. *Addictive Behaviors*, 44, 88-93.

27. Pothos, E. M. & Trueblood, J. S. (2015). Structured representations in a quantum probability model of similarity. *Journal of Mathematical Psychology*, 64, 35-43.

28. White, L. C., Pothos, E. M., & Busemeyer, J. R. (2015). Insights from quantum cognitive models for organizational decision making. *Journal of Applied Research in Memory and Cognition*, 4, 229-238.

29. Busemeyer, J. R., Wang, J., Pothos, E. M., & Trueblood, J. S. (2015). The conjunction fallacy, confirmation, and quantum theory: comment on Tentori, Crupi, & Russo (2013). *Journal of Experimental Psychology: General*, 144, 236-243.

30. Ziori, E., Pothos, E. M., & Dienes, Z. (2014). Role of prior knowledge in implicit and explicit learning of artificial grammars. *Consciousness & Cognition*, 28, 1-16.

31. White, L. C., Pothos, E. M., & Busemeyer, J. R. (2014). Sometimes it does hurt to ask: the constructive role of articulating impressions. *Cognition*, 133, 48-64.

32. Trueblood, J. S., Pothos, E. M., & Busemeyer, J. R. (2014). Quantum probability theory as a common framework for reasoning and similarity. *Frontiers in Cognitive Science*, 5.

33. Pothos, E. M. & Reppa, I. (2014). The fickle nature of similarity change as a result of categorization. *The Quarterly Journal of Experimental Psychology*, 67, 2425-2438.

34. Yearsley, J. M. & Pothos, E. M. (2014). Challenging the classical notion of time in cognition: a quantum perspective. *Proceedings of the Royal Society B*, 281, 1471-1479.

35. Pothos, E. M. & Busemeyer, J. R. (2014). In search for a standard of rationality. *Frontiers in Cognitive Science*, 5, 1-3.
36. Pothos, E. M., Shiffrin, R. M., & Busemeyer, J. R. (2014). The dynamics of decision making when probabilities are vaguely specified. *Journal of Mathematical Psychology*, 59, 6-17.
37. Laasonen, M., Vare, J., Oksanen-Hennah, H., Leppamaki, S., Tani, P., Harno, H., Hokkanen, L., Pothos, E. M., & Cleeremans, A. (2014). DyAdd: implicit learning in adult dyslexia and ADHD. *Annals of Dyslexia*, 64, 1-33.
38. Pothos, E. M., Busemeyer, J. R., & Trueblood, J. S. (2013). A quantum geometric model of similarity. *Psychological Review*, 120, 679-696.
39. Wang, Z., Busemeyer, J. R., Atmanspacher, H., & Pothos, E. M. (2013). The potential of using quantum theory to build models of cognition. *Topics in Cognitive Science*, 5, 672-688.
40. Blutner, R., Pothos, E. M., & Bruza, P. (2013). A quantum probability perspective on borderline vagueness. *Topics in Cognitive Science*, 5, 1-26.
41. Pinhas, M., Pothos, E. M., & Tzelgov, Y. (2013). Zooming in and out from the mental number line: evidence for a number range effect. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 39, 972-976.
42. Pothos, E. M. & Busemeyer, J. R. (2013). Can quantum probability provide a new direction for cognitive modeling? *Behavioral & Brain Sciences*, 36, 255-327. (target article) [Web of Science rank 200/7480 in the category Psychology Biological, for 2010- 2014 period.](#)
43. Wills, A. J. & Pothos, E. M. (2012). On the adequacy of Bayesian evaluations of categorization models: Reply to Vanpaemel & Lee (2012). *Psychological Bulletin*, 138, 1259-1261 .
44. Close, J. & Pothos, E. M. (2013). "Object categorization: reversals and explanations of the basic-level advantage" (Rogers & Patterson, 2007): a simplicity account. *Quarterly Journal of Experimental Psychology*, 65, 1615-1632.
45. Busemeyer, J. R. & Pothos, E. M. (2012). Social projection and a quantum approach for behavior in Prisoner's Dilemma. *Psychological Inquiry*, 23, 28-34.
46. Edwards, D. J., Pothos, E. M., & Perlman, A. (2012). Relational vs. absolute representation in categorization. *American Journal of Psychology*, 125, 481-497.
47. Perlman, A., Hahn, U., Edwards, D. J., & Pothos, E. M. (2012). Further attempts to clarify the importance of category variability for categorization. *Journal of Cognitive Psychology*, 24, 203-220.
48. Wills, A. J. & Pothos, E. M. (2012). On the adequacy of current empirical evaluations of formal models of categorization. *Psychological Bulletin*, 138, 102-125.
49. Pothos, E. M., Perlman, A., Bailey, T. M., Kurtz, K., Edwards, D. J., Hines, P., & McDonnell, J. V. (2011). Measuring category intuitiveness in unconstrained categorization tasks. *Cognition*, 121, 83-100.
50. Milton, F. & Pothos, E. M. (2011). Category structure and the two learning systems of COVIS. *European Journal of Neuroscience*, 34, 1326-1336.
51. Pothos, E. M. & Busemeyer, J. R. (2011). Formalizing heuristics in decision-making: a quantum probability perspective. *Frontiers in Cognition*, 2, 1-3.
52. Pothos, E. M. & Busemeyer, J. R. (in press). Open peer commentary. The fallacy of normativism: falling in love with ourselves. A case for limited prescriptive normativism. *Behavioral and Brain Sciences*.
53. Pothos, E. M., Edwards, D. J., & Perlman, A. (2011). Supervised vs. unsupervised categorization: Two sides of the same coin? *Quarterly Journal of Experimental Psychology*, 64, 1692-1713.
54. Busemeyer, J. R., Pothos, E. M., Franco, R., & Trueblood, J. (2011). A quantum theoretical explanation for probability judgment errors. *Psychological Review*, 118, 193-218.
55. Pothos, E. M., Perry, G., Corr, P. J., Matthew, M., & Busemeyer, J. R. (2011). Understanding cooperation in the Prisoner's Dilemma game. *Personality and Individual Differences*, 51, 210-215.
56. Pothos, E. M. (2010). An entropy model for Artificial Grammar Learning. *Frontiers in Cognitive Science*, 1, 1-13.
57. Tapper, K., Pothos, E. M., & Lawrence, A. D. (2010). Feast your eyes: hunger and trait reward drive predict attentional bias for food cues. *Emotion*, 10, 949-954.
58. Calitri, R., Pothos, E. M., Tapper, K., Brunstrom, J. M., & Rogers, P. J. (2010). Cognitive biases to healthy and unhealthy food words predict change in BMI. *Obesity*, 18, 2282-2287.

59. Pothos, E. M., Hahn, U., & Prat-Sala, M. (2010). Contingent necessity vs. logical necessity in categorization. *Thinking & Reasoning*, 16, 45-65.
60. Tapper, K. & Pothos, E. M. (2010). Development and validation of a food preoccupation questionnaire. *Eating Behaviors*, 11, 45-53.
61. Hahn, U., Prat-Sala, M., Pothos, E. M., & Brumby, D. (2010). Exemplar similarity and rule application. *Cognition*, 114, 1-18.
62. Kosnes, L., Pothos, E. M., & Tapper, K. (2010). Increased affective influence: situational complexity or deliberation time? *American Journal of Psychology*, 123, 29-38.
63. Pothos, E. M. & Tapper, K. (2010). Inducing a Stroop effect. *Applied Cognitive Psychology*, 24, 1021-1033.
64. Perlman, A., Pothos, E. M., Edwards, D. J., & Tzelgov, J. (2010). Task-relevant chunking in sequence learning. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 649-661.
65. Nikolopoulos, D. S. & Pothos, E. M. (2009). Dyslexic participants show intact spontaneous categorization processes. *Dyslexia*, 15, 167-186.
66. Pothos, E. M. & Wood, R. L. (2009). Separate influences in learning: evidence from artificial grammar learning with traumatic brain injury patients. *Brain Research*, 1275, 67-72.
67. Pothos, E. M., Tapper, K., & Calitri, R. (2009). Cognitive and behavioral correlates of BMI among male and female undergraduate students. *Appetite*, 52, 797-800.
68. Pothos, E. M. & Busemeyer, J. R. (2009). A quantum probability explanation for violations of 'rational' decision theory. *Proceedings of the Royal Society B*, 276, 2171-2178.
69. Pothos, E. M. & Bailey, T. M. (2009). Predicting category intuitiveness with the rational model, the simplicity model, and the Generalized Context Model. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 35, 1062-1080.
70. Pothos, E. M., Hahn, U., & Prat-Sala, M. (2009). Similarity chains in the transformational paradigm. *European Journal of Cognitive Psychology*, 21, 1100-1120.
71. Pothos, E. M., Calitri, R., Tapper, K., Brunstrom, J. M., & Rogers, P. J. (2009). Comparing measures of cognitive bias relating to eating behavior. *Applied Cognitive Psychology*, 23, 936-952.
72. Visser, I., Raijmakers, M. E. J., & Pothos, E. M. (2009). Individual strategies in artificial grammar learning. *American Journal of Psychology*, 122, 293-307.
73. Pothos, E. M. (2008). Spontaneous categorization: A mechanism for the creation of (simple) concepts. *Noesis*, 3, 181-208. (in Greek).
74. Tapper, K., Pothos, E. M., Fadardi, J. S., & Ziori, E. (2008). Restraint, disinhibition and food-related processing bias. *Appetite*, 51, 335-338.
75. Brunstrom, J. M., Rogers, P. J., Pothos, E. M., Calitri, R., & Tapper, K. (2008). Estimating everyday portion size using a 'method of constant stimuli': In a student sample, portion size is predicted by gender, dietary behaviour, and hunger, but not BMI. *Appetite*, 51, 296-301.
76. Pothos, E. M. & Close, J. (2008). One or two dimensions in spontaneous classification: A simplicity approach. *Cognition*, 107, 581-602.
77. Bailey, T. M. & Pothos, E. M. (2008). AGL StimSelect: Software for automated selection of stimuli for Artificial Grammar Learning. *Behavior Research Methods*, 40, 164-176.
78. Hatzidaki, A. & Pothos, E. M. (2008). Bilingual language representation and cognitive processes in translation. *Applied Psycholinguistics*, 29, 125-150.
79. Pothos, E. M. (2007). Occam and Bayes in predicting category intuitiveness. *Artificial Intelligence Review*, 28, 257-274.
80. Pothos, E. M. (2007). Theories of Artificial Grammar Learning. *Psychological Bulletin*, 133, 227-244.
81. Hines, P., Pothos, E. M., & Chater, N. (2007). A non-parametric approach to simplicity clustering. *Applied Artificial Intelligence*, 21, 729-752.
82. Cox, W. M., Pothos, E. M., & Hosier, S. G. (2007). Cognitive-motivational predictors of excessive drinkers' success in changing. *Psychopharmacology*, 192, 499-510.
83. Pothos, E. M. & Juola, P. (2007). Characterizing linguistic structure with mutual information. *British Journal of Psychology*, 98, 291-304.
84. Pothos, E. M. & Wolff, J. G. (2006). The Simplicity and Power model for inductive inference. *Artificial Intelligence Review*, 26, 211-225.

85. Cox, W. M., Fadardi, J. S., & Pothos, E. M. (2006). The addiction-Stroop test: Theoretical considerations and procedural recommendations. *Psychological Bulletin*, 132, 443-476.
86. Pothos, E. M., Chater, N., & Ziori, E. (2006). Does stimulus appearance affect learning? *The American Journal of Psychology*, 119, 277-301.
87. Pothos, E. M. (2005). Expectations about stimulus structure in implicit learning. *Memory & Cognition*, 33, 171-181.
88. Pothos, E. M. & Chater, N. (2005). Unsupervised categorization and category learning. *Quarterly Journal of Experimental Psychology*, 58A, 733-752.
89. Pothos, E. M. (2005). The rules versus similarity distinction. *Behavioral & Brain Sciences*, 28, 1-49. (target article)
90. Pothos, E. M., Chater, N., & Stewart, A. J. (2004). Information about the logical structure of a category affects generalization. *British Journal of Psychology*, 95, 371-386.
91. Pothos, E. M. & Kirk, J. (2004). Investigating learning deficits associated with dyslexia. *Dyslexia*, 10, 61-76.
92. Pothos, E. M., & Cox, W. M. (2002). Cognitive bias for alcohol-related information in inferential processes. *Drug and Alcohol Dependence*, 66(3), 235-241. (Included in abstracts collection: *Alcohol Research* (2002), vol. 7, p. 222.)
93. Pothos, E. M. & Chater, N. (2002). A simplicity principle in unsupervised human categorization. *Cognitive Science*, 26, 303-343.
94. Cox, W. M., Pothos, E. M., Laberg, J., & Johnsen, B. (2001). Methodological issues attached to the alcohol Stroop paradigm: Comments on a paper by Sharma, Albery, and Cook (2001). *Addiction*, 96, 1261-1265.
95. Leek, E. C. & Pothos, E. M. (2001). Open peer commentary. What is specific about category-specificity? Fractionating patterns of impairments and the spurious living/nonliving dichotomy. *Behavioral and Brain Sciences*, 24, 487-488.
96. Pothos, E. M. (2001). Open peer commentary. Context effects equally applicable in generalization and similarity. *Behavioral and Brain Sciences*, 24, 699-700.
97. Pothos, E. M. & Juola, P. (2001). Open peer commentary. Linguistic structure and short term memory. *Behavioral and Brain Sciences*, 24, 138-139.
98. Cox, W. M., Pothos, E. M., & Bauer, D. (2000). More recommendations for the Stroop colour-naming task and addictive behaviours: A Reply to Faunce and Job. *Addiction*, 95, 1440-1442.
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100. Pothos, E. M. & Hahn, U. (2000). So concepts aren't definitions, but do they have necessary *or* sufficient features? *British Journal of Psychology*, 91, 439-450.
101. Pothos, E. M. & Ward, R. (2000). Symmetry, repetition, and figural goodness: an investigation of the weight of evidence theory. *Cognition*, 75, B65-B78.

Other refereed publications and book chapters

1. Yearsley, J. M., Pothos, E. M., & Barque-Duran, A. (2017). Empirical constraints on computational level models of interference effects in human probabilistic judgments. In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
2. Barque-Duran, A., Pothos, E., Yearsley, J., Hampton, J. (2017). The impact of the Digital Age in Moral Judgments. In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
3. Barque-Duran, A., Pothos (2017). The Refugees' Dilemma: not all deontological moral choices are of the same kind. In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
4. Yearsley, J. M., Trueblood, J. S., & Pothos, E. M. (2016). When are representations of causal events quantum versus classical? In A. Papafragou, D. Grodner, D. Mirman, & J. C. Trueswell (Eds.) *Proceedings of the 38th Annual Meeting of the Cognitive Science Society*. (pp. 2447-2452). Austin, TX: Cognitive Science Society.
5. Yearsley, J. M. & Pothos, E. M. (in press). Intermediate judgments inhibit belief updating: Zeno's paradox in decision making. In *Proceedings of the 38th Annual Meeting of the Cognitive Science Society*.

6. Trueblood, J. S., Mistry, P. K., & Pothos, E. M. (2015). A Quantum Bayes Net approach to causal reasoning. In E. Dzhafarov, R. Zhang, S. Joardan, & V. Cervantes (Eds.) *Contextuality: from quantum physics to psychology*, pp.429-444. World Scientific.
7. Barque-Duran, A., Pothos, E. M., Yearsley, J. M., Hampton, J. A., Busemeyer, J. R., & Trueblood, J. S. (2015). Similarity judgments: from classical to complex vector psychological spaces. In E. Dzhafarov, R. Zhang, S. Joardan, & V. Cervantes (Eds.) *Contextuality: from quantum physics to psychology*, pp. 395-428. World Scientific.
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10. Yearsley, J. M., Pothos, E. M., Barque-Duran, A., & Hampton, J. A. (2015). Diagnosticity: some theoretical and empirical progress. In *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.
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15. Trueblood, J. S. & Pothos, E. M. (2014). A quantum probability approach to human causal reasoning. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Austin TX: Cognitive Science Society.
16. Busemeyer, J. R., Wang, Z., & Pothos, E. M. (2014). Quantum models of cognition and decision. In J. R. Busemeyer, Z. Wang, J. T. Townsend, A. Eidels (Eds.) *The Oxford handbook of computational and mathematical psychology*, pp.369-389 Oxford University Press: Oxford.
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18. Reppa, I. & Pothos, E. M. (2013). Predicting similarity change as a result of categorization. In *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin TX: Cognitive Science Society.
19. Pothos, E. M., Wang, Z., & Busemeyer, J. R. (2013). Half day tutorial on using quantum probability theory to model cognition. In *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin TX: Cognitive Science Society. (tutorial)
20. White, L. C., Pothos, E. M., & Busemeyer, J. R. (2013). A quantum probability perspective on the nature of psychological uncertainty. In *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 1599-1604). Austin TX: Cognitive Science Society.
21. Pothos, E. M., Busemeyer, J. R., Shiffrin, R. M., Trueblood, J. S., Wang, Z., Blutner, R. K., Atmanspacher, H. (2011). The potential of quantum probability for modeling quantum processes. (Symposium.) In *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, LEA: Mahwah, NJ.
22. Pothos, E. M. & Busemeyer, J. R. (2011). A quantum probability explanation for violations of symmetry in similarity judgments. In *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, pp. 2848-2854. LEA: Mahwah, NJ.
23. Close, J., Hahn, U., Hodgetts, C. J., & Pothos, E. M. (2010). Rules and similarity in adult concept learning. In D. Mareschal, P. C. Quinn, & S. E. G. Lea (Eds.) *The making of human concepts*, pp. 29-52. Oxford: Oxford University Press.
24. Pothos, E. M., Perlman, A., Edwards, D. J., Gureckis, T. M., Hines, P. M., & Chater, N. (2008). Modeling category intuitiveness. In *Proceedings of the 30th Annual Conference of the Cognitive Science Society*, LEA: Mahwah, NJ.

25. Pothos, E. M., Tapper, K., Fadardi, J., & Ziori, E. (2006). How Do Cognitive Processes Support Over-eating? In *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, 2589, LEA: Mahwah, NJ.
26. Hahn, U., Prat-Sala, M., & Pothos, E. M. (2002). How similarity affects the ease of rule application. In *Proceedings of the Twenty Fourth Annual Conference of the Cognitive Science Society*, 411-416, LEA: Mahwah, NJ.
27. Pothos, E. M. & Chater, N. (2001). Basic categories by simplicity. In U. Hahn & M. Ramscar (Eds.) *Similarity and Categorization*. pp. 51-72. Oxford: Oxford University Press.
28. Pothos, E. M. & Chater, N. (2001). Category learning without labels--A simplicity approach. In *Proceedings of the 23rd Annual Conference of the Cognitive Science Society*, 774-779, LEA: Mahwah, NJ.
29. Pothos, E. M. & Bailey, T. M. (1999). An entropy model of artificial grammar learning. In *Proceedings of the Twenty-first Annual Conference of the Cognitive Science Society*, 549-554, LEA: Mahwah, NJ.
30. Pothos, E. M. & Ward, R. (1999). An evaluation of the weight of evidence theory of figural goodness. In *Proceedings of the Twenty-first Annual Conference of the Cognitive Science Society*, 811, LEA: Mahwah, NJ.
31. Pothos, E. M., Juola, P., & Ellis, N. C. (1999). Linguistic structure and short term memory. In *Proceedings of the Twenty-first Annual Conference of the Cognitive Science Society*, 810, LEA: Mahwah, NJ.
32. Bailey, T. M. & Pothos, E. M. (1998). Unconfounding similarity and rules in artificial grammar learning. In *Proceedings of the Twentieth Annual Conference of the Cognitive Science Society*, 96-101, LEA: Mahwah, NJ.
33. Pothos, E. M. & Chater, N. (1998). Generality of the abstraction mechanisms in artificial grammar learning. In *Proceedings of the Twentieth Annual Conference of the Cognitive Science Society*, 854-858, LEA: Mahwah, NJ.
34. Pothos, E. M. & Chater, N. (1998). Rational categories. In *Proceedings of the Twentieth Annual Conference of the Cognitive Science Society*, 848-853, LEA: Mahwah, NJ.
35. Juola, P., Bailey, T. M., & Pothos, E. M. (1998). Theory-neutral domain regularity measurements. In *Proceedings of the Twentieth Annual Conference of the Cognitive Science Society*, 555-560, LEA: Mahwah, NJ.
36. Pothos, E. M. (1998). The magical number seven in language. In *Proceedings of the Twentieth Annual Conference of the Cognitive Science Society*, 1255, LEA: Mahwah, NJ.
37. Pothos, E. M. & Bailey, T. M. (1997). Rules vs. similarity in artificial grammar learning. In *Proceedings of the Similarity and Categorisation Workshop 97*, 197-203, University of Edinburgh.
38. Pothos, E. M. & Chater, N. (1997). Classification and prior assumptions about category "shape": new evidence concerning prototype and exemplar theories of categorization. In *Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society*, 620-625, LEA: Mahwah, NJ.
39. Pothos, E. M. & Chater, N. (1997). An information theoretic approach to non-parametric clustering. In *Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society*, 1012, LEA: Mahwah, NJ.

Courses taught

- **Research design and analysis**

T-test, ANOVA and multiple comparisons, linear and multiple regression, chi-squared and likelihood ratio tests, power, clustering, multidimensional scaling, introductory factor analysis, introductory ANCOVA

- **Learning and categorization**

Basic theories of categorization (classical view, exemplar similarity, prototype similarity, theory view), basic theories of learning (rules, similarity, associative learning); related topics.

- **Introduction to cognitive psychology**

Reasoning, decision making, memory, attention, representation, concepts, associative learning.

- **Generic research skills (MSc; module organizer)**

Grant capture, review process, literature review, conference presentation, research methods. Teaching specified with a view to satisfy ESRC accreditation requirements.

- **Computing skills (MSc; module organizer)**

Superlab, basic computing skills (web design, computations and data file manipulation in Excel, PowerPoint).

Award of Teaching in Higher Education Certificate (September 2000)

Administration

- Creation of departmental web pages (Crete)
- School web and marketing officer/ **Psychology web editor** (Swansea; since Sept. 2006)
- Chair of the Technical committee in the School of Human Sciences (Swansea; since Sept. 2009).
- Chair of the Communications group; Latest news; web page revision (City; since Sept. 2012)
- **REF submission preparation**; ICS review, impact, environment narratives drafts, REF2 preparation (selection of publications, special circumstances).
- **Workload model**: specification of a system for tracking all demands on academic time (City; since Sept. 2013).