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 Resaerch 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*