

Mary McGlohon

CONTACT INFORMATION Machine Learning Department *Voice:* (412) 532-6279
Carnegie Mellon University *Fax:* (412) 268-5576
5000 Forbes Avenue *E-mail:* mmcglho@cs.cmu.edu
Pittsburgh, PA 15213 USA *WWW:* www.cs.cmu.edu/~mmcglho

OBJECTIVE To obtain a position that will enable me to use my research background in data mining and machine learning for social networks to solve real-world problems.

EDUCATION **Carnegie Mellon University**, Pittsburgh, Pennsylvania USA
Ph.D. Candidate, Machine Learning, expected graduation date: August 2010.
Dissertation Topic: “Structural Analysis in Large Networks: Observations and Applications”.
Proposal: April 2009.
Thesis Advisors: Christos Faloutsos, Alan Montgomery.
M.S. in Machine Learning, May 2008. GPA: 3.84

University of Tulsa, Tulsa, Oklahoma USA
B.S., Computer Science, May 2005. GPA: 3.93, Magna Cum Laude
B.S., Mathematics, May 2005.
Minor: Physics

INDUSTRIAL EXPERIENCE **Google, Inc.**, Pittsburgh, Pennsylvania USA
Software Engineering Intern **May 2009 - August 2009**
Analysis of data crawled from online review sites, with the goal of improving Product Search’s ranking of products and merchants. Results under review for publication. Under supervision of Natalie Glance.

Microsoft Live Labs, Bellevue, Washington USA
Research Intern **May 2008 - August 2008**
Analyzed link patterns and diffusion in a large data set from social media. Results published in ICWSM 2009. Under supervision of Matthew Hurst.

PricewaterhouseCoopers Center for Advanced Research, San Jose, California USA
Analytics Specialist **June 2007 - August 2007**
Projects consisted of 1) detecting accounting errors using classification methods, and 2) using link analysis to detect fraud in subledger data. Work extended and published in KDD 2009. Under supervision of David Steier and Stephen Bay.

ACADEMIC EXPERIENCE **Carnegie Mellon University**, Pittsburgh, Pennsylvania USA
Graduate Student **August, 2005 - present**
Includes current Ph.D. research, graduate level coursework and research projects.

Teaching Activities

- Teaching Assistant for 15-381, Intro. to Artificial Intelligence. Fall 2009. Designed and graded assignments and exams, held office hours. Instructors: Manuela Veloso and Luis von Ahn.
- Teaching Assistant for 10-601, Machine Learning. Spring 2008. Presented recitation lectures, designed and graded assignments and exams, held office hours, advised student research projects. Instructors: Tom Mitchell and William Cohen.

- Teaching Development through CMU Eberly Center for Teaching. Attended several seminars on teaching-related topics, had recitation lectures evaluated by Eberly staff, participation in college teaching course centered on curriculum and assessment design. Reference: Michele DiPietro.

University of Tulsa, Tulsa, Oklahoma USA

Undergraduate Research Assistant

April 2003 - May 2005

Included programming in various environments, collaboration with graduate students, devising algorithms, paper authoring and presentations, in the fields of artificial intelligence and applied math.

Undergraduate Teaching Assistant

October 2003 - May 2005

Duties included recitations, guest lectures, office hours, and grading for lower-level math courses, 4 semesters.

HONORS AND AWARDS

- Yahoo! Key Technical Challenges Grant, 2008.
- National Science Foundation Graduate Research Fellowship, 2005.
- University of Tulsa: Honors Program, Presidential Scholar, 2005.
- Best Student Paper Award, World Conference on Lateral Computing, 2004.

SELECTED PUBLICATIONS

For full list, please see <http://www.cs.cmu.edu/~mmcgloho>

- M. McGlohon, S. Bay, M. Anderle, and C. Faloutsos. *SNARE: A Link Analytic System for Graph Labeling and Risk Detection*. ACM Special Interest Group on Knowledge Discovery and Data Mining (SIGKDD), Paris, France. June 2009.
- M. McGlohon and M. Hurst. *Community Structure and Information Flow in Usenet: Improving analysis with a thread ownership model*. International Conference on Weblogs and Social Media (ICWSM). San Jose, Calif. May 2009.
- M. McGlohon, L. Akoglu, and C. Faloutsos. *Weighted Graphs and Disconnected Components: Patterns and a Generator*. ACM Special Interest Group on Knowledge Discovery and Data Mining (SIGKDD), Las Vegas, Nev., August 2008.
- J. Leskovec, J. M. McGlohon, C. Faloutsos, N. Glance, and M. Hurst. *Patterns of Cascading Behavior in Large Blog Graphs*. Society of Industrial and Applied Mathematics- Data Mining. Minneapolis, Minn., April 2007.
- M. McGlohon, N. Glance, and Z. Reiter. *Star Quality: Aggregating Reviews to Rank Products and Merchants*. Under review.

OTHER ACTIVITIES AND INFORMATION

Citizenship: USA.

Programming Languages and Frameworks: Java, C++, C#, Python, Matlab, R, MapReduce, Hadoop, JUnit.

Invited talks and tutorials: Lawrence Livermore National Labs, Sandia National Labs, University of Washington, ICWSM 2008, NESCAI 2008, PricewaterhouseCoopers, Microsoft Live Labs.

PC member: ICWSM 2010. **External reviewer:** KDD 2007, WWW 2008, ICWSM 2008, SocialCom 2009, ICWSM 2009, WSDM 2010, ACM TWeb, IEEE Intelligent Systems.

Departmental Service: Admissions Committee, 2010; Steering committee for Machine Learning Department Symposium, 2009; Organizer for Databases/Data Mining Seminar, 2008 - 2009; Member of Dec/5, organizing committee for School of Computer Science graduate student events, 2006 to date; Host for department Open House for prospective students, 2006 - 2009.

Satirical machine learning papers: (SIGBOVIK) "Fried Chicken Bucket Processes," "Data Mining Disasters: A Report," and "MapReuse and MapRecycle: Two More Frameworks for Eco-Friendly Data Processing".

References available upon request.