



Christopher Paul Marriott

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EDUCATION

University of Calgary

Doctorate in Computer Science and Philosophy — 2004-2009
Dissertation: Folk psychology, cognitive ethology, and artificial agents
Concentration: Artificial minds, consciousness
Committee: James Parker, Jörg Denzinger, John Baker

University of Calgary

Masters in Computer Science — 2001-2004
Thesis: Non-determinism and Quantum Information
Concentration: Quantum computing, complexity theory
Committee: John Watrous, Peter Høyer, Hugh Williams

University of Calgary

Bachelors of Science in Computer Science — 1996-2001
Concentration: Algorithms, theoretical computer sciences, and pure math

University of Calgary

Bachelors of Arts in Philosophy — 1996-2001
Concentration: Ethics, epistemology, logic, and philosophy of mind

TEACHING EXPERIENCE

Instructor, University of Calgary

Calgary, Alberta — 2004, 2006-2008, 2011-2012
Contract teaching duties spanning courses from every year of the computer science degree program and courses for non-majors.

Courses Taught

- Introduction to Problem Solving with Application Software
- Introduction to the Theory of Computation
- Design and Analysis of Algorithms
- Information Structures III
- Introduction to Complexity Theory

Instructor, University of Waterloo

Waterloo, Ontario — 2009-2010
Contract teaching duties spanning courses from the first three years of the computer science degree program.

Courses Taught

- Elementary Algorithm Design and Data Abstraction
- Data Structures and Data Management
- Introduction to the Theory of Computation
- Object-Oriented Software Development

RESEARCH EXPERIENCE

Postdoctoral Researcher, Universidad Nacional Autonoma de Mexico

Mexico City, Mexico— 2011

Postdoctoral research in self-organizing systems.

Projects

- Polyethism and heterogeneity in artificial and natural colonies
- Crowd dynamics in public transportation systems
- Golem: Autonomous Robot

PUBLICATIONS

Quantum Arthur-Merlin Games (preliminary version with John Watrous) CCC'04 Conference on Computational Complexity: 275-285, 2004.

Quantum Arthur-Merlin Games. (with John Watrous) Computational Complexity, 14(2), 122-152, 2005.

Imitation as a mechanism of cultural transmission. (with James Parker and Jörg Denzinger) Artificial Life, 16(1): 21-37, 2010.

Polyethism in a colony of artificial ants. (with Carlos Gershenson) ECAL'11 European Conference on Artificial Life, 2011.

REFERENCES

John Watrous - watrous@cs.uwaterloo.ca

Joerg Denzinger - denzinge@cpsc.ucalgary.ca

Jalal Kawash - jalal.kawash@gmail.com

Jim Parker - jparker@ucalgary.ca