EMILY HASTINGS

74 Maple Ct., Galesburg, IL 61401 | (309)368-3376 | ehstngs2@illinois.edu

EDUCATION

University of Illinois, Urbana-Champaign, IL
Ph.D. in Computer Science (in progress) **2016-Present**
Specialization: Human-Computer Interaction
Advisor: Brian Bailey
Research Interests: crowdsourcing, team formation, peer feedback, CS education

Knox College, Galesburg, IL
B.A. in Computer Science, *summa cum laude* **2012-2016**
Independent Minor: Renaissance and Medieval Studies
Courses included: data structures, hardware organization, information management, algorithm design, graphics, parallel programming, software engineering, networking, operating systems, artificial intelligence

RESEARCH EXPERIENCE

University of Illinois, Urbana-Champaign IL
Research Assistant **Fall 2016 – Present**
Advisor: Brian Bailey
Performing experiments and analyzing data.

Knox College, Galesburg, IL
Research Assistant **Summer 2015**
Advisor: Jaime Spacco
Worked with a team to develop Knoxcraft (knoxcraft.org), a system that allows students to use Java/Python code to build structures in the game Minecraft.

Knox College, Galesburg, IL
Research Assistant **Summer 2014**
Advisor: David Bunde
Worked with a team to develop materials to help teach parallel programming at Knox and other institutions.

Knox College, Galesburg, IL
Research Assistant **Summer 2013**
Advisor: David Bunde
Worked with a team to investigate task mapping and cabling methods for the Dragonfly interconnect topology.

TEACHING EXPERIENCE

Knox College

Teaching Assistant for "Introduction to Computer Science" and "Program Design and Methodology" **2014-2016**
Assisted professors during lab sessions, graded homework, lab assignments, and quizzes, and held office hours.

Teaching Assistant in the Costume Shop **2013-2014**
Built garments for college theatrical shows, mentored students on individual projects, and presented costume research to classes.

PUBLICATIONS AND PAPERS

E. Hastings, D. Rincon-Cruz, M. Spehlmann, S. Meyers, A. Xu, D. P. Bunde, and V. J. Leung, "Comparing global link arrangements for dragonfly networks," in *2015 IEEE International Conference on Cluster Computing*, Sept 2015, pp. 361–370.

PRESENTATIONS AND POSTERS

Knoxcraft: Teaching Introductory Programming with Minecraft (poster)
Knox College Horizons Celebration of Student Research **2016**

Knoxcraft: Teaching Introductory Programming with Minecraft
Knox College Summer Science Seminar Series **2015**

Adventures in Parallel Programming (poster)
Knox College Horizons Celebration of Student Research **2015**

Adventures in Parallel Programming (Best Student Seminar Award)
Knox College Summer Science Seminar Series **2014**

The History and Construction of Elizabethan English Costume (poster)
Knox College Horizons Celebration of Student Research **2014**

Dragonfly Interconnect Topology (poster)
Knox College Horizons Celebration of Student Research **2014**

Dragonfly Interconnect Topology
Knox College Summer Science Seminar Series **2013**

AWARDS

Phi Beta Kappa, *Knox College* **2016**
E. Inman Fox Prize, *Knox College* **2016**
Paul's Prize in Computer Science, *Knox College* **2016**
Howard A. Wilson Prize in Literary Criticism (2nd Place), *Knox College* **2016**
ASSET Scholar, *Knox College* **2015-2016**
Ron Asplund Memorial Research Award, *Knox College* **2014**
National Merit Scholar, *Knox College* **2012-2016**

SKILLS

Microsoft Office, Windows, Eclipse, Github

Programming languages (high proficiency): Java, Python, C

Programming languages (some experience): SQL, MIPS assembly, HTML/CSS, Javascript/JQuery, PHP

Knowledge of research methodologies

Knowledge of statistical analysis techniques, R

Writing and presenting reports

English (native language)

Elementary proficiency in French and Latin

VOLUNTEER EXPERIENCE

University of Illinois
Girls Who Code Facilitator **2017-Present**
Assisting students during weekly club meetings.

Knox College
Teaching Assistant for Knox College 4 Kids **2011-2013**
Assisted teachers for three summers teaching knitting, crochet, weaving, French, and Harry Potter classes to school-age children.

MEMBERSHIPS

Student member of the Association for Computing Machinery