

Brittany Ann Kos

Curriculum Vitae

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Background

Jun 2013 – Present NSF GK12 Engineering Fellow
ECSITE Project – Award Number: 0841423
Department of Computer Science, University of Colorado at Boulder

Research Experience

Aug 2013 – Present ATLAS Institute PhD Program

Teaching Experience

Instructor

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| Fall 2015
(Scheduled) | ATLS 2300: Code (Listed as ATLS 2519: Special Topics: Code)
Introduces students to fundamental programming concepts and methodologies and apply them to creative projects. Students will learn to use code as a creative and artistic tool, and to utilize programming to find, define and solve problems in innovative ways. |
| Fall 2015
(Scheduled) | ATLS 2200: Web (Listed as ATLS 2519: Special Topics: Web)
Introduces techniques, technologies and concepts of web design and development through lectures, projects and critiques. Focuses technically on HTML, CSS and JavaScript as the primary web technologies. This course also contextualizes the technical and societal implications of the Internet through historical and critical perspectives. |
| Summer 2015
(Scheduled) | CSCI 2270: Data Structures
Studies data abstractions (e.g., stacks, queues, lists, trees) and their representation techniques (e.g., linking, arrays). Introduces concepts used in algorithm design and analysis including criteria for selecting data structures to fit their applications. |
| Spring 2015 | ATLS 3020: Digital Media 2
A continuation of Digital Media 1 (ATLS 3010), this course introduces students to advanced digital media development including interactive programming, scripting, and database functionality. Emphasizes a historical and conceptual understanding of programming and computational theories. May be repeated for a total of 6 credit hours. Prerequisites: Requires prerequisite courses of ATLS 2000 and 3010 (all minimum grade C). Restricted to students with minor in Technology, Arts, and Media (MTAM). |

Teaching Assistant

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| 2013 – 2014 | NSF GK12 Fellow |
| 2014 - 2015 | Trail Ridge Middle School 8 th Grade Physical Science class |
| Fall 2014 | ATLS 1220: Introduction to Computer Science
Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. |

Spring 2014	<p>ATLS 2000: The Meaning of Information Technology</p> <p>Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society.</p>
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Workshops

Summer 2015	Summer SuperSTEM
Summer 2014	<p>ATLAS-Campos EPC Summer STEM Program (formerly Currents)</p> <p>The ATLAS-Campos EPC Summer STEM Program is a three-week technology intensive summer workshop for high school students who are largely from underrepresented minority groups. Students learn to use software applications and gain programming skills to create and manipulate digital content and complete a final project that showcases their creative and technical talents. Workshop participants also visit with guest speakers about career opportunities in technology-related fields and enjoy field trips to local technology-focused businesses.</p>
Summer 2015 (Scheduled)	Science Discovery Summer Camp
Summer 2014	CU Science Discovery offers a variety of hands-on STEM (science, technology, engineering and math) camps for kids ages 5-18. Science Discovery offers intensive 1-3 week summer
Summer 2013	for high school students. Workshops provide unique opportunities for older students to work in CU laboratories, interact with CU scientists, and explore STEM careers.

Publications

Jul 2015 (Forthcoming)	<p>Kos, B. A., Behnke, K. A., Bennett, J. K., Sieber, D. (2015). <i>Computer Science Principles: An Introductory Computer Science Course for Non-Majors</i>. In <i>ITICSE '15: Innovation and Technology in Computer Science Education Conference 2015 Proceedings, July 2015, Vilnius, Lithuania</i>. ACM.</p>
Mar 2015	<p>Kos, B. A., Sims, E. (2015). <i>STEM Careers Infographic Project (SCIP): Teaching Media-Based Computational Thinking Practices</i>. In <i>Proceedings of the 45th SIGCSE technical symposium on Computer science education, March 2015, Kansas City, MO, USA</i>. ACM.</p>
Oct 2014	<p>Kos, B. A., Sims, E. (2014). <i>Infographics: The New 5-Paragraph Essay</i>. In <i>2014 Rocky Mountain Celebration of Women in Computing, October 2014, Laramie, WY, USA</i>.</p>

Presentations

April 2015	<p>ATLAS Expo</p> <p>Work-in-Progress: <i>Building Culture in Digital Media and Introductory Programming</i></p>
Sep 2014	<p>6th Annual Symposium on STEM Education</p> <p>Work-in-Progress: <i>STEM Careers Infographic Project (SCIP)</i></p>

Professional Activities

Mar 2015	ACM Special Interest Group on Computer Science Education Conference (SIGCSE) Kansas City, Missouri, USA
Oct 2014	Rocky Mountain Celebration of Women in Computing Conference (RMCWiC) Laramie, Wyoming, USA
Oct 2013	Grace Hopper Celebration of Women in Computing Conference Minneapolis, Minnesota, USA
Mar 2013	ACM Special Interest Group on Computer Science Education Conference (SIGCSE) Denver, Colorado, USA
Oct 2011	Colorado Celebration of Women in Computing (CCWIC) (renamed to RMCWiC) Denver, Colorado, USA

Volunteer Work

2013-2015	Earth Explorers Board Member, Evaluation Lead, Senior Volunteer, Mentor Earth Explorers is an independent nonprofit that partners with local schools and research institutions to provide Science, Technology, Engineering and Math (STEM) curriculum with education in filmmaking to spark a lifelong interest in STEM topics.
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Work Experience

Jun 2013 – Present	Kode Studios: Creator and Developer Kode Studios is a web design and development firm, founded by Brittany Ann Kos in 2013 in Boulder, Colorado. Since then Kode has been working on building their web presence by assisting in local web projects around the community.
Jun 2012 - Jun 2013	ZOLL Medical: User Experience Developer ZOLL is a medical company that offers EMS agencies and medical companies software solutions. I worked on the UI of ZOLL Online, maintaining current products, and helping design and integrate new products into the website. I was able to lead a few projects and learn about the design cycle in a real-world setting.
Oct 2010 - Jun 2012	College of Arts & Sciences IT: Web Application Developer ASIT is the in-house IT department University of Colorado's College of Arts & Sciences utilizes to build web applications. I was primarily responsible for the design and implementation of the Orientation checklist, seen by all freshmen and first-year students enrolled at CU. I also helped with implementing usability changes to the Advisor Portal and the Graduation Module, used by all advisors in the college.
Sep 2010 - Jan 2011	College of Arts & Sciences IT: Web Developer I helped with transferring and updating the JILA website.

Education

May 2017 (expected)	PhD Technology, Media, and Society ATLAS Institute – University of Colorado
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Cumulative GPA: 3.9 / 4.0

May 2014

M.S. Computer Science

College of Engineering and Applied Sciences - University of Colorado Boulder

Emphasis in Human-Centered Computing

Cumulative GPA: 3.7 / 4.0

May 2012

B.S. Computer Science

College of Engineering and Applied Sciences - University of Colorado Boulder

Emphasis in Human-Centered Computing

Minor in Technology, Arts and Media

Cumulative GPA: 3.3 / 4.0