

DEBORAH CHASMAN

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OBJECTIVE

I am working toward my Ph.D. in Computer Science, with a graduate minor including coursework in biological sciences. My research interests are in machine learning, artificial intelligence, and biomedical informatics.

EDUCATION

IN PROGRESS	PhD, Computer Sciences	University of Wisconsin–Madison
DECEMBER 2009	MS, Computer Sciences	University of Wisconsin–Madison
JUNE 2007	BA <i>magna cum laude</i> , Computer Science	Carleton College, Northfield, MN

RESEARCH EXPERIENCE

2008–PRESENT	Research Assistant, Depts. of Computer Sciences, Biostatistics and Medical Informatics University of Wisconsin–Madison Designing methods to explain observations gathered from genome-wide mutant assays. ADVISOR: Mark Craven
SUMMER 2010	Research Intern, Biomedical Informatics Research Center Marshfield Clinic Research Foundation, Marshfield, WI Research project in electronic phenotyping of electronic health records. MENTOR: Luke Rasmussen
SUMMER 2006	Undergraduate Research Assistant, Minnesota Supercomputing Institute University of Minnesota–Twin Cities Investigating algorithms to extract stream networks from Digital Elevation Models. ADVISOR: Efi Foufoula-Georgiou

OTHER EXPERIENCE

2007–2008	Teaching Assistant, Dept. of Computer Sciences at University of Wisconsin–Madison SUPERVISOR: Beck Hasti
2005–2007	Laboratory Assistant, Dept. of Computer Science at Carleton College SUPERVISOR: Michael Tie

HONORS AND SCHOLARSHIPS

2008–2011	Predocorial Fellow, Computation and Informatics in Biology and Medicine Training Program Interdisciplinary training program sponsored by the National Library of Medicine.
JUNE 2007	Awarded distinction in undergraduate major and senior comprehensive exercises.

PUBLICATIONS AND PRESENTATIONS

DEBORAH CHASMAN, BRANDI GANCARZ, LINHUI HAO, DAVID BERRY, AUDREY GASCH, PAUL AHLQUIST, AND MARK CRAVEN. Finding consistent explanations for observations from genome-wide mutant assays. Poster presentation. ISCB Student Symposium and ISMB conference, July 2011.

DEBORAH CHASMAN, BRANDI GANCARZ, PAUL AHLQUIST, AND MARK CRAVEN. Explaining effects of host gene knockouts on Brome Mosaic Virus replication. Workshop on Abductive and Inductive Knowledge Development at IJCAI, July 2009.

OTHER SKILLS AND QUALIFICATIONS

- Programming experience: Java, Python, C#, C.
- Advanced coursework: machine learning, artificial intelligence, bioinformatics, databases, algorithms.
- Tutoring experience: introductory bioinformatics.