

**JOHN SYMONS**  
johnsymons@ku.edu  
785 748 1195

## **EDUCATION**

Ph.D. Philosophy, Boston University, 2002  
B.A. Philosophy, Connecticut College, 1994

## **FIELDS OF INTEREST**

Metaphysics and Epistemology of Science, Philosophy of Psychology

## **ACADEMIC APPOINTMENT**

2012 - present Professor, University of Kansas  
Chair, Department of Philosophy (2012-present)  
2009 - present External Faculty, Centro de Filosofia das Ciências da Universidade de Lisboa and Lisbon  
University Institute, Lisbon  
2007 - 2012 Associate Professor, University of Texas at El Paso  
Chair, Department of Philosophy (2008-2012)  
2002 - 2007 Assistant Professor, University of Texas at El Paso  
2005 Visiting Professor, Institute of Foreign Philosophy, Peking University, Beijing

## **SCHOLARSHIPS, HONORS, AND AWARDS**

2010 - 2011 Fundación Séneca-Agencia de Ciencia y Tecnología de la Región de Murcia, Project  
11944/PHCS/09 (Paco Calvo and John Symons) (€ 35,000)  
2009 - 2010 John Templeton Foundation Individual Research Award (\$60,124)  
2009 - 2011 CETAL Faculty, Center for Excellence in Teaching and Learning, UTEP  
2005 Large Class Academy Stipend, Center for Excellence in Teaching and Learning, UTEP  
2002 - 2003 University of Texas System, University Research Institute Award  
1998 - 1999 Dibner Predoctoral Fellowship, Massachusetts Institute of Technology  
1998 Humanities Foundation Award, Boston University  
1997 - 1998 Junior Fellowship, Institut für die Wissenschaften vom Menschen, Vienna  
1997 Peter Bertocci Scholarship, Boston University  
1997 Machette Prize for best graduate student paper of 1996-97, Boston University  
1994 Oakes and Louise Ames Prize for best undergraduate thesis at Connecticut College  
1993 Suzanne K. Langer Award

## **PROFESSIONAL ASSOCIATIONS AND OFFICES**

2012 - 2013 World Congress of Philosophy  
Co-chair for Philosophy of the Life Sciences  
2010 - 2013 American Philosophical Association  
Committee on International Cooperation (2010-2013)  
Ad-hoc committee on journal practices (2010-2011)  
2007 - 2009 New Mexico-Texas Philosophical Association  
Vice President (2007-2008) President (2008-9)  
2005 - present Institut Internationale de Philosophie, Permanent Member

2005 - 2009      Institut d'Histoires et de Philosophie des Sciences et des Techniques, Associate Member

## PUBLICATIONS

### Books

*The Architecture of Cognition: Rethinking Fodor and Pylyshyn's Systematicity Challenge* Co-edited with Paco Calvo (Cambridge: MIT press 2014)

*Daniel Dennett: Critical Assessments of Leading Philosophers* (New York: Routledge 2014)

*Special Sciences and the Unity of Science* Co-edited with Olga Pombo, Shahid Rahman, and Juan Manuel Torres (New York: Springer 2012)

*Philosophy of Physics; 5+1 Questions.* Co-edited with Juan Ferret (Automatic Press, 2010)

*Otto Neurath and the Unity of Science.* Co-edited with Olga Pombo (New York: Springer 2010)

*Routledge Companion to the Philosophy of Psychology.* Co-edited with Paco Calvo (New York: Routledge, 2009)

*Masses of Formal Philosophy.* Co-edited with Vincent Hendricks (Automatic Press, 2006)

*Formal Philosophy.* Co-edited with Vincent Hendricks (Automatic Press, 2005)

*Questions, Quantifiers and Quantum Physics: Essays on the Philosophy of Jaakko Hintikka.* Co-edited with Dan Kolak (New York: Springer, 2004)

*Logic, Epistemology and the Unity of Science.* Co-edited with Jean Paul van Bendegem, Dov Gabbay and Shahid Rahman (Dordrecht: Kluwer, 2004)

*On Dennett,* (Belmont CA: Wadsworth, 2002).

Translated into Slovak by Juraj Hvorecky as *Dennett* (Bratislava: Albert Marenčin 2004)

Translated into French by Mathieu Aury with additional chapters on Quinean naturalism, as *Dennett: Un naturalisme en chantier.* (Paris: Presses Universitaire de France, 2005)

Translated into Chinese (forthcoming)

### Books (under contract)

*From Common Sense to Formal Reasoning: An Introduction to Critical Thinking* (under contract with Pearson)

*Biological Minds: The Metaphysics of Mind after Physicalism* (under contract with Springer)

## Journal special issues edited

*Between Logic and Intuition: The Philosophy of David Lewis*, a special issue of *Synthese* March 2013

Social Structures in Communication Networks a special issue of *International Journal of Agent Systems and Technologies* 1(4) [2009]

## Articles and Chapters

“Software Intensive Science” (with Jack Horner) *Philosophy and Technology*, Volume 27, Issue 3, pp 461-477, 2014

“Reply to Angius and Primiero on Software Intensive Science” (with Jack Horner) *Philosophy and Technology* Volume 27, Issue 3, pp 491-494, 2014

“Computing with Bodies: Morphology, Function, and Computational Theory.” in Charles Wolfe (ed.) *Brain Theory: Essays in Critical Neurophilosophy* New York: Palgrave pp. 91-106, 2014

“The Emergence of Systematicity in Minimally Cognitive Agents” (with Paco Calvo and Emma Martin) in *The Architecture of Cognition: Rethinking Fodor and Pylyshyn’s Systematicity Challenge* Co-edited with Paco Calvo Cambridge: MIT press 397-434, 2014

“Systematicity: An Overview” (with Paco Calvo) in *The Architecture of Cognition: Rethinking Fodor and Pylyshyn’s Systematicity Challenge* Co-edited with Paco Calvo Cambridge: MIT press 3-30, 2014

“How computational models predict the behavior of complex systems” *Foundations of Science* (with Fabio Boschetti) *Foundations of Science* 18 (4), 809-821, 2013.

“Applying Logic: Some Remarks on the Reciprocal Influence of Experimental and Formal Investigations of Identification.” *Acta Philosophica Fennica*, 90, 99-111, 2013.

“What is a Model, Why People Don’t Trust Them, and Why They Should.” (with Boschetti F, Fulton E.A., Bradbury, R.H.) In *Negotiating Our Future: Living scenarios for Australia to 2050*, Vol 2. Australian Academy of Science 107-119, 2012

“Beyond Error Correction” *Frontiers in Theoretical and Philosophical Psychology* doi: 10.3389/fpsyg.2012.00423 September, 2012 (with Paco Calvo and Emma Martin)

“Thinking about Pain in Hell: Identifying Qualia Across Possible Worlds.” *Southwest Philosophical Studies*. 32: 1-11 2012

‘Borders’ (with Josiah Heyman) in *A Companion to Moral Anthropology*. Didier Fassin ed. Wiley-Blackwell 540-559, 2012

- “Limiting Skepticism” (with Vincent Hendricks) *Logos and Episteme* 2, 2 211-224, 2011
- “Six Questions on Complex Systems’ *Numerical Analysis and Applied Mathematics ICNAAM 2011* 1389, 956-958, 2011
- “Novel properties generated by interacting computational systems: A minimal model” (with Fabio Boschetti *Complex Systems* 20, 151-164, 2011
- “Logic and Formal Semantics for Epistemology” in *Routledge Companion to Epistemology*. Duncan Pritchard and Sven Bernecker (eds) New York: Routledge. 571-586, 2011
- “Ontology and Methodology in the Analytic Philosophy” in *Theories and Applications of Ontology Vol. 1* J. Seibt and R. Poli (eds.) New York: Springer. 349-394, 2010.
- “The Individuality of Organisms and Artifacts” *History and Philosophy of the Life Sciences* Vol. 32, no. 2-3, 233-47, 2010
- “Teleology in Biology: Haddox on the Basic Principles of the Living World” in *Thought and Social Engagement in the Mexican-american Philosophy of John H. Haddox: A Collection of Critical Appreciations*. Carlos Alberto Sanchez and J.Simon ed. Lewiston, New York: Edwin Mellen Press, 2010
- “Epistemic Logic” (with Vincent Hendricks) in *The Stanford Encyclopedia of Philosophy (Spring 2009 Edition)*, Edward N. Zalta (ed.), URL = <http://plato.stanford.edu/archives/spr2009/entries/logic-epistemic/>
- “Supervenience” in *The Encyclopedia of Neuroscience*. New York: Springer, vol. 19, 3901-3903, 2009
- “What has Philosophy of Psychology Become?” *Routledge Companion to Philosophy of Psychology*. John Symons and Paco Calvo (eds.) New York: Routledge xxi-xxiv, 2009
- “Inquiry and Functionalism” in Cédric Dégrement, Laurent Kieff and Helge Rückert (eds.) *Dialogues, Logic and Other Strange Things, Essays in Honour of Shabid Rahman*. London: College Publications 385-393, 2008
- “Intuition and Philosophical Methodology” *Axiomathes* 18: 67-89, 2008
- “Detecting Emergence in the Interplay of Networks” Interplay of Networks”, in Goran P. Trajkovski and Samuel G. Collins (eds.) (2008) *Emergent Agents and Socialities: Social and Organizational Aspects of Intelligence, AAAI Technical Report FS-07-04*. Menlo Park, California: The AAAI Press. 86-93
- “Computational Models of Emergent Properties” *Minds and Machines* 18, 4: 475-491, 2008
- Reprinted in Nigel Gilbert (ed) *Computational Social Science*. London: Sage publications 2010
- “A Computational Modeling Strategy for Levels” *Philosophy of Science* 75, 608-620. 2008
- “Understanding the Complexity of Information Processing Tasks in Vision.” In Carlos Gershenson, Diederik Aerts, and Bruce Edmonds (eds.) *Philosophy and Complexity: Essays on Epistemology, Evolution, and Emergence*. Singapore: World Scientific 300-314, 2007
- “Towards a General Description of Physical Invariance in Category Theory” (with Vladik Kreinovich

and Julio Urenda) *Journal of Uncertain Systems* 1: 170-175, 2007

“Pattern-oriented analysis of communication flow: the case study of *Cicada barbara lusitanica*.” (with Louçã, J, Rodrigues, D., Morais, A.) *Proceedings of the 21st European Conference on Modelling and Simulation ECMS 2007*, Ivan Zelinka, Zuzana Oplatková, Alessandra Orsoni, ed. Prague: ECMS pp. 229-234, 2007

“Quine, Barcan-Marcus and Kripke on Modality” *Southwest Philosophical Studies* 29, 49-54, 2007

“No Mere Formality: On Why Formal Philosophy Matters” (with Vincent Hendricks) *The Philosophers' Magazine* 3rd quarter 35-38, 2007

“Where’s the Bridge? Epistemic logic and epistemology” (with Vincent Hendricks) *Philosophical Studies* 128:137-167, 2006

“The Results are in: On the scope and import of Hintikka’s philosophy”, (With Daniel Kolak) in *Questions, Quantifiers and Quantum Physics*. New York: Springer 190-258, 2004

“Systems of visual identification in neuroscience: Lessons from epistemic logic.” With Jaakko Hintikka *Philosophy of Science* 70: 89-104, 2003

Reprinted in Hintikka, J. *Socratic Epistemology: Explorations of Knowledge-Seeking by Questioning*. Cambridge: Cambridge University Press. 2007

“Logic, Epistemology and the Unity of Science: An Encyclopedic Project in the Spirit of Diderot and Neurath” With Shahid Rahman in *Logic, Epistemology and the Unity of Science*. Dordrecht: Kluwer Academic Publishers: 4-36, 2003

“Emergence and Reflexive Downward Causation” *Principia* 6: 14-39, 2002

“Information, Representation, and the Dynamic Systems Approach to Language: Commentary on Shanker and King”, *Behavioral and Brain Sciences* 25 640-641, 2002

“Explanation, Representation and the Dynamical Hypothesis” *Minds and Machines* 11: 521-541, 2001

“What can Neuroscience Explain?” *Brain and Mind* 2: 243-248, 2001

## Book reviews

“Review of Yoav Shoham and Kevin Leyton-Brown *Multiagent Systems - Algorithmic, Game-Theoretic, and Logical Foundations*.” *International Journal of Agent Technologies and Systems* 1 (4) 68-70, 2009

“Review of Giandomenico Sica (ed.) *What is Category Theory?*” *Studia Logica* 89 (2) 285-289, 2008

“Review of Steven Wolfram, *A New Kind of Science*”, *International Journal of Philosophical Studies* 12 (4) 504-508, 2004

“Review of Jean Gayon, *Darwinism’s Struggle for Survival: Heredity and the Hypothesis of Natural Selection*” *International Journal of Philosophical Studies* 9 (1), 90-94, 2001

## EDITORSHIPS AND EDITORIAL BOARD MEMBERSHIPS

2002 - 2011	Editor-in-Chief, <i>Synthese</i>
2002 - 2013	Editor-in-Chief, <i>Synthese Library</i> Book Series, Springer
2007 - 2010	Editorial Board Member <i>International Journal of Agent Technologies and Systems</i>
2004 - present	Editor-in-Chief, <i>Logic, Epistemology and the Unity of Science</i> Book Series, Springer
2005 - present	Editor-in-Chief <i>Texts in Philosophy</i> Book Series, College Publications
2009 - present	Editorial Board Member <i>Kairos: A Journal of Philosophy &amp; Science</i>
2010 - present	Editorial Board Member <i>Logos and Episteme: An International Journal of Epistemology</i>
2012 - present	Editorial Board Member <i>Axiomathes: An International Journal in Ontology and Cognitive Systems</i>
2014 - present	Editorial Board Member <i>Science, Religion, and Culture</i>

## PRESENTATIONS

- [1] Imagining the Thinking Thing; on the role of Imagination in Descartes' *Meditations*  
Twentieth World Congress of Philosophy, Boston MA (August 16, 1998)
  
- [2] Explanation in Neuroscience: Complex Systems and Cognition  
Second International Conference on Complex Systems, Nashua NH (October 29, 1998)
  
- [3] Emergentism and Levels-Talk  
Department of Philosophy, Connecticut College, New London (February 18, 1999)
  
- [4,5] Levels of Explanation in the Brain Sciences  
Center for Theoretical Studies, Charles University, Prague. (October 10, 1997)  
Boston Colloquium for the Philosophy and History of Science, Boston (November 17, 1999)
  
- [6,7] Prosthetic eyes, plastic brains and the taste of beer  
Department of Philosophy, University of Texas, El Paso (March 14, 2001)  
Clark University, Worcester (March 2, 2001)
  
- [8] Structure-function problems: emergent properties in physics and biology.  
International Society for the Philosophy History and Social Study of Biology, New Haven. (July 19, 2001)
  
- [9,10] Epistemic Logic: Implications for the neuroscience of the visual system.  
IHPST seminar, Paris (February 12 2002)  
Université de Lille- Séminaire Interdisciplinaire (February 13, 2002)
  
- [11] Marr's computational functionalism  
Boston Colloquium for the Philosophy and History of Science (March 25 2002)
  
- [12] Qualia inversion and burdens of proof  
Philosophy Department Colloquium, New Mexico State University (September 25, 2002)
  
- [13] What is an emergentist explanation?  
Colloque franco-finlandais de philosophie des sciences, Institut Finlandais, Paris (March 15, 2003)

- [14-18] Functionalism factored out: Functionalist metaphysics and the research program of cognitive science  
 Brazilian International Conference on Cognitive Science, Sao Paulo (August 22, 2003)  
 Department of Philosophy, University of Cincinnati (January 16, 2004)  
 Department of Philosophy, Brandeis University (March 18, 2004)  
 2004-5 Phi Sigma Tau Distinguished Lecture Series “Minds, Brains and Knowledge” Hartwick College, Oneonta, New York (November 12, 2004)  
 Philosophy Colloquium, Roskilde University, Roskilde (December 5, 2004)
- [19] Kripke and Hintikka on Identity and Identification  
 Problèmes ouverts en épistémologie / Open Problems in Epistemology, UNESCO Paris (November 20, 2003)
- [20-21] Computational physics and the logic of emergence  
 Department of Physics Colloquium, University of Texas at El Paso (February 4, 2004)  
 CNRS conference on emergence, Ecole Normale Supérieure, Paris (April 27, 2004)
- [22] Kim’s objections to emergence  
 Dynamic Ontology 2004, Trento University (September 10, 2004)
- [23] Hintikka on quantifier independence  
 APA Eastern Division, Special session in honor of Jaakko Hintikka, Boston (December 28, 2004)
- [24-27] Emergence and individuation  
 New Mexico-West Texas Philosophical Society, El Paso (April 14, 2005)  
 Department of Foreign Philosophy, Peking University (May 21, 2005)  
 IIP meeting / Department of Philosophy, UNAM Mexico City (August 26th, 2005)  
 Karl Popper Seminar Series, Department of Philosophy, London School of Economics, London (November 22, 2005)
- [28] Intuitive content: Kripke and common sense  
 New Mexico/West Texas Philosophical Association, Las Cruces (April 8, 2006)
- [29,30] Emergence and explanation  
 Department of Philosophy Colloquium, University College Dublin (July 7, 2006)  
 Lisbon Colloquium for the Philosophy of Science, Lisbon (October 27, 2006)
- [31] Cellular automata as models of nature  
 Philosophy of Science Association Biennial Meeting, Vancouver (November 2, 2006)
- [32] Dispositional properties and simple structures  
 Philosophy Department Colloquium, Roskilde University, Roskilde (December 15, 2006)
- [32,33] Limiting skepticism (Jointly written with Vincent Hendricks)  
 Tri-City Philosophical Society, El Paso (March 17, 2005) (with Vincent Hendricks)  
 Philosophy and History of Science Seminar, Bristol University Department of Philosophy. (Presented by Vincent Hendricks) (January 30, 2007)
- [34] Jack Haddox and the philosophy of biology  
 Jack Haddox: Celebrating 50 years of Philosophy at UTEP. University of Texas at El Paso (March 3, 2007)

- [35,36] Inquiry and minimal functionalism  
 New Mexico- West Texas Philosophical Association, Austin (March 31, 2007)  
 Society for Exact Philosophy, Vancouver (May 17, 2007)
- [37] Modal logic, set theory, and category theory in contemporary philosophy  
 Mathematics Department Colloquium, New Mexico State University, Las Cruces NM. (May 3, 2007)
- [38] Pattern-oriented analysis of communication flow  
 21st European Conference on Modelling and Simulation, Prague (June 5, 2007) [Presented by Jorge Louca]
- [39,40] Emergence in social networks: modeling the properties of multi-agent systems  
 Complexity Sciences: Mathematics and Innovation Arrabida, Portugal. (July 4, 2007)  
 The Fourth Conference of the European Social Simulation Association, Toulouse (September 10-14, 2007) [Presented by Jorge Louca]
- [41-43] Detecting emergence in the interplay of networks  
 UACJ, Ciudad Juarez (September 22, 2007)  
 Levels of Reality Conference, Bolzano (October 18, 2007)  
 Emergent Agents and Socialities: Social and Organizational Aspects of Intelligence, Association for the Advancement of Artificial Intelligence, Washington D.C. (November 8-11, 2007)
- [44] Models of emergence  
 ICC Workshop on Complexity in Social Systems, Lisbon (Keynote Speaker) (January 11, 2008)
- [45] Collective agency and sampling; the benefits of sortition  
 Seminario Permanente sobre Dominación en la Organización, UACJ, Ciudad Juarez (April 25, 2008)
- [46] Identity, cross identification and the attitudes  
 76e Congrès de l'Acfas (Association francophone pour le savoir), Québec City (May 9, 2008)
- [47-51] Pain and Embodiment  
 Philosophy department colloquium, New Mexico State University, Las Cruces NM. (December 4, 2007)  
 New Mexico-West Texas Philosophical Society (April 7, 2008)  
 NEUPHI: Boston University/MIT Philosophy of Neuroscience Colloquium (April 18, 2008)  
 Week of the Humanities. Keynote. UACH, Chihuahua. (October 11, 2008)  
 Departmental Colloquium, University of Nevada, Las Vegas (May 8, 2009)
- [52,53] Do petabyte level resources make any qualitative difference to scientific inquiry?  
 Physics department colloquium, University of Texas at El Paso (September 10, 2008)  
 Joint Fall 2008 Meeting of the Texas and Four Corner Sections of APS, AAPT, and Zones 13 and 16 of SPS, and the Societies of Hispanic & Black Physicists  
 (With Vladik Kreinovich and John McClure) (October 17, 2008)
- [54-56] Fission and the identity of individual organisms  
 Philosophical and historical perspectives on the organism, Sorbonne, Paris (December 13, 2008)  
 Centro de Filosofia das Ciências da Universidade de Lisboa (CFCUL) Colloquium (January 12, 2009)  
 Presidential Address, New Mexico-West Texas Philosophical Society, Houston (March 22, 2009)
- [57,58] An introduction to information theoretic measures of emergence  
 Lisbon University Institute, PhD program in complexity. (July 4, 2009)



Emergence in the physical and social sciences, Arrabida  
<http://www.assystcomplexity.eu/video.jsp?id=13> (July 7, 2009)

- [59] What are complexity and emergence? Some reflections on entropy and individuation in toy worlds.’  
University of Sydney, Department of Philosophy Colloquium. (August 5, 2009)
- [60-62] Network dynamics and computational models of emergence  
University of Pittsburgh, Center for Philosophy of Science ‘Emergence and Reduction in the Sciences’ (December 12, 2009)  
University of Lisbon, Faculty of Sciences, Department of History and Philosophy of Science (January 18, 2010)  
Lehigh University, Department of Philosophy Colloquium, (February 12, 2010)
- [63] The incompleteness of physicalism  
University of Southern Illinois, (July 17, 2010)
- [64] Complexity and the laws of nature  
European Conference on Complex Systems (September 13, 2010)
- [65] Reversibility and transients in computational models  
‘The Limits of the Knowledge Society’ The Romanian Academy, Iasi, Romania. (October 8 2010)  
Delivered by videoconference.
- [66] Embodied computation  
University of Pittsburgh ‘Workshop on embodied cognition’ (March 20, 2011)
- [67] Predictions from computational models: Some epistemic and political challenges  
Keynote Address. ‘Politics and Knowledge’ Romanian Academy, Iasi, Romania. (November 30, 2011)
- [68] Why models’ outputs should be interpreted as predictions (with Fabio Boschetti)  
MODSIM International Conference on Modelling and Simulation, (Modelling and Simulation Society of Australia and New Zealand) Perth (December 13, 2011) (Presented by Fabio Boschetti)
- [69] Physicalism in twentieth century philosophy.  
Keynote address to the Encuentro Binacional de Filosofía. UACJ, Ciudad Juárez, Chihuahua. (March 29, 2012)
- [70] An Emergentist’s Guide to Fundamentalism.  
Department of Philosophy, University of Kansas (April 12, 2012)
- [71] Embodied Computation  
New Mexico West Texas Philosophical Society, College of San Antonio (March 23, 2013)
- [72] ...and no surprises, please. Physicalism, Information Loss, and Emergence.  
Fifth Workshop on Philosophy of Information, University of Hertfordshire (March 28, 2013)
- [73] Meaningful interactions for minimally cognitive agents.  
Interactivist Summer Institute, University of South Florida (August 4, 2013)

- [74-75] Physicalism and Scientific Evidence  
 Invited Lecture in Arts and Sciences, Des Moines Area Community Colleges, Ankeny Branch  
 (November 25, 2013)  
 Lisbon Colloquium for the Philosophy of Science, Lisbon (December 5, 2013)
- [76] Posthuman Science.  
 Invited Lecture, Appolonia University, Iasi, Romania (February 28, 2014)
- [77] Formalism for Debiasing.  
 Pacific Division Meeting, APA, San Diego (April 18, 2014)
- [78] Carving Causes at the Joints: Mathematical Invariance and Invariant Relations between Events  
 Causation in Science: Powers, Mechanism, Singularism, Norwegian University of the Life Sciences  
 (September 16, 2014)
- [79] Open Problems in Complex Systems Science.  
 Galilei-Turing Round-Table, 2014 Interdisciplinary Symposium on Complex Systems (ISCS'14)  
 University of Florence, Italy. (September 18, 2014)
- [80] What can we Teach our Posthuman Descendants?  
 Hall Center Lecture in the Humanities (October 7, 2014)
- [81] The Limits of Information Processing in Software Intensive Science  
 Eastern Division Meeting, APA, Philadelphia (December 28, 2014)

### **Commentaries**

- [1] Response to Peter Swiggart 'Skepticism at Harvard: The Quinean Tradition. David Hall Memorial  
 Lecture Series, University of Texas at El Paso (April 5, 2002)
- [2] Georgalis on Intentional Objects in psychological explanation. Southern Society for Philosophy of  
 Psychology, New Orleans (April 9, 2004)
- [3] Polger on Multiple Realizability. APA Central Division Meeting, Chicago (April 29, 2005)
- [4] Cesarz on Leibniz, McTaggart and Broad? APA Eastern Division Meeting, New York (December 27,  
 2005)
- [5] Comments on J-P Vessel's "Defending a Possibilist Insight in Consequentialist Thought." New  
 Mexico – West Texas Philosophical Association, Las Cruces (April 7, 2006)
- [6] Comments on Bill Springer's "Aristotle on Substantial Change" Departmental Colloquium,  
 University of Texas at El Paso (November 11, 2008)
- [7] Comments on Susanna Badiola's "Necessity and the apriori" New Mexico West Texas Philosophical  
 Society, Abilene (March 26, 2010)
- [8] Comments on Pablo Zavala's "Ideally Necessary Laws" New Mexico West Texas Philosophical  
 Society, El Paso (April 9, 2011)

- [9] Comments on Joseph Ulatowski's "Taking Ordinary Intuitions Seriously" New Mexico West Texas Philosophical Society, El Paso (March 25, 2012)
- [10] Comments of Derek McAllister's "Did Gettier Give Us Justified True Belief? What Does Smith Really Believe?" APA Eastern Division Meeting, Atlanta (December 30, 2012)
- [11] Comments on Andrew Higgins' "The Special Composition Question and the Question of Novel Existence." Kansas Philosophical Society Meeting, Kansas State University (February 15, 2014)

### **Presentations on teaching and learning**

- [1] 'Evaluating Interdisciplinary Student Work.' Sun Conference on Teaching and Learning, El Paso (March 9, 2002)
- [2] 'Some advice on preparing your work for publication' 3rd Annual Graduate Student Conference in Philosophy, History of Ideas and History of Science. The Institute of Philosophy and Religious Studies, The University of Southern Denmark – Odense (December 3, 2004)
- [3] 'Big science, hyper-specialization and interdisciplinarity' Minority Access to Research Careers Seminar, University of Texas at El Paso (April 21, 2005)
- [4] 'Arguing with 400 people: philosophy in the age of mass education' 2006 International SUN Conference on Teaching and Learning, El Paso (March 3, 2006)
- [5] 'Maintaining High Intellectual Standards in Very Large Classes' Center for Excellence in Teaching and Learning, UTEP, Large Class Academy (August 9, 2006)
- [6] 'Majoring in Philosophy at UTEP' Presentation to College of Liberal Arts advising group, UTEP (October 13, 2006)
- [7,8] 'Applying to Graduate Programs in Philosophy'  
Workshop for UTEP Philosophy Students (April 11, 2007)  
Workshop for UTEP Philosophy Students (May 5, 2008)
- [9] 'Pedagogy and content in teaching the history of 19th century mathematics in the secondary education geometry curriculum' With Marie De Billie and Olga Kosheleva. Third International College of Education Summer Research symposium. Cruzando Fronteras, El Paso TX (June 18-19, 2007)
- [10] 'Teaching Large Introductory Courses Effectively: Collaborating with teaching assistants, incorporating technology and developing team-based learning.' With Juan Ferret. Workshop presentation for the Center for Excellence in Teaching and Learning, UTEP (April 25, 2008)
- [11,12] 'Evaluating evidence, justifying arguments, reasoning about risks, and understanding relationships'  
CETAL enhanced Student Learning workshop 4, UTEP (November 9, 2009)  
CETAL enhanced Student Learning workshop 4, UTEP (January 28, 2011)

## TEACHING

### Introductory Level Courses

Introduction to Philosophy (UTEP), Logic (UTEP), Reason and Argument (KU)

### Upper Division Courses

Modern Philosophy (UTEP), 19th Century Philosophy, 20th Century Philosophy, American Philosophy, Environmental Ethics (Boston University), Philosophy of Mind (Boston University and UTEP), Minds and Machines (Emerson College), Animals (Emerson College), Philosophy of Psychology (UTEP), Metaphysics (UTEP and KU), Philosophy of Science (UTEP), Social Philosophy (UTEP), Quine (UTEP)

### Graduate Seminars

Philosophy of Biology (UTEP), Vision (UTEP), Emergence (Peking University and UTEP) Philosophical Methods, Proseminar 1: Philosophical Research and Writing (UTEP) Topics in Metaphysics: Emergence (KU)

### Dissertation supervision:

- [1] Andrew McFarland, *Metaphysics and natural kinds: slingshots fundamentality and causal structure*  
Philosophy, University of Kansas, Spring 2014 (Currently Visiting Assistant Professor at Kansas State University)
- [2] Brian Clarke, *Moore's Paradox*  
Philosophy, University of Kansas, Expected Spring 2015

### Other Dissertation Supervision

- [1] Erich Rast, *Reference and Indexicality*  
Department of Philosophy, Roskilde University Fall 2006 (Assessment Committee Member/Opponent)
- [2] Gabriela Duran, *The Influence of Prefrontal Cortex and Top-Down Processing on Object Recognition*  
Psychology. University of Texas at El Paso Summer 2009 (Committee Member)
- [3] Alicia Coram, *Patterns in Mind: Systematicity in the Extended Mind*  
Philosophy, University of Melbourne Spring 2014 (External Evaluator)
- [4] Sean Meseroll, *Happiness and Welfare*  
Spring 2014 Philosophy, University of Kansas (Committee Member)
- [5] Joao Araujo, *Nonlinearity and Ontology in Physics*.  
Department of History and Philosophy of Science, Lisbon University. (in progress) (Committee Member)
- [6] Dongsheng Zhang, *Modeling Critical Node Attacks in Mobile Wireless Networks*  
Electrical Engineering & Computer Science University of Kansas (in progress) (Committee Member)
- [7] Justin Clarke, *The Primitive Thesis: Defending a Davidsonian Conception of Truth* (in progress) (Committee Member)

### **Post-doctoral supervision**

- [1] Gil Costa Santos. *Emergence, mechanism and non-linearity*.  
Center for Philosophy of Science, University of Lisbon.
  
- [2] João L Cordovil. *Caracterização de uma ontologia relacional e dinamista das entidades físicas*.  
[Characterizing a relational and dynamical ontology of physical entities.]  
Center for Philosophy of Science, University of Lisbon.

### **References**

Available upon request