

Form 100 Contributions

Jim Davies

PUBLICATIONS

(Note on publications: in computer science, my primary discipline, the main venue for publication is the peer-reviewed conference proceedings paper, and the lab's primary investigator is traditionally the last author.)

Books Published

Davies, J. (2014). [*Riveted: The Science of Why Jokes Make us Laugh, Movies Make Us Cry, and Religion Makes Us Feel One with the Universe*](#). Palgrave Macmillan.

Articles in Peer-Reviewed Journals

Chowdhury, W., Akkaoui, A., Burt, C. & **Davies, J.** (2015). [Quanty: An online game for eliciting the wisdom of the crowd](#). *Computers in Human Behavior*. 49, 213—219.

Cockbain, J., Vertolli, M. & **Davies, J.** (2013). [Creative imagination is stable across technological media: The Spore Creature Creator versus pencil and paper](#). *The Journal of Creative Behavior*, 48(1), 13—24.

Gagné, J. & **Davies, J.** (2013). [Visuo: A model of visuospatial instantiation of quantitative magnitudes](#). *Knowledge Engineering Review. Special Issue on Visual Reasoning*, 2(28). 1–20.

Davies, J., & Matheson, D. (2012). [The cognitive importance of testimony](#). *Principia: The International Journal of Epistemology*. 16(2), 297-318.

Davies, J., Atance, C. & Martin Ordas, G. (2011). [A framework and open questions on imagination in adults and children](#). *Imagination, Cognition, and Personality*, Special issue on mental imagery in children. 31:1-2, 143-157.

Davies, J., Goel, A. K., & Nersessian, N. J. (2009). [A Computational Model of Visual Analogies in Design](#). *Cognitive Systems Research: Special Issue on Analogies*, 10, 204-215.

Articles in Peer-Reviewed Conference Proceedings

Stapleton, C., Mott, D., Whiteside, J., Vick, J., & **Davies, J.** (2014). [Transforming lives through story immersion: Innovation of aphasia rehabilitation through storytelling learning landscapes](#). *Immersive Media Experiences 2014*. Orlando, Florida. Nov 3-7.

Vertolli, M. O. & **Davies, J.** (2014). Coherence Net: A new model of generative cognition. 6th International Conference on Evolutionary Computation Theory and Applications (ECTA-2014).

Davies, J. & McManus, M. (2014). [How our desire for social information affects tastes in paintings and belief systems](#). In Kozbelt, A. (Ed.), *Proceedings of the Twenty-Third Biennial Congress of the International Association of Empirical Aesthetics*, (153—158). (IAEA-14) New York, NY: International Association of Empirical Aesthetics.

Vertolli, M. O., Kelly, M., & **Davies, J.** (2014). Compression and decompression in cognition. *Artificial General Intelligence (AGI-2014)*. 262—265.

Vertolli, M. O., Breault, V., Ouellet, S., Somers, S. Gagné, J., & **Davies, J.** (2014). Theoretical assessment of the SOILIE model of the human imagination. *Proceedings of the 36th Annual Meeting of the Cognitive Science Society (CogSci-2014)*. 3043—3048.

Vertolli, M. O. & **Davies, J.** (2014). Coherence in the visual imagination: Local hill search outperforms Thagard's connectionist model. *Proceedings of the 36th Annual Meeting of the Cognitive Science Society (CogSci-2014)*. 1676—1681.

Davies, J. (2013). Don't waste student work: Using classroom assignments to contribute to online resources. *Proceedings of the Cognition and Exploratory Learning in Digital Age conference (CELDA-13)*. Fort Worth, Texas. October 22-24, 2013. 1—4.

Breault, V., Ouellet, S., Somers, S. & **Davies, J.** (2013). [SOILIE: A computational model of 2D imagination](#). In R. West & T. Stewart (eds.), *Proceedings of the 12th International Conference on Cognitive Modeling*, Ottawa: Carleton University. 95—100.

Davies, J. & Francis, A. G. (2013). [The role of artificial intelligence research methods in cognitive science](#). In R. West & T. Stewart (eds.), *Proceedings of the 12th International Conference on Cognitive Modeling*, Ottawa: Carleton University. 439—444.

Ouellet, S., Somers, S., & **Davies, J.** (2013). [High-level representation of 3D models of buildings](#). In R. West & T. Stewart (eds.), *Proceedings of the 12th International Conference on Cognitive Modeling*, Ottawa: Carleton University. 408—413.

Ouellet, S. & **Davies, J.** (2013). [Using prepositions to describe three-dimensional scenes: A model of spatial relation apprehension and interference](#). In R. West & T. Stewart (eds.), *Proceedings of the 12th International Conference on Cognitive Modeling*, Ottawa: Carleton University. 209—214.

Vertolli, M. O. & **Davies, J.** (2013). [Visual imagination in context: Retrieving a coherent set of labels with Coherencer](#). In R. West & T. Stewart (eds.), *Proceedings of the 12th International Conference on Cognitive Modeling*, Ottawa: Carleton University. 263—268.

Li, H., Mould, D. & **Davies, J.** (2013): [Structure and aesthetics in non-photorealistic images](#). In *Proceedings of Graphics Interface 2013*, Regina, Saskatchewan, pp 181-188.

Davies, J. & Fortney, M. (2012). [The menton theory of boredom and engagement](#). *Proceedings of the First Annual Conference on Advances in Cognitive Systems*. 131–143.

Somers, S., Gagné, J., Astudillo, C., & **Davies, J.** (2011). [Using semantic similarity to predict angle and distance of objects in images](#). *The ACM Conference on Creativity & Cognition, 2011*. 217-222.

Stapleton, C., & **Davies, J.** (2011). [Imagination: The third reality to the virtuality continuum](#). *2011 IEEE International Symposium on Mixed and Augmented Reality*. (ISMAR-2011). 53-60. Basel, Switzerland.

Schoenherr, J., Thomson, R. & **Davies, J.** (2011). [What makes an explanation believable?: Mechanistic and anthropomorphic explanations of natural phenomena](#). *The Thirty-Third Annual Meeting of the Cognitive Science Society (COGSCI-11)*, 1424-1429.

Davies, J. & Gagné, J. (2010). [Estimating quantitative magnitudes using semantic similarity](#). *Conference of the American Association for Artificial Intelligence workshop on Visual Representations and Reasoning (AAAI-10-VRR)* 14--19.

Davies, J. & Yaner, P. W. (2010). [Analogical mapping through visual abstraction](#). *The Annual Conference of the Cognitive Science Society (CogSci 2010)*, 1553—1558.

Bell, J. & **Davies, J.** (2010). Pixel graphs are better at representing large quantities of information than pie graphs. *Theory and Application of Diagrams*, 288-291.

Smith, C., Van Bentham, K., Nuttall, J., Musca, J., MacDougall, K., Miller, X., Li, J., Fitzpatrick, J., Di Noia, N., Cybulskie, A., & **Davies, J.** (2010). [Modeling English spatial preposition detectors](#). *Theory and Application of Diagrams (Diagrams-2010)*, 328—330.

Gagné, J. & **Davies, J.** (2009). [Analogical estimation of quantitative magnitudes](#). *New Frontiers of Analogy Research: Proceedings of Analogy 09*, 155-164, Sophia, Bulgaria.

Thomson, R. & **Davies, J.** (2009). [Distance estimation as a process of generating Ad-Hoc Metrical Systems](#). *Proceedings of the Thirty-First Annual Conference of the Cognitive Science Society*. 2932-2937.

Davies, J. (2009). [Experience-based reasoning as the basis of a general artificial intelligence architecture](#). *IJCAI Workshop on Grand Challenges for Reasoning from Experiences*. 1-6. Pasadena, California, July 11, 2009.

Chapters in Peer-Reviewed edited books

Davies, J. (2014). [Don't waste student work: Using classroom assignments to contribute to online resources](#). Chapter 19 in [E-Learning systems, environments, and approaches: Theory and implementation](#). Edited by P. Isaias, J. Michael Spector, D. Ifenthaler and D.

G. Sampson. Springer: New York. 277-285.

Invited Book Chapters

Goel, A. K. & **Davies, J.** (2011). [Artificial Intelligence](#). In S. B. Kaufman and R. Sternberg (Eds.) *The Cambridge Handbook of Intelligence* (3rd Edition).

Published Peer-Reviewed Abstracts

Ouellet, S., Lang, H., MacQuarrie, L., McManus, M., & **Davies, J.** (2012). 3D SPACE: 3D spatial prepositions analysis and comprehension engine. *Psychology Outside the Box* 2012. Abstract 47.

Invited Encyclopedia Entries

Davies, J. (2013). Imagination. *Encyclopedia of Creativity, Invention, Innovation, and Entrepreneurship*. 899—902.

Book Reviews

Davies, J. (2015). What good can we do? A review of *The Most Good You Can Do: How Effective Altruism Is Changing Ideas about Living Ethically* by Peter Singer. *Skeptic*, 20(3), 54—55.

INVITED PAPERS PRESENTED

Davies, J. (2015). *Engaging Yourself to Engage Students*. Teaching Assistant Training Day Keynote Speech. September 12.

Davies, J. (2015). *Creativity and Imagination*. Big Ideas Conference, Statistics Canada, July 21.

Davies, J. (2015). [Imagining Your Future](#). TEDxCarletonU, April 6.

Davies, J. (2014). *Do we appreciate religions for the same reasons we appreciate art?* University of Toronto Interdisciplinary Symposium of the Mind (UTism), October 26.

Davies, J. (2014). *Enhancing Creative Imagination*. The Conference on Canadian Content in Speculative Arts and Literature. (CAN-CON2013). October 4.

Davies, J. & Hellemans, K. (2014). *Creating Concept Questions to Increase Engagement and to Improve Learning*. Society for Teaching and Learning in Higher Education (STLHE-2014).

Davies, J. (2014). *Enhancing creative imagination*. Lunch & Learn Food For Thought Creativity and Design Thinking Series. MacOdrum Library, Carleton University, February 28.

Davies, J. (2014). *The Science of Imagination*. Keynote presentation at Techfest 2014, Mumbai, India.

Davies, J. (2013). *Imagination and Artificial Intelligence*. The Conference on Canadian Content in Speculative Arts and Literature. (CAN-CON2013). October 5.

Davies, J. (2013). *Metaphor in visualization and interaction design*. Canadian Visual Analytics Summer School (CANVAS2013), July 17.

Davies, J. (2013). *Don't Waste Student Work*. Teaching Showcase of the Fall 2013 Carleton Faculty Orientation.

Davies, J. & Hellemans, K. (2013). *Peer Instruction: Concept Questions Workshop*. Carleton University Educational Development Centre.

Davies, J. (2013). *Don't Waste Student Work*. *Canadian Network for Innovation in Education (CNIE-2013)*. May 1–3, Ottawa, Ontario.

Davies, J. (2012). *Riveted: Why We Love Art, Products, and Ideas*. Pecha Kucha Ottawa #5, June 12.

Davies, J. (2011). *Don't Waste Student Work*. TEDxOttawa, October 22.

Davies, J. (2010). *The Science of Imagination*.
Pacific Northwest National Laboratories, August 16.
[Google](#) (Mountain View Campus), August 3.
[TEDxCarletonU](#), March 30.

Davies, J. (2010). *A Vision for the Science of Imagination*. A. Louis Medin Modeling & Simulation Seminar Series and Cognitive Sciences Student Association at the University of Central Florida Visiting Scholar Series. Talk, panel discussion, student forum. February 16.

Davies, J., & Gagné, J. (2010). *Visuo: A Model of Visuospatial Instantiation of Quantitative Magnitudes*. National Research Council Canada Featured Speaker. January 22.

Davies, J. (2009). *Using Assignments for Web Educational Materials*. Part of the Carleton University Educational Development Centre Classroom Strategies: "One Cool Thing I'm Doing..." December 8.

Davies, J. (2009). [Don't waste student work: Using class assignments to further research and wider educational goals](#). Carleton University Educational Development Centre *Teaching Technology Roundtable*, September 25.