

Jessica Mullins

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EDUCATION

University of Illinois, Champaign IL

Expected August 2015

Master's Graduate Student in Computer Science

G.P.A. 3.80/4.0

Research: human-computer interaction (HCI), brain-computer interfaces (BCI), social media
Studying the impact of gamification on performance using a BCI.
Leveraging the structure of social media to assist designers find inspiring stimuli.

Lewis & Clark College, Portland OR

May 2010

BA in Computer Science & Mathematics, *with honors*

GPA: 3.58/4.0

Senior thesis integrated human knowledge into a computer playing Go program to study the effects on win percentage.

SKILLS

Development

Java, Python, JSP, SQL, HTML, JavaScript, XML, Bootstrap, Matlab, Processing

Interface Design, Human Subjects Research, Data Mining

Developed an interface to visualize the structure of social media
Designed and ran human subjects studies, surveys, and interviews
Data collecting, including web scraping, using popular APIs (such as Instagram)

Software Development

Active member for 3 years on a SCRUM Java development team
Experience with Microsoft Team Foundation Server (TFS)
Co-authored technical specification documents for product management projects

PROFESSIONAL EXPERIENCE

Department of Computer Science, University of Illinois

Fall 2013 – Present

Doctoral Researcher

Researcher exploring the impact of gamification on Brain-Computer Interface performance.
Designing an experiment to evaluate the role of motivation in Brain-Computer Interface application performance for children.
Developing a web-based tool displaying social media images to be used as creative inspiration.

Division of Intercollegiate Athletics, University of Illinois

Fall 2013 – Present

Information Technology Daytime Support Staff

Provide daily technical support for customers over 100 employees.
Diagnose and solve computer issues while providing prompt and friendly customer support.

Columbia Sportswear Company, Portland OR

Programmer Analyst II

March 2012 – July 2013

Co-lead in developing and writing a disaster recovery plan for the PDM Team.
Technical lead resource for development using Technia technology.
Mentored and supplied instruction to junior team members.

Programmer Analyst I

Sept 2010 – March 2012

Reduced time to manually run nightly batch reports by creating a user interface solution.
Wrote technical specifications for an apparel product development (PDM) J2EE web application.
Developed a solution to move data from PDM to SAP through an integration database.

Willamette Valley REU-RET Consortium, Portland OR

Summer 2009

Research Assistant

Explored various statistical/machine learning approaches to the game of Go.
Developed ideas with a partner to build an opening strategy for the Orego Program.
Leveraged professional player human knowledge with to determine strong moves.
Improved performance by playing more directed moves during the opening sequence.

PUBLICATIONS

Mullins, J. and Drake, P. (2010). "Using Human Knowledge to Improve Opening Strategy in Computer Go". 2010 International Conference on Artificial Intelligence, CSREA Press.

TEACHING EXPERIENCE

Data Structures, University of Illinois

Spring 2015

Assisting in teaching a variety of ways to store collects of data, primarily in C++.
Teaching a lab section introducing small assignments to reinforce concepts covered in lecture.

User-Interface Design, University of Illinois

Fall 2014

Responsible for grading and mentoring 9 groups during their semester project.
Answered questions and explaining topics covered in class during weekly office hour.

Introductory Computer Science, Lewis & Clark College

Fall 2008

Taught introductory computer programming curriculum in a non-standard C language.
Analyzed, graded and debugged 50 students' programming assignments.

LEADERSHIP EXPERIENCE

Engineering Department, University of Illinois

Present

PURE Research Mentor

Research mentor for undergraduates to introduce them to research practices.
Guide undergraduates through a semester long project, promoting individual research growth.

Computer Science Graduate Program, University of Illinois

2014-Present

CS Grad Mentor

Mentor for incoming graduate students to help with the transition to graduate school.
Contact for prospective graduate students, answer questions about research and admissions.

Sunset High School, Beaverton OR

Springs 2011 - 2013

Head JV Softball Coach

Developed daily practice plans, lead the team through practices and games, while managing the entire junior varsity softball program for Sunset High School.

Worked closely with the assistant JV coach and the coaching staff for the varsity program, as well as with the athletic director to make the program the best it could be.

Chewelah Peak Leadership Program, Chewelah WA

Summers 2010 - 2013

Leadership Senior Counselor

Taught team and personal leadership skills to a diverse group of 40 high school students.

Guided a group of 15 students through a team challenge course to develop communication skills.

Lewis & Clark College, Portland OR

2008- 2010

Black Student Union President

Lead 10 students in efforts to provide a support unit for African American students on campus.

Organized weekly meetings and monthly events to promote and celebrate diversity.

Worked with the club to provide a center for support and culture awareness on campus.

Lewis & Clark College Office of Multicultural Affairs, Portland OR

Spring 2009

Student Life Intern

Planned and coordinated the annual campus-wide Fiesta de Salsa event.

Facilitated monthly diversity discussions for college students and staff.

HONORS AND AWARDS

Fellowship Recipient, University of Illinois, 2013 - present

Lewis & Clark College Honor Graduate, 2010

Arthur Ashe Jr. Sports Scholar 2010 Award Recipient

Pioneer Athletics Club (PAC) Outstanding Senior Female-Athlete Career Award, 2010

NCAA 2010 Woman of the Year Award Nominee

Lewis & Clark College Softball Single Season Homerun Record Holder, 2009 - 2013

ACTIVITIES AND COMMUNITY SERVICE

University of Illinois Graduate Society of Women Engineers

Champaign-Urbana Autism Buddy Walk Volunteer