

AUSTIN BART

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EDUCATION

Virginia Tech, Blacksburg, VA

PhD in Computer Science

Expected 2017

Learning Sciences Certificate

Dissertation: "Authentic Introductory Computing with Big Data and Blocks: Motivation, Ability, and Scalability"

University of Delaware, Newark, DE

Honors Bachelor of Computer Science with Distinction

2012

Concentration: Educational Technology

Thesis: "Exploring the XO Laptop as a Platform for Encouraging Creative Writing by Children"

AWARDS

National Science Foundation Graduate Research Fellowship Program (NSFGRFP), *Virginia Tech*

2014 – 2017

Eugene DuPont Memorial Scholarship, *University of Delaware*

2008 – 2012

NSF Graduate Research Fellowship Program Honorable Mention, *Virginia Tech*

2013

SIGCSE'13 Graduate Student Research Competition – 2nd Place, *Virginia Tech*

2013

SIGCSE'15 Graduate Student Research Competition – 3rd Place, *Virginia Tech*

2015

Computer Science Department Outstanding Sophomore Award, *University of Delaware*

2009

Residence Life's Citizen of the Year, Upper Division, *University of Delaware*

2011

TEACHING EXPERIENCE

Virginia Tech, Blacksburg, VA

Associate Instructor – to Dr. Dennis Kafura in "Introduction to Computational Thinking"

2014-2015

Developed technical infrastructure, co-lectured, worked with students, grading

Volunteer Instructor – Governor's School for Agriculture "Introduction to Computer Science"

2014

Taught a 1-week class (1 hour per day) on Computer Science to 20 high school students.

University of Delaware, Newark, DE

Teaching Assistant – to Dr. Keith Decker in "Introduction to Computer Science I"

2011

Ran lab sessions, hosted office hours, and graded assignments for students

Lab Assistant – to Dr. Kathleen F. McCoy in "Introduction to Computer Science I"

2012

Assisted in running lab sessions (*Smaller role due to work on senior thesis*)

RELATED EXPERIENCE

Association for Women in Computing, Virginia Tech

Webmaster

Fall 2013 – Ongoing

Maintained and updated the AWC website, maintained and updated social media presence, organized and supported AWC events.

Computer Science Graduate Council, Virginia Tech

Webmaster

Fall 2013 – Fall 2014

Maintained and updated the Grad Council Website, administered grad council listserv, organized and supported graduate council events, introduced a new system for making graduate student pages indexable and searchable.

Honor Society, University of Delaware

Senior Fellow

Fall 2011 – Spring 2012

Planned and hosted a large number of community activities for Honors students. Also advised students on Honors degree progress.

Computer Science Department, University of Delaware

Undergraduate Research Assistant to Dr. Ben Carterette

Summer 2009 – Fall 2010

Studied evaluation and optimization of information retrieval systems.

Computer Science Department, University of Delaware

Undergraduate Research Assistant to Dr. Lori Pollock**Summer 2011**

Studied language patterns and naming conventions in a large corpuses of Java Programs.

PUBLICATIONS AND PAPERS

- D. Kafura, A. C. Bart, B. Chowdhury, "Design and Preliminary Results from a Computational Thinking Course". ITiCSE'15, Vilnius, Lithuania.* 2015
- A. C. Bart, E. Tilevich, T. Allevato, S. Hall, C. A. Shaffer, "Transforming Introductory Computer Science Projects via Real-Time Web Data", SIGCSE '14, Atlanta, Georgia.* 2014
- A. C. Bart, L. Pollock, "Exploring the XO Laptop as a Platform for Encouraging Creative Writing by Children", Honors BS Thesis, University of Delaware.* 2012
- A. C. Bart, E. M. Bart, Teaching Animal Science with Minecraft: AnimalScienceCraft. GSA Research Symposium at Virginia Tech, Blacksburg, VA.* 2015

POSTERS

- A. C. Bart, Situating Computational Thinking with Big Data: Pedagogy and Technology, SIGCSE 45th ACM technical symposium on Computer Science Education Graduate Research Poster Competition, Kansas City, MO.* 2015
- A. C. Bart, E. Tilevich, C. A. Shaffer, T. Allevato, S. Hall, Teaching Computational Thinking with Real-Time Data, Conference on Higher Education Pedagogy, Virginia Tech, Blacksburg, VA.* 2014
- A. C. Bart, L. Pollock, Wacky Writing: Enhancing the XO Laptop Platform to Motivate Creative Writing by Children, SIGCSE 44th ACM technical symposium on Computer Science Education Graduate Research Poster Competition, Denver, CO, March 2013* 2013
- A. C. Bart, R. Deaton, E. McGinnis, Lowering Development Barriers in Educational Game Design, Conference on Higher Education Pedagogy, Virginia Tech, Blacksburg, VA* 2013
- A. C. Bart, G. Sridhara, L. Pollock, V. Shanker, Reverse Engineering from Java Identifier Names: Conventions and a Grammar, Summer Scholars Poster Presentation, University of Delaware, Newark, DE.* 2011

WORKSHOPS AND CONFERENCE TALKS

- E. Tilevich, C. A. Shaffer, A. C. Bart. Creating Stimulating, Relevant, and Manageable Introductory Computer Science Projects that Utilize Real-Time, Large, Web-Based Datasets , SIGCSE'15, Kansas City, MO.* 2014
- E. Tilevich, C. A. Shaffer, A. C. Bart. Creating Stimulating, Relevant, and Manageable Introductory Computer Science Projects that Utilize Real-Time, Web-Based Datasets, SIGCSE'14, Atlanta, GA.* 2013
- A. C. Bart, J. Riddle, O. Saleem, B. Chowdhury, E. Tilevich, C. A. Shaffer, D. Kafura, Motivating Students with Big Data: CORGIS and MUSIC, Splash-E '14, Portland, Oregon.* 2014
- A. C. Bart, E. Tilevich, C. A. Shaffer, T. Allevato, S. Hall, Using Real-Time Web Data to Enrich Introductory Computer Science Projects, Splash-E '13, Indianapolis, Indiana.* 2013

BOOKS

- D. Kafura, A. C. Bart, B. Chowdhury, Computational Thinking, <http://think.cs.vt.edu/book>* 2014
- A. C. Bart, R. Deaton, E. McGinnis, Platipy Project, <http://www.platipy.org>* 2013

INTERESTS*Software Engineering, Gender Diversity, Introductory Computing Experiences, Motivation and Cognition*