

Sébastien Ouellet

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Education

M.Sc. in Computer Science	Université de Montréal 2013 – expected September 2015
B.A. Honours in Cognitive Science, specialization in Cognition and Computation	Carleton University 2010 - 2013
High school diploma	Collège de Sainte-Anne-de-la-Pocatière

Research experience

Intelligent video game development Educational video game with user monitoring (EEG, eye tracking, facial expression)	JVI Laboratory, Dr. Claude Frasson Université de Montréal 2014-2015
Tridimensional spatial concepts detectors Artificial intelligence identifying spatial concepts in 3D models of buildings	NSERC Engage Grant, Dr. Jim Davies et CAE Inc. Carleton University 2011
Winter semester research internship Image retrieval and display for a visual scene generator	I-CUREUS research award, Dr. Jim Davies Carleton University 2011
Science of Imagination Laboratory member	Carleton University 2010 - 2013
Summer research in computational biophysics Molecular dynamics simulation of lipid bilayer vesicles	NSERC-CREATE research award, Dr. Béla Joós University of Ottawa 2009

Publications

- Ghali, R., **Ouellet, S.**, & Frasson, C. (2015). LewiSpace: An Educational Puzzle Game Combined with a Multimodal Machine Learning Environment. In *KI 2015: Advances in Artificial Intelligence*. Springer.
- Ghali, R., **Ouellet, S.**, & Frasson, C. (2015). Classification and Regression of Learner's Scores in Logic Environment. *Journal of Education and Training Studies*, 3(5), 242-253.

Ghali, R., **Ouellet, S.**, & Frasson, C. (2016). Using Electrophysiological Features in Cognitive Tasks: An Empirical Study. *International Journal of Information and Education Technology*, 6(8), 584-590.

Vertolli, M. O., Breault, V., **Ouellet, S.**, Somers, S., Gagné, J., & Davies, J. (2014). Theoretical assessment of the SOILIE model of the human imagination, In *Proceedings of the 36th International Conference of the Cognitive Science Society, Quebec City, QC: Cognitive Science Society*.

Ouellet, S., & Davies, J. (2013). Using Relations to Describe Three-Dimensional Scenes: A Model of Spatial Relation Apprehension and Interference. In *Proceedings of the 11th International Conference on Cognitive Modeling, Ottawa: Carleton University*.

Ouellet, S., Somers, S., & Davies, J. (2013). High-level representation of 3D models of buildings. In *Proceedings of the 11th International Conference on Cognitive Modeling, Ottawa: Carleton University*.

Breault, V., **Ouellet, S.**, Somers, S., & Davies, J. (2013). SOILIE: A Computational Model of 2D Visual Imagination. In *Proceedings of the 11th International Conference on Cognitive Modeling, Ottawa: Carleton University*.

Joós, B., Bertrand, M., & **Ouellet, S.** (2010). Vesicle extrusion in nanopores. *Bulletin of the American Physical Society March Meeting 2010*, (abstract #A12.00015). Portland, OR.

Work experience (excluding research)

Teaching assistant, 2 courses OOP/Java programming and Client-side programming	Université de Montréal September 2013 – December 2014
Summer student – Web team	Canada Council for the Arts April 2013 – August 2013
French copy editing	Dr. Erik Anonby, Carleton University April 2011 – July 2013
Chess teacher at Mont-Bleu elementary school	Chess'n Math Association February 2008 – March 2009, part-time

Related skills

Programming languages	Python, C#, JavaScript, Java, C/C++, Scheme
Specific interests	Artificial intelligence, Machine learning, Evolutionary computation, HCI.
Software packages and libraries	Scikit-learn, OpenCV, CUDA, PyGame, Unity, Node.js, jQuery, SciPy, Matplotlib, Git, ESPResSo, LAMMPS, Office
Fluency in both French and English	