# Jamie F. Olson

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| CONTACT INFORMATION | School of Computer Science<br>5000 Forbes Ave.<br>Pittsburgh, PA 15213 | *Phone:* (715) 497-4503<br>*E-mail:* jfolson@cs.cmu.edu<br>*WWW:*cs.cmu.edu/~olsonja/ |

**RESEARCH INTERESTS**

Artificial Intelligence, Artificial Life, Social modeling/simulation, Agent-based modeling, Game theory, Evolution of complex behaviors, Dynamic network analysis

**EDUCATION**

**Carnegie Mellon University**, Pittsburgh, Pennsylvania USA

*School of Computer Science*
  PhD, Carnegie Mellon University                                    **June 2012**(Expected)

**Carleton College**, Northfield, Minnesota USA

  B.A., Computer Science and Cognitive Science                          **June 2007**
  - Coursework in: Database Systems, Artificial Intelligence, Natural Language Processing, Machine Learning, Discrete Math, Probability, Statistics, Computer Architecture.
  - National Merit Scholar
  - Mary Cravath Wharton Scholar
  - GPA: 3.573

**EXPERIENCE**

**Carnegie Mellon University**, Pittsburgh, Pennsylvania USA

*Research Assistant, Institute for Software Research*              **August, 2007 - present**
  Research and develop algorithms and metrics for geo-spatially enabled network analysis
  - Algorithm design
  - Software development

**Carleton College**, Northfield, Minnesota USA

*Research Assistant, Computer Science Department*              **June, 2006 - June, 2007**
  Researcher and software developer for EDAM-ENCHILADA Environmental Chemistry project.
  - Algorithm development
  - Database design research
  - Development of a Java chart/plot library

*Course Grader, Computer Science Department*                  **January - March, 2006**
  Graded written and programming assignments for an advanced algorithms course.
  - CS227 Algorithms II

*Research Assistant, Computer Science Department*              **June, 2005 - June, 2006**
  Researcher for multimedia data mining project.
  - Algorithm development and implementation

*Laboratory Assistant, Computer Science Department*           **June, 2005 - June, 2006**
  Laboratory assistant for introductory computer science courses.

*Teaching Assistant, Computer Science Department*          **September, 2004 - June, 2005**
  Duties at various times have included office hours and leading weekly study programs.

**LEADERSHIP AND ACTIVITIES**

*Member, Carleton Robotics Club*                              **January, 2004 - present**
  Director of programming(Fall 2004-Spring 2005)
  Attended and participated in the Trinity Firefighting Competition

**PUBLICATIONS**

David R. Musicant, Janara M. Christensen, Jamie F. Olson. *Supervised Learning by Training on Aggregate Outputs.* In Proc. Seventh IEEE International Conference on Data Mining, IEEE Press, 2007.

A. Csizmar Dalal and J. Olson. *Feature Selection for Prediction of User-Perceived Streaming Media Quality.* In Proc. 2007 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), San Diego, California, July 2007.

A. C. Dalal, D. Musicant, J. Olson, B. McMenamy, S. Benzaid, B. Kazez, and E. Bolan. *Predicting User-Perceived Quality Ratings from Streaming Media Data*, in Proc. IEEE International Conference on Communications, June 2007.(forthcoming)

POSTERS AND PRESENTATIONS

J. Olson and L. Steinberg. (2006, August). EDAM-ENCHILADA: Environmental Chemistry through Intelligent Data Analysis. ACM SIGKDD 2006 Software Demo, Philadelphia, PA.

J. Olson.(2006, March). *Using Dynamic Time Warping and a Variation to Predict Perceived User Quality of Multimedia Streams.* [Poster Session]. In Association of Computing Machinery Special Interest Group Computer Science Education 2006, Houston, TX.

J. Olson and G.Kachergis. (2006, April). Lexical Variety in Human Processing of Syntactically Ambiguous Sentences. In Minnesota Undergraduate Psychology Conference, St. Paul, MN.

COMPUTER SKILLS

- Mathematical/Statistical Packages: Octave, Mathematica, R, S-Plus, SPSS
- Languages: Java, Lisp, Ruby, Scheme, C++, Python, Perl, html, php, javascript, bash/sh scripting
- Applications: LaTeX, MySQL, PostreSQL, MS SQL Server 2000, common Windows word processing, spreadsheet, and presentation software
- Operating Systems: Unix/Linux, Windows XP, Mac OS X.