ERIC THOMAS HEIM

210 South Bouquet Street
5406 Sennott Square
Pittsburgh, PA 15213
Email: eric@cs.pitt.edu
Website: people.cs.pitt.edu/~eth13

RESEARCH INTERESTS

My research interests revolve around the study and development of practical machine learning and data mining techniques that can accurately model human intuition about how data objects relate. Fundamental to the vast majority of intelligent systems is the ability to compare objects in a way suitable for a task. Humans are often able to provide unique insight into many tasks that is difficult to gain from raw data alone. This necessitates models learned from human feedback that can be used in intelligent systems. The challenges in undertaking this endeavor are both human and computational in nature. My work considers these challenges in order to learn useful, human models of similarity.

EDUCATION

PhD. in Computer Science	**M.S. in Computer Science**	**B.S in Computer Science**
Advisor: Milos Hauskrecht	Advisor: Milos Hauskrecht	Minor in Mathematics
University of Pittsburgh	University of Pittsburgh	Kutztown University
Pittsburgh, Pennsylvania	Pittsburgh, Pennsylvania	Kutztown, Pennsylvania
January 2011–Present	August 2009–December 2010	September 2005–May 2009

RESEARCH AND ACADEMIC AWARDS

American Society of Engineering Education SMART Scholarship, 2013–Present
University of Pittsburgh Computer Science Day Research Competition Winner, 2013
National Library of Medicine Predoctoral Fellowship, 2012
Community Scholars Award, 2006–2008

PUBLICATIONS

[C15a]   Eric Heim, Matthew Berger, Lee M. Seversky, Milos Hauskrecht, "Efficient Online Relative Comparison Kernel Learning," to appear in *Proceedings of the 2015 SIAM International Conference on Data Mining (SDM15)*, 2015.

[C14a]   Eric Heim, Hamed Valizadegan, Milos Hauskrecht, "Relative Comparison Kernel Learning with Auxiliary Kernels," in *Machine Learning and Knowledge Discovery in Databases*, volume 8724 of *Lecture Notes in Computer Science*, pages 563–578, Springer Berlin Heidelberg, 2014.
         Presented at the 2014 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD 2014)

TEACHING EXPERIENCE

Instructor
CS0007: Introduction to Programming, Summer 2011
CS0004: Introduction to Programming-Basic, Spring 2011
CS0134: Web Site Design & Development, Fall 2010

Teaching Assistant
CS0441: Discrete Structures, Spring 2012
CS0007: Introduction to Programming, Fall 2011

WORK EXPERIENCE

Research Intern, Air Force Research Laboratory/Information Directorate, Rome, New York
June 2012–August 2012, June 2014–August 2014

Software Engineering Intern, Wellspring Worldwide, Pittsburgh, Pennsylvania
May 2010-December 2010