

Austin Cory Bart

Publication List

Publications

- [A. C. Bart](#), E. Tilevich, C. A. Shaffer, D. Kafura, Reconciling the Promise and Pragmatics of Enhancing Computing Pedagogy with Data Science, SIGCSE '18, Baltimore, MD. February, 2018.
- L. Gusukuma, [A. C. Bart](#), D. Kafura, Instructional Design + Knowledge Components: A Systematic Method for Refining Instruction, SIGCSE '18, Baltimore, MD. February, 2018.
- B. Chowdhury, [A. C. Bart](#), D. Kafura, Analysis of Collaborative Learning in a Computational Thinking Class, SIGCSE '18, Baltimore, MD. February, 2018.
- [A. C. Bart](#), L. Gusukuma, D. Kafura, Really Pushing My Buttons: Affordances in Block-based Languages (Position Paper), Blocks & Beyond 2017, Raleigh, North Carolina. October 2018.
- L. Gusukuma, [A. C. Bart](#), D. Kafura, Authoring Feedback for Novice Programmers in a Block-based Language (Position Paper), Blocks & Beyond 2017, Raleigh, North Carolina. October 2018.
- [A. C. Bart](#), Motivating Introductory Students with Pedagogical Datasets, Dissertation. March, 2017.
- [A. C. Bart](#), J. Tibau, D. Kafura, E. Tilevich, C. A. Shaffer, Design and Evaluation of a Block-based Environment with a Data Science Context, IEEE Transactions on Emerging Topics in Computing. May, 2017.
- [A. C. Bart](#), J. Tibau, E. Tilevich, C. A. Shaffer, D. Kafura, BlockPy: An Open Access Data-Science Environment for Introductory Programmers, IEEE Computer '17. May, 2017.
- [A. C. Bart](#), R. Whitcomb, D. Kafura, A. A. Shaffer, E. Tilevich. Computing with CORGIS: Diverse, Real-world Datasets for Introductory Computing. ACM Inroads 8, 2 (March 2017), 66-72. [Reprint]
- [A. C. Bart](#), R. Whitcomb, E. Tilevich, C. A. Shaffer, D. Kafura, Computing with CORGIS: Diverse, Real-world Datasets for Introductory Computing (**Best Paper Award**), SIGCSE '17, Seattle, Washington. March, 2017.
- [A. C. Bart](#), J. Tibau, E. Tilevich, C. A. Shaffer, D. Kafura, Implementing an Open-access, Data Science Programming Environment for Learners, COMPSAC '16, Atlanta, Georgia. June 10-15, 2016.
- [A. C. Bart](#), E. Tilevich, C. A. Shaffer, D. Kafura, Position Paper: From Interest to Usefulness with BlockPy, a Block-based, Educational Environment, Blocks & Beyond '15, Atlanta, Georgia. October 21-23, 2015.
- D. Kafura, [A. C. Bart](#), B. Chowdhury, Design and Preliminary Results From a Computational Thinking Course. ITiCSE'15, Vilnius, Lithuania. July 6-8, 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. March 5-8, 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. Defended May 9, 2012.

Panels and Talks

- [A. C. Bart](#), K. Subramanian, R. E. Anderson, N. A. Hamid, Preparing, Visualizing, and Using Real-world Data in Introductory Courses, SIGCSE'18, Baltimore, Maryland. February, 2018.
- [A. C. Bart](#), C. A. Shaffer. Instructional Design is to Teaching as Software Engineering is to Programming. SIGCSE '16. Kansas City, MO. March 2-5, 2016.
- [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. October 21-23, 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. October 26-31, 2013.

Workshops and Demos

- A. C. Bart, L. Gusukuma, D. Kafura. Pushing My Buttons: Talking about Affordances in Block Interfaces. Blocks & Beyond 2017. Raleigh, NC. October 2017.
- A. C. Bart and D. Kafura. BlockPy Interactive Demo: Dual Text/Block Python Programming Environment for Guided Practice and Data Science (Abstract Only). SIGCSE'17. Seattle, Washington. March 2017.
- 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.

Posters

- L. Gusukuma, A. C. Bart, D. Kafura, Authoring Feedback for Novice Programmers in a Block-based Language. Blocks & Beyond 2017. Raleigh, NC. October 2017.
- A. C. Bart. Applying Formal Models of Instructional Design to Measurably Improve Learning in Introductory Computing. SIGCSE '16. Kansas City, MO. March 2-5, 2016.
- A. C. Bart, E. M. Bart, Teaching Animal Science with Minecraft: AnimalScienceCraft. GSA Research Symposium at Virginia Tech, Blacksburg, VA, March 2015.
- 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, March 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, February 2014.
- A. C. Bart, E. Tilevich, C. A. Shaffer, T. Allevato, S. Hall, Transforming Introductory Computer Science Projects via Real-Time Web Data, Graduate Student Poster Symposium, Virginia Tech, Blacksburg, VA, May 2013.
- 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.
- A. C. Bart, R. Deaton, E. McGinnis, Lowering Development Barriers in Educational Game Design, Conference on Higher Education Pedagogy, Virginia Tech, Blacksburg, VA, February 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, August 2011.