### Preliminary Program

**SIGCSE 2015 Symposium**

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<table>
<thead>
<tr>
<th>WEDNESDAY 8:30 AM - 5:00 PM</th>
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<tr>
<td><strong>Pre-Symposium Events (room: TBA in Convention Center)</strong></td>
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<tr>
<th>WEDNESDAY 7:00 PM - 10:00 PM</th>
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<tr>
<td><strong>Workshops</strong></td>
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**Workshop #1:** Teaching Computing Foundations to Non-Majors (room: 2503A)
- Catherine Bareiss, Olivet Nazarene University
- Larry Vail, Olivet Nazarene University

**Workshop #2:** Teaching Parallel & Distributed Computing with MPI (room: 2502A)
- Joel Adams, Calvin College
- Richard Brown, St Olaf College
- Elizabeth Shoop, Macalester College

**Workshop #3:** Teaching Computer Science Soft Skills (room: 2502B)
- Orit Hazzan, Technion – Israel Institute of Technology
- Gadi Har-Shai, Technion – Israel Institute of Technology

**Workshop #4:** SEED Labs: Using Hands-on Lab Exercises for Computer SEcurity EDucation (room: 2504A)
- Wenliang Du, Syracuse University

**Workshop #5:** Teaching Introductory Computer Science For A Diverse Student Body: Girls Who Code Style (room: 2505A)
- Jeff Stern, University of Michigan
- Ashley Gavin, Girls Who Code
- Kari Bancroft, Girls Who Code

**Workshop #6:** Making Music with Computers: Creative Programming in Python (room: 2503B)
- Bill Manaris, College of Charleston
- Andrew Brown, Griffith University
- Tobias Kohn, ETH Zurich, Switzerland

**Workshop #7:** Intellectual Property Law Basics for Computer Science Instructors (room: 2505B)
- David G. Kay, University of California, Irvine
THURSDAY 8:30 AM - 10:00 AM
Plenary Session
Jessica Hodgins
Vice President, Disney Research and Professor, Carnegie Melon University

THURSDAY 10:00 AM - 10:45 AM
Break, Exhibits and Demos

Demo: EarSketch: A Web-based Environment for Teaching Introductory Computer Science Through Music Remixing
Jason Freeman, Georgia Institute of Technology
Brian Magerko, Georgia Institute of Technology
Regis Verdin, Georgia Institute of Technology

Demo: Blockly Language Creation and Applications: Visual Programming for Media Computation and Bluetooth Robotics Control
Jake Trower, University of Alabama
Jeff Gray, University of Alabama

THURSDAY 10:45 AM - 12:00 PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 10:45 AM| Student Response to Teaching of Memory Cues and Resumption Strategies in Computer Science Classes (room: 2502A)
Noah John, Colorado State University
Jaime Ruiz, Colorado State University |
| 11:10 AM| Closing The Cyberlearning Loop: Enabling Teachers To Formatively Assess Student Programming Projects
Ashok Basawapatna, AgentSheets Inc.
Alexander Repenning, AgentSheets Inc.
Kyu Han Koh, University of Colorado Boulder |
| 11:35 AM| Analyzing Student Work Patterns Using Programming Exercise Data
Jaime Spacco, Knox College
Paul Denny, University of Auckland
Brad Richards, University of Puget Sound
David Babcock, York College
David Hovemeyer, York College
James Moscola, York College
Robert Duvall, Duke University |
## Preliminary Program

### SIGCSE 2015 Symposium

#### Papers: Curriculum (room: 2503A)

**10:45 AM**  
Teaching Computing as Science in a Research Experience  
*Jerod Weinman, Grinnell College*  
*David Jensen, University of Massachusetts Amherst*  
*David Lopatto, Grinnell College*

**11:10 AM**  
Backward Design: An Integrated Approach to a Systems Curriculum  
*Michael Kirkpatrick, James Madison University*  
*Mohamed Aboutabl, James Madison University*  
*David Bernstein, James Madison University*  
*Sharon Simmons, James Madison University*

**11:35 AM**  
A Module-based Approach to Adopting the 2013 ACM Curricular Recommendations on Parallel Computing  
*Martin Burtscher, Texas State University*  
*Wuxu Peng, Texas State University*  
*Apan Qasem, Texas State University*  
*Hongchi Shi, Texas State University*  
*Dan Tamir, Texas State University*  
*Heather Thiry, University of Colorado at Boulder*

#### Papers: CS1/CS2: Focus on CS1 (room: 3501C)

**10:45 AM**  
Creating a Computer Simulator as a CS1 Student Project  
*Kian Pokorny, McKendree University*

**11:10 AM**  
Program Decomposition and Complexity in CS1  
*Aaron Keen, California Polytechnic State University*  
*Kurt Mammen, California Polytechnic State University*

**11:35 AM**  
Supporting Creativity and User Interaction in CS1 Homework Assignments  
*Tammy VanDeGrift, University of Portland*

#### Papers: Beyond CS2: Miscellaneous Topics (room: 3501D)

**10:45 AM**  
Embedding Secure Coding Instruction into the IDE: A Field Study in an Advanced CS Course  
*Michael Whitney, UNC Charlotte*  
*Heather Lipford-Richter, UNC Charlotte*  
*Bill Chu, UNC Charlotte*  
*Jun Zhu, UNC Charlotte*

**11:10 AM**  
Augmenting Undergraduate Computer Science Education with Programmable Smartwatches  
*Andrey Esakia, Virginia Tech*  
*Shuo Niu, Virginia Tech*  
*Scott McCrickard, Virginia Tech*
11:35 AM  Simulating IBM Watson in the Classroom  
Wlodek Zadrozny, UNC Charlotte  
Sean Gallagher, UNC Charlotte  
Walid Shalaby, UNC Charlotte  
Adarsh Manjunath, UNC Charlotte

Special Session (room: 3501H)  Thu 10:45 AM - 12:00 PM
Tutorial: Concurrency with Alice 3 and Java  
Wanda Dann, Carnegie Mellon University  
Dennis Cosgrove, Carnegie Mellon University  
Donald Slater, Carnegie Mellon University

Panel (room: 3501G)  Thu 10:45 AM - 12:00 PM
Booming Enrollments – Good Times?  
Tracy Camp, Colorado School of Mines  
Stu Zweben, The Ohio State University  
Ellen Walker, Hiram College  
Lecia Barker, University of Texas at Austin

Special Session (room: 2505A)  Thu 10:45 AM - 12:00 PM
Integrating Live Projects Into Computing Curriculum  
Joseph Chase, Radford University  
Prem Uppuluri, Radford University  
Tracy Lewis, Radford University  
Ian Barland, Radford University  
Jeff Pittges, Radford University

Supporter Session (room: TBA)  Thu 10:45 AM - 12:00 PM
TBA

Supporter Session (room: TBA)  Thu 10:45 AM - 12:00 PM
TBA

THURSDAY 12:00 PM - 1:45 PM
LUNCH: FirstTimers' Lunch (SIGCSE Award for Lifetime Service to the Computer Science Education Community - Frank Young - Emeritus Professor, Rose-Hulman Institute of Technology) or on your own
THURSDAY 1:45 PM - 3:00 PM

Papers: Automated Assessment (room: 2503A)

1:45 PM  WebWolf: Towards a Simple Framework for Automated Assessment of Webpage Assignments in an Introductory Web Programming Class  
Antonio Siochi, Christopher Newport University  
William Hardy, Christopher Newport University

2:10 PM  The Role of Automation in Undergraduate Computer Science Education  
Chris Wilcox, Colorado State University

2:35 PM  Mechanical TA: Partially Automated High-Stakes Peer Grading  
James Wright, University of British Columbia  
Chris Thornton, University of British Columbia  
Kevin Leyton-Brown, University of British Columbia

Papers: Gender & Diversity (room: 2502A)

1:45 PM  Are Females Disinclined to Tinker in Computer Science?  
Samantha Krieger, Department of Computer Science, University of British Columbia  
Meghan Allen, Department of Computer Science, University of British Columbia  
Catherine Rawn, Department of Psychology, University of British Columbia

2:10 PM  The Emerging Role of Self-Perception in Student Intentions  
Jennifer Dempsey, Dept. of Computer Science, University of Arizona  
Richard T. Snodgrass, Dept. of Computer Science, University of Arizona  
Isabel Kishi, Dept. of Computer Science, University of Arizona  
Allison Titcomb, Biosphere II, University of Arizona

2:35 PM  StitchFest: Diversifying Perceptions, Participation, and Projects in a College Hackathon to Increase Female Participation in Computing  
Gabriela Richard, University of Pennsylvania  
Yasmin Kafai, University of Pennsylvania  
Barrie Adleberg, University of Pennsylvania  
Orkan Telhan, University of Pennsylvania
### Papers: Non-majors/Interdisciplinary (room: 3501E)  Thu 1:45 PM - 3:00 PM

**1:45 PM**  
Computer Scientists at the Biology Lab Bench  
*Andrea Tartaro, Furman University  
Renee J. Chosed, Furman University*

**2:10 PM**  
Data Journalism: Lessons Learned While Designing an Interdisciplinary Service Course  
*Christopher Plaue, University of Georgia  
Lindsey Cook, U.S. News & World Report*

**2:35 PM**  
Introducing Computing Concepts to Non-Majors: A Case Study in Gothic Novels  
*Heather Bort, Marquette University  
Mimi Czarnik, Alverno College  
Dennis Brylow, Marquette University*

### Papers: CS1/CS2: Themed Approaches (room: 3501C)  Thu 1:45 PM - 3:00 PM

**1:45 PM**  
Statistics-infused Introduction to Computer Science  
*Olaf Hall-Holt, St. Olaf College  
Kevin Sanft, St. Olaf College*

**2:10 PM**  
Building Worlds: Bridging Imperative-First and Object-Oriented Programming in CS1–CS2  
*Zoë Wood, California Polytechnic State University  
Aaron Keen, California Polytechnic State University*

**2:35 PM**  
A Data Programming CS1 Course  
*Ruth Anderson, University of Washington  
Michael Ernst, University of Washington  
Robert Ordonez, Southern Adventist University  
Paul Pham, The Evergreen State College  
Ben Tribelhorn, Seattle University*

### Papers: Beyond CS: Programming Languages/Compilers (room: 3501D)  Thu 1:45 PM - 3:00 PM

**1:45 PM**  
A Descent into the Maelstrom: Teaching Legacy Programming and Re-engineering  
*Michael Wirth, School of Computer Science, University of Guelph*

**2:10 PM**  
A Framework for Teaching Programming Languages  
*Kent Lee, Luther College*

**2:35 PM**  
The Interpreter In An Undergraduate Compilers Course  
*John Lasseter, Hobart & William Smith Colleges*
Panel (room: 3501G)  
**Panel on Flipped Classrooms**

- Jesse Heines, University of Massachusetts Lowell
- Jeffrey Popyack, Drexel University
- Briana Morrison, Southern Polytechnic State University
- Kate Lockwood, University of St. Thomas
- Doug Baldwin, SUNY Geneseo

**Special Session (room: 3501H)**  
**Computer Science Principles Curricula: On-the-ground, adoptable, adaptable, approaches to teaching**

- Owen Astrachan, Duke University
- Daniel Garcia, University of California Berkeley
- Bennett Brown, Project Lead The Way
- Jeff Gray, University of Alabama
- Ralph Morelli, Trinity College
- Marie desJardins, University of Maryland, Baltimore County
- Calvin Lin, University of Texas at Austin
- Nigamanth Sridhar, Cleveland State University
- Bradley Beth, University of Texas at Austin

**Supporter Session (room: TBA)**  
**Google**

**Supporter Session (room: TBA)**  
**TBA**

**THURSDAY 3:00 PM - 3:45 PM**  
**Break, Exhibits & Demos**

**Demo: A Classroom Tested Accessible Multimedia Resource for Engaging Underrepresented Students in Computing: The University of Maryland Curriculum In A Box**

- Elissa Redmiles, University of Maryland/IBM, Inc.
- Mary Abad, University of Maryland
- Isabella Coronado, University of Maryland
- Sean Kross, University of Maryland
- Amelia Malone, University of Maryland

**Demo: Using BlueJ to code Java on the Raspberry Pi**

- Amjad Altadmri, University of Kent
- Neil Brown, University of Kent
- Michael Kölling, University of Kent
### THURSDAY 3:45 PM - 5:00 PM

#### Papers: Block Languages (room: 3501E)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>3:45 PM</td>
<td>DBSnap: Learning Database Queries by Snapping Blocks</td>
<td>Yasin Silva, Arizona State University, Jaime Chon, Arizona State University</td>
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<tr>
<td>4:10 PM</td>
<td>Language Migration in non-CS Introductory Programming through Mutual Language Translation Environment</td>
<td>Yoshiaki Matsuzawa, Shizuoka University, Takashi Ohata, Shizuoka University, Manabu Sugiura, Keio University, Sanshiro Sakai, Shizuoka University</td>
</tr>
<tr>
<td>4:35 PM</td>
<td>Scratch: A Way to Logo and Python</td>
<td>Mark Dorling, Computing at School, BCS Chartered Institute for IT, David White, Computing at School, BCS Chartered Institute for IT</td>
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#### Papers: Gender & Diversity (room: 2502A)

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<tr>
<td>3:45 PM</td>
<td>The Grace Hopper Regional Consortium</td>
<td>Gloria Townsend, DePauw University, Kay Sloan, Rockman et al</td>
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<tr>
<td>4:10 PM</td>
<td>Improving Undergraduate Student Performance in Computer Science at Historically Black Colleges and Universities (HBCUs) through Industry Partnerships</td>
<td>A. Nicki Washington, Howard University, Legand Burge, Howard University, Marlon Mejias, Howard University, Ketly Jean-Pierre, Howard University, Qi’Anne Knox, Howard University</td>
</tr>
<tr>
<td>4:35 PM</td>
<td>A Comparative Study of the Acceptability of Signs for the Brazilian Sign Language Created in Person and Remotely</td>
<td>Francisco Oliveira, State University of Ceará, Neiva Cardins, State University of Ceará, Adriano Freitas, Federal Institute of Ceará, Anibal Oliveira, State University of Ceará</td>
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<tr>
<td>Papers: Student Engagement: Flipped Classroom (room: 3501C)</td>
<td>Thu 3:45 PM - 5:00 PM</td>
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| 3:45 PM | Beyond the Flipped Classroom: Learning by Doing Through Challenges and Hack-a-thons  
*Michael Skirpan, University of Colorado - Boulder*  
*Tom Yeh, University of Colorado - Boulder* |
| 4:10 PM | Flipped Classroom Strategies for CS Education  
*Mary Lou Maher, UNC Charlotte*  
*Heather Lipford, UNC Charlotte*  
*Celine Latulipe, UNC Charlotte*  
*Audrey Rorrer, UNC Charlotte* |
| 4:35 PM | The Effectiveness of Video Quizzes in a Flipped Class  
*Lisa Lacher, University of Houston - Clear Lake*  
*Mark Lewis, Trinity University* |

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<th>Papers: CS1/CS2: Persistance and Attitudes (room: 3501D)</th>
<th>Thu 3:45 PM - 5:00 PM</th>
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</table>
| 3:45 PM | Reconsidering the Impact of CS1 on Novice Attitudes  
*Amber Settle, DePaul University*  
*John Lalor, DePaul University*  
*Theresa Steinbach, DePaul University* |
| 4:10 PM | Drop, Fail, Pass, Continue: Persistence in CS1 and Beyond in Traditional and Inverted Delivery  
*Diane Horton, University of Toronto*  
*Michelle Craig, University of Toronto* |
| 4:35 PM | Towards Incremental Separation of Surmountable and Insurmountable Programming Difficulties  
*Jason Carter, Cisco System Inc*  
*Prasun Dewan, The University of North Carolina at Chapel Hill*  
*Mauro Pichiliani, Instituto Tecnológico de Aeronáutica* |

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<tr>
<th>Papers: Beyond CS2: Algorithms (room: 2503A)</th>
<th>Thu 3:45 PM - 5:00 PM</th>
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| 3:45 PM | Illustrating the Interaction of Algorithms and Data Structures Using the Matching Problem  
*Joan M. Lucas, The College at Brockport, State Univ. of New York* |
| 4:10 PM | Fibonacci in The Curriculum: Not Just a Bad Recurrence  
*Saad Mneimneh, Hunter College CUNY* |
| 4:35 PM | Randomized Reduction  
*Brian Dean, Clemson University*  
*Raghuveer Mohan, Clemson University*  
*Chad Waters, Clemson University* |
### Special Session (room: 3501G)  Thu 3:45 PM - 5:00 PM

**Curricular Assessment: Tips and Techniques**

*Henry Walker, Grinnell College*

*Sue Fitzgerald, Metropolitan State University, MN*

*John Dooley, Knox College*

### Panel (room: 3501H)  Thu 3:45 PM - 5:00 PM

**Best Practices for IRB Approval: Four Perspectives**

*Michael Kirkpatrick, James Madison University*

*Janice Cuny, National Science Foundation*

*Mark Guzdial, Georgia Institute of Technology*

*Amanda Holland-Minkley, Washington & Jefferson College*

*Cliff Shaffer, Virginia Polytechnic Institute and State University*

### Panel (room: 2505A)  Thu 3:45 PM - 5:00 PM

**Supporting the Computer Science Learning Process**

*Amy Briggs, Middlebury College*

*David Bau, Google*

*Caroline Meeks, Prospect Hill Academy*

*Pat Yongpradit, Code.org*

### Supporter Session (room: TBA)  Thu 3:45 PM - 5:00 PM

**ABET**

### BOFS - Flock #1 (room: TBA in Marriott Hotel)  Thu 5:30 PM - 6:20 PM

**Universal Access to Computing Education**

*Richard Ladner, University of Washington*

*Brianna Blaser, University of Washington*

*Daniela Marghitu, Auburn University*

**Mapping Alice Curriculum to Standards**

*Donald Slater, Carnegie Mellon University*

*Wanda Dann, Carnegie Mellon University*

*Stephen Cooper, Stanford University*

**Brainstorming How to Use Lego Mindstorms EV3 in the Classroom**

*Greg Kawell, Samford University*

**What Math is the Right Math for Computing?**

*Doug Baldwin, SUNY Geneseo*

*John Dougherty, Haverford College*
K12 CS Teaching Methods Courses

Shuchi Grover, SRI International
R. Benjamin Shapiro, Tufts University
Brian Dorn, University of Nebraska, Omaha

Process Oriented Guided Inquiry Learning in Computer Science
Clifton Kussmaul, Muhlenberg College
Helen Hu, Westminster College
Chris Mayfield, James Madison University

A Town Meeting: SIGCSE Committee on Expanding the Women-in-Computing Community
Gloria Townsend, DePauw University

Resources and strategies for flipped classrooms
Edward Gehringer, North Carolina State University
Mark Hall, University of Wisconsin - Colleges

The Great Objective-C Swift Migration of 2015
Michael Rogers, Northwest Missouri State University
Bill Siever, Western Illinois University

Teaching Track Faculty in CS
Mark Sherriff, University Virginia
Dan Garcia, University of California, Berkeley

Juggling the Jigsaw: Enabling CS1 Growing Enrollment and Diversity at Undergraduate Institutions
Farzana Rahman, James Madison University
Dee Weikle, Eastern Mennonite University

Interactive Ebooks and Course Materials -- A BOF for Authors and Instructors
Cay Horstmann, San Jose State University
Smita Bakshi, Zyante Inc.
Amruth Kumar, Ramapo College of New Jersey
Frank Vahid, University of California Riverside

Updating the ACM/IEEE 2008 Curriculum in Information Technology
Mihaela Sabin, University of New Hampshire
Svetlana Peltsverger, Southern Polytechnic State University
Cara Tang, Portland Community College

Teaching Algebra and Computing through Bootstrap and Program by Design
Emmanuel Schanzer, Harvard Graduate School of Education
Kathi Fisler, WPI
Teaching Security using Hands-On Exercises in 2015
Richard Weiss, The Evergreen State College
Michael Locasto, The University of Calgary
Jens Mache, Lewis & Clark College
Elizabeth Hawthorne, Union County College
Justin Cappos, New York University
Blair Taylor, Towson University
Ambereen Siraj, Tennessee Tech University

Creating Learning Assessment Tools for Cybersecurity Education
Geoffrey Herman, University of Illinois at Urbana-Champaign
Ronald Dodge, United States Military Academy

Automatically generated feedback for CS student work: best practices
Bruce Char, Drexel University
Jeremy Johnson, Drexel University
Jeffrey Popyack, Drexel University
William Mongan, Drexel University

Handling Very Large Lecture Courses: Keeping the Wheels on the Bus
Josh Hug, UC Berkeley

Computer Science Principles: Expanding the Community
Owen Astrachan, Duke University
Lien Diaz, College Board
Amy Briggs, Middlebury College
Fran Trees, Rutgers University
Richard Kick, Newbury Park High School
BOFS - Flock #2 (room: TBA in Marriott Hotel)  Thu 6:30 PM - 7:20 PM

Proposed ABET Computer Science Program Criteria and the CS2013 Curriculum
  Michael Oudshoorn, Wentworth Institute of Technology
  Stan Thomas, Wake Forest University
  Barbara Boucher Owens, Southwestern University
  Deborah Trytten, University of Oklahoma
  Mary Jane Willshire-Fairley, Capella University

AP CS A – Sharing teaching strategies and curricular ideas
  Paul Tymann, Rochester Institute of Technology
  Lester Wainright, Charlottesville High School
  Sandy Czajka, Riverside Brookfield High School

Perspectives on How Computer Science Curricula 2013 Influences Two-Year College Programs
  Cindy Tucker, Bluegrass Community and Technical College
  Cara Tang, Portland Community College
  Elizabeth Hawthorne, Union County College

New Concepts in Database System Education – Experiences and Ideas
  Carsten Kleiner, University of Applied Sciences & Arts Hannover

Addressing Professional Development Needs for K-12 CS – Working with Your Local CSTA Chapter
  David Reed, Creighton University
  Frances P. Trees, Rutgers University

Study Abroad Experiences in Computer Science
  Michael Goldweber, Xavier University

Sharing Best Practices for Alumni Engagement
  Meghan Allen, Department of Computer Science, University of British Columbia
  Ben Coleman, Department of Mathematics and Computer Science, Moravian College
  Diane Horton, Department of Computer Science, University of Toronto
  Lynn Lambert, Physics, Computer Science and Engineering Department, Christopher Newport University
  Michele Ng, Department of Computer Science, University of British Columbia

Assessments for Computational Thinking in K-12
  Shuchi Grover, SRI International
  Eric Snow, SRI International
  Marie Bienkowski, SRI International
Student Contributions to Humanitarian Free and Open Source Software (HFOSS)

Lori Postner, Nassau Community College
Stoney Jackson, Western New England University
Ben Coleman, Moravian College
Suzanne Mello-Stark, University of Rhode Island
Samuel Rebelsky, Grinnell College

Partnering to Promote State-by-State Computing Education Reform

W. Richards Adrion, University of Massachusetts Amherst
Mark Guzdial, Georgia Institute of Technology
Barbara Ericson, Georgia Institute of Technology

Open Educational Resources: What Next?

Lillian (Boots) Cassel, Villanova University
Cynthia Lee, Stanford University
Cliff Shaffer, Virginia Tech
Darina Dicheva, Winston-Salem State University
David Hovemeyer, York College of Pennsylvania

Computer Science: Small Department Initiative

Catherine Bareiss, Olivet Nazarene University

Empirical Research in CS Education

Mark Sherriff, University Virginia
Sarah Heckman, North Carolina State University

CS 4 Everyone: Diversifying the K-12 Pipeline for CS at College and High School Level

Farzana Rahman, James Madison University
Jennifer Stevens, Virginia Advanced Study Strategies (VASS)
Sharon Simmons, James Madison University

Preparing Undergraduates to Make the Most of Attending CS Conferences

Janet Davis, Grinnell College
Christine Alvarado, University of California, San Diego
Miranda Parker, Georgia Tech
Jennelle Nystrom, Yahoo!

Can Programming Boot Camp Help Under-represented College Students Succeed in Computing Degrees?

Kristine Nagel, Georgia Gwinnett College
Sonal Dekhane, Georgia Gwinnett College
Nannette Napier, Georgia Gwinnett College
SIGCSE Reads: Time for Book Discussion
   Rebecca Bates, Minnesota State University, Mankato
   Judy Goldsmith, University of Kentucky
   Valerie Summet, Emory University

Working with Undergraduate Teaching Assistants: Best practices and lessons learned
   Colleen Lewis, Harvey Mudd College
   Chris Gregg, Tufts University

Blended CS Courses using Massive, Open, Online Courses (and other online resources)
   Douglas Fisher, Vanderbilt University

THURSDAY 7:30 PM - 8:30 PM
Reception (room: TBA in Marriott Hotel)
FRIDAY 8:30 AM - 10:00 AM
Plenary Session - SIGCSE Award for Outstanding Contribution to Computer Science Education - Mark Allen Weiss - Professor, Florida International University

FRIDAY 10:00 AM - 10:45 AM
Break, Exhibits, Demos & Posters

Demo: Looking Glass
  Caitlin Kelleher, Washington University in St. Louis

Demo: CS1 and CS2 Materials for Engaging and Retaining Undergraduate CS Students
  Alvaro Monge, California State University Long Beach
  Beth Quinn, NCWIT
  Cameron Fadjo, Google

Poster: Factors Affecting High School Student Engagement in Introductory Computer Science Classes
  Sarah Wille, Outlier Research & Evaluation | CEMSE | University of Chicago
  Dae Kim, Outlier Research & Evaluation | CEMSE | University of Chicago

Poster: Exploring Computer Science Course and Math Achievement
  Daniel Lewis, Santa Clara University
  Lisa Kohne, SmartStart Evaluation & Research
  Timothy Mechlinski, SmartStart Evaluation & Research
  Mariana Schmalstig, SmartStart Evaluation & Research

Poster: Just Enough Programming for Eight-years Olds
  Gavin Kearns, Paul Elementary School
  Karen H Jin, Department of Computer Science, University of New Hampshire

Poster: Moving Ahead with Undergraduate Computational Science Programs
  Lori Carter, Point Loma Nazarene University
  Tim Little, Point Loma Nazarene University
  Claire Mathews, Point Loma Nazarene University

Poster: Computing in the Classroom: A Workshop for Teachers to Infuse Computational Thinking into K-12 Classrooms
  Yeşem Kurt-Peker, Columbus State University
  Lydia Ray, Columbus State University
  Rania Hodhod, Columbus State University
  Shamim Khan, Columbus State University
Poster: Using POGIL Activities to Teach CS Principles to Diverse Students  
*Helen Hu, Westminster College*

Poster: A Case Study on Adding Computer Science as a Math Graduation Elective: A Report from the Alabama CS/Mathematics Crosswalk Committee  
*Jeff Gray, University of Alabama*  
*Mary Boehm, A+ College Ready*  
*Carol Crawford, A+ College Ready*  
*Jeff Baker, Huntsville High School*  
*Carol Yarbrough, Alabama School of Fine Arts*  
*Jill Westerlund, Hoover High School*  
*Gina McCarley, Lawrence County High School*

Poster: Creating New Languages in Blockly: Two Case Studies in Media Computation and Robotics  
*Jake Trower, University of Alabama*  
*Jeff Gray, University of Alabama*

Poster: Automating Software Engineering Best Practices Using an Open Source Continuous Integration Framework  
*Sarah Heckman, NC State University*  
*Jason King, NC State University*  
*Michael Winters, NC State University*

Poster: A Bottom-Up Approach to Teaching Server-Side Web Development Skills  
*Ariel Ortiz, Tecnologico de Monterrey, Campus Estado de Mexico*

Poster: Teaching Text-based Programming in a Blocks-based World  
*David Weintrop, Northwestern University*  
*Uri Wilensky, Northwestern University*  
*Jennifer Roscoe, Lane Tech College Prep*  
*Daniel Law, Lane Tech College Prep*

Poster: Summer Programming Boot Camp: A Strategy for Retaining Women in IT  
*Sonal Dekhane, Georgia Gwinnett College*  
*Kristine Nagel, Georgia Gwinnett College*  
*Nannette Napier, Georgia Gwinnett College*

Poster: Predicting Student Performance using Commit Logs and Source Code Analysis  
*Chris Mulligan, Columbia University*  
*Ruchir Khaitan, Columbia University*  
*Samir Mathrani, Columbia University*  
*Jae Woo Lee, Columbia University*  
*Julia Hirschberg, Columbia University*
Poster: Evaluating Scratch programs to assess computational thinking in a science lesson
Jennifer Albert, North Carolina State University
Barry Peddy cord III, North Carolina State University
Tiffany Barnes, North Carolina State University

Poster: Integrating Cutting Edge Devices to Increase Student Retention in Programming
Evelyn Brannock, Georgia Gwinnett College
Robert Lutz, Georgia Gwinnett College
Mai Yin Tsoi, Georgia Gwinnett College

Poster: E-Assess: A Web-based tool for Coordinating and Managing Program Assessment
Jean H. French, Coastal Carolina University
D. Brian Larkins, Coastal Carolina University

Poster: CS2013 Assessment Exam
E Kent Palmer, MacMurray College
Terry Linkletter, Central Washington University
Paulette Alexander, University of North Alabama
Kewal Dhariwal, Institute for Certification of Computing Professionals
Indira R. Guzman, Trident University International
James McGuffee, Northern Kentucky University
Patricia L. Roden, University of North Alabama

Poster: Case studies of use: Creating counselor champions for change in K12 computing education
Sarah Hug, ATLAS Institute, University of Colorado
Jane Krauss, National Center for Women & Information Technology

Poster: A Qualitative Analysis of Students’ Difficulties with the Quicksort Algorithm Using Arrays
Amit Maor, Claremont McKenna College/Harvey Mudd College

Poster: STEM Careers Infographic Project (SCIP): Teaching Media-Based Computational Thinking Practices
Brittany Ann Kos, University of Colorado Boulder

Poster: Algorithmic Thinking: Programs that Solve Well-defined Visual Problems
Elodie Fourquet, Colgate University

Poster: Culturally Responsive Computing: An in-depth examination of practices and outcomes in COMPUGIRLS
Catherine Ashcraft, National Center for Women & IT

Poster: Students’ (Mis)Understanding of Dictionaries
Emily Stansbury, Harvey Mudd College
Poster: It’s Not Just About Functionality Anymore: Expanding Student Projects with Web Ecosystems
Samuel Rebelsky, Grinnell College

Poster: “Maker Innovators”: A Curriculum for Youth-created Wearable Game Design and Physical Computing through Electronic Textiles, Tangible Toolkits and Scratch
Gabriela Richard, University of Pennsylvania
Yasmin Kafai, University of Pennsylvania

Poster: Using Big Data and BKT to Evaluate Course Resources
Zachary MacHardy, UC Berkeley
Dan Garcia, UC Berkeley

FRIDAY 10:45 AM - 12:00 PM

Papers: Student Engagement: Self Explanation (room: 2502A) Fri 10:45 AM - 12:00 PM

10:45 AM Expressions of Abstraction: Self-Explanation in Code Production
Leigh Ann DeLyser, CSNYC

11:10 AM Generating Practice Questions as a Preparation Strategy for Introductory Programming Exams
Paul Denny, The University of Auckland

11:35 AM Benefits of Self-explanation in Introductory Programming
Arto Vihavainen, University of Helsinki
Craig S. Miller, DePaul University
Amber Settle, DePaul University

Papers: Focus on K-12: Professional Development (room: 3501C) Fri 10:45 AM - 12:00 PM

10:45 AM Growing a K-12 Community of Practice
Susan H. Rodger, Duke University
Stephen Cooper, Stanford University
Wanda Dann, Carnegie Mellon University
Madeleine Schep, Columbia College
RoxAnn Stalvey, College of Charleston

11:10 AM Computing on the Silicon Prairie: The State of CS in Nebraska Public Schools
Brian Dorn, University of Nebraska at Omaha
Derek Babb, Omaha North High School
Dawn Nizzi, Westside High School Career Center
Cory Epler, Nebraska Department of Education
11:35 AM Supporting CS10K: A New Computer Science Methods Course for Mathematics Education Students
Robin Flatland, Siena College Computer Science
Darren Lim, Siena College Computer Science
James Matthews, Siena College Computer Science
Scott Vandenberg, Siena College Computer Science

10:45 AM Using a Message Board as a Teaching Tool in an Introductory Cyber-Security Course
Christopher Brown, United States Naval Academy
Zachary Dannelly, United States Naval Academy
Raymond Greenlaw, United States Naval Academy
Andrew Phillips, United States Naval Academy
Sarah Standard, AVIAN LLC

11:10 AM Further Evaluations of Industry-Inspired Pair Programming Communication Guidelines with Undergraduate Students
Mark Zarb, Robert Gordon University
Janet Hughes, University of Dundee
John Richards, IBM T.J. Watson Research Center

11:35 AM Supporting Programming Assignments with Activity Streams: An Empirical Study
Christopher Hundhausen, Washington State University
Adam Carter, Was
Olusola Adesope, Wa

10:45 AM Hands-On Network Programming Projects in the Cloud
Weiying Zhu, Metropolitan State University of Denver

11:10 AM Teaching Cybersecurity Analysis Skills in the Cloud
Richard Weiss, The Evergreen State College
Stefan Boesen, Dartmouth College
James Sullivan, University of Calgary
Michael Locasto, University of Calgary
Jens Mache, Lewis & Clark College
Erik Nilsen, Lewis & Clark College

11:35 AM A Cloud Computing Course: From Systems To Services
M. Suhail Rehman, Carnegie Mellon University
Jason Boles, Carnegie Mellon University in Qatar
Mohammad Hammoud, Carnegie Mellon University in Qatar
Majd F. Sakr, Carnegie Mellon University
## Special Session (room: 3501H)  
**Fri 10:45 AM - 12:00 PM**

**Budget Beowulfs: A Showcase of Inexpensive Clusters for Teaching PDC**

- **Joel Adams, Calvin College**
- **Suzanne Matthews, U.S. Military Academy**
- **Charles Peck, Earlham College**
- **Elizabeth Shoop, Macalester College**
- **David Toth, Centre College**

## Panel (room: 3501G)  
**Fri 10:45 AM - 12:00 PM**

**Using App Inventor in Introductory CS Courses**

- **Meimei Gao, Mercer County Community College**
- **Julie Johnson, Vanderbilt University**
- **Dale Reed, University of Illinois at Chicago**
- **Cate Sheller, Kirkwood Community College**
- **Franklyn Turbak, Wellesley College**

## Panel (room: 2505A)  
**Fri 10:45 AM - 12:00 PM**

**Research, Resources and Communities: Informal Ed as a Partner in Computer Science Education**

- **Cameron L. Fadjo, Google, Inc.**
- **Betsy DiSalvo, Georgia Institute of Technology**
- **Irene Lee, Santa Fe Institute**
- **Karen Peterson, National Girls Collaborative Project**

## Supporter Session (room: TBA)  
**Fri 10:45 AM - 12:00 PM**

**Oracle**

## Supporter Session (room: TBA)  
**Fri 10:45 AM - 12:00 PM**

**Teradata**

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**FRIDAY 12:00 PM - 1:45 PM**

**LUNCH: on your own**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
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<tr>
<td>FRIDAY</td>
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<tr>
<td>1:45 PM</td>
<td>Papers: CS Education Research (room: 2502A)</td>
<td>Recursion vs. Iteration: An Empirical Study of Comprehension Revisited</td>
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<tr>
<td></td>
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<td>Renee McCauley, College of Charleston</td>
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<td>Brian Hanks, BFH Educational Consulting</td>
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<td>Sue Fitzgerald, Metropolitan State University</td>
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<td>Laurie Murphy, Pacific Lutheran University</td>
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<td>2:10 PM</td>
<td></td>
<td>Tracking Student Learning from Class to Exam using Isomorphic Questions</td>
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<td>Daniel Zingaro, University of Toronto Mississauga</td>
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<td>Leo Porter, University of California, San Diego</td>
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<td>2:35 PM</td>
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<td>The Effectiveness of Visualization for Learning Expression Evaluation</td>
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<td>Amruth Kumar, Ramapo College of New Jersey</td>
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<td>1:45 PM</td>
<td>Papers: Focus on K-12: Professional Development (room: 3501C)</td>
<td>Analyzing Year One of a CS Principles PD Project</td>
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<td>Ralph Morelli, Trinity College</td>
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<td>Chinma Uche, Connecticut Chapter, Computer Science Teachers Association</td>
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<td>Pauline Lake, Trinity College</td>
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<td>Lawrence Baldwin, Baldwin Research Consultancy</td>
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<td>2:10 PM</td>
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<td>Field Experiences in Teaching Computer Science: Course Organization and</td>
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<td>Reflections</td>
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<td>Lori Pollock, University of Delaware</td>
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<td>Chrystalla Mouza, University of Delaware</td>
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<td>James Atlas, University of Delaware</td>
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<td>Terry Harvey, University of Delaware</td>
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<td>2:35 PM</td>
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<td>A Mid-Project Report on a Statewide Professional Development Model for</td>
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<td>CS Principles</td>
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<td>Jeff Gray, University of Alabama</td>
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<td>Kathy Haynie, Haynie Research and Evaluation</td>
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<td>Sheryl Packman, Gator Analytics</td>
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<td>Mary Boehm, A+ College Ready</td>
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<td>Carol Crawford, A+ College Ready</td>
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<td>Deepa Muralidhar, Atlanta Girls School</td>
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<td>1:45 PM</td>
<td><strong>Papers: Student Engagement: Active Learning (room: 3501D)</strong> Fri 1:45 PM - 3:00 PM</td>
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</table>
| 1:45 PM | Integrating Role-Playing Games into Computer Science Courses as a Pedagogical Tool  
*David Toth, Centre College*  
*Mary Kayler, University of Mary Washington* |
| 2:10 PM | Structuring Flipped Classes with Lightweight Teams and Gamification  
*Celine Latulipe, University of North Carolina at Charlotte*  
*Bruce Long, University of North Carolina at Charlotte*  
*Carlos Seminario, University of North Carolina at Charlotte* |
| 2:35 PM | Blending Problem- and Project-Based Learning in Internet of Things Education:  
*Case Greenhouse Maintenance*  
*Hanna Mäenpää, University of Helsinki*  
*Sasu Tarkoma, University of Helsinki*  
*Samu Varjonen, University of Helsinki*  
*Arto Vihavainen, University of Helsinki* |
| 1:45 PM | **Papers: Testing: Improving Quality of Student Testing (room: 2503A)** Fri 1:45 PM - 3:00 PM |
| 1:45 PM | Can the Security Mindset Make Students Better Testers?  
*Sara Hooshangi, The George Washington University*  
*Richard Weiss, The Evergreen State College*  
*Justin Cappos, NYU* |
| 2:10 PM | An Empirical Study of Iterative Improvement in Programming Assignments  
*Raymond Pettit, Abilene Christian University*  
*John Homer, Abilene Christian University*  
*Susan Mengel, Texas Tech University*  
*Roger Gee, Abilene Christian University*  
*Adam Starbuck, Abilene Christian University* |
| 2:35 PM | Reconsidering Automated Feedback: A Test-Driven Approach  
*Kevin Buffardi, California State University, Chico*  
*Stephen H. Edwards, Virginia Tech* |
### Papers: Beyond CS2: OS/Virtualization (room: 3501E)  
Fri 1:45 PM - 3:00 PM

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1:45 PM</td>
<td>MC-Live: A Portable Computing Environment for Computer Science Students</td>
<td><em>Lee Wittenberg, Maryville College</em></td>
</tr>
</tbody>
</table>
| 2:10 PM| Teaching Virtualization by Building a Hypervisor                      | *Abhinand Palicherla, Tintri, Inc.*  
*Tao Zhang, Stony Brook University*  
*Donald Porter, Stony Brook University* |
| 2:35 PM| MiniOS: an instructional platform for teaching operating systems projects | *Rafael Roman Otero, University of Northern British Columbia*  
*Alex Aravind, University of Northern British Columbia* |

### Special Session (room: 3501G)  
Fri 1:45 PM - 3:00 PM

**Special Session (room: 3501H)  
Fri 1:45 PM - 3:00 PM**

**Supporter Session (room: TBA)  
Fri 1:45 PM - 3:00 PM**

- **Google**

**Supporter Session (room: TBA)  
Fri 1:45 PM - 3:00 PM**

- **TBA**
FRIDAY 3:00 PM - 3:45 PM
Break, Exhibits, Demos & Posters

Demo: Exploring computer science topics with programmable smartwatches
  Shuo Niu, Virginia Tech
  Andrey Esakia, Virginia Tech
  Scott McCrickard, Virginia Tech

Demo: ENGAGE: A Game-based Learning Environment for Middle School Computational Thinking
  Kristy Boyer, North Carolina State University
  Philip Buffum, North Carolina State University

Poster: Student Board-Writing to Integrate Communication Skills and Content to Enhance Student Learning
  Mark Hoffman, Quinnipiac University

Poster: Correlating ACM Core IT Learning Outcomes with Associate Degree and Certificate Programs
  Cara Tang, Portland Community College
  Cindy Tucker, Bluegrass Community and Technical College
  Elizabeth Hawthorne, Union County College

Poster: Madeup: A Language for Making Things Up
  Chris Johnson, University of Wisconsin, Eau Claire
  Peter Bui, University of Wisconsin, Eau Claire

Poster: Student Discovery of Network Security Ethics
  Alisa Neeman, University of Rio Grande
  Michael Snider, University of Rio Grande
  Allen Hudson, University of Rio Grande

Poster: Extending SQL Auto-Grading to DML and DDL Statements
  Carsten Kleiner, University of Applied Sciences & Arts Hannover
  Felix Heine, University of Applied Sciences & Arts Hannover
  Bastian Fischer, University of Applied Sciences & Arts Hannover

Poster: Conflict-Driven Cooperative-Learning in Computing Courses
  Swaroop Joshi, The Ohio State University
  Neelam Soundarajan, The Ohio State University
  Rajiv Ramnath, The Ohio State University

Poster: A Nearest Neighbors Analysis of Student Academic Performance in Computer Science
  R. Mitchell Parry, Appalachian State University
Poster: Integrating Mobile Computing and Security into a Computer Science Curriculum  
Xiaohong Yuan, North Carolina A&T State University  
Kelvin Bryant, North Carolina A&T State University  
Kenneth Williams, North Carolina A&T State University  
Jinsheng Xu, North Carolina A&T State University

Poster: The Effects of Formal Undergraduate Research Experiences on Student Aspirations for Graduate Study in Computer Science: Explaining the Relative Influence of Racial Identity Status  
Ama Nyame-Mensah, Computing Research Association, Center for Evaluating the Research Pipeline

Poster: CSteach: Engaging Latino/a Youth in Computer Science with Social Justice and Near Peers  
Louise Ann Lyon, ETR  
Jill Denner,  
Jacob Martinez, Digital NEST

Poster: Security Injections 2.0: Using Segmentation, Instant-feedback, and Auto-grading to Enhance Secure Coding Modules for Lower-level Programming Courses  
Sagar Raina, Towson University  
Blair Taylor, Towson University  
Siddharth Kaza, Towson University

Poster: Conceptum: An Online Infrastructure for Concept Inventories  
Gautam Mohan, Swarthmore College  
Benjamin Rempel, Oberlin College  
Eli Rosenberg, Oberlin College  
David Wurtele, Swarthmore College  
Cynthia Taylor, Oberlin College  
Kevin Webb, Swarthmore College

Poster: Raspberry HadoopPI: A Low-Cost, Hands-On Laboratory in Big Data and Analytics  
Kenneth Fox, Drexel University College of Computing and Informatics  
William Mongan, Drexel University College of Computing and Informatics  
Jeffrey Popyack, Drexel University College of Computing and Informatics

Poster: The State of CS Circles: Open Source and Outreach with an Introductory Python Website  
David Pritchard, University of Southern California

Poster: Building the Pascaline: Digital Computing Like It’s 1642  
David Touretzky, Carnegie Mellon University
Poster: Using Workflow Technology to Create Scenario-based Workflows for Information Security Education
Wu He, Old Dominion University
Ashish Kshirsagar, Old Dominion University
Alexander Nwala, Old Dominion University
Yaohang Li, Old Dominion University

Poster: Gender Differences in High School Students’ Decisions to Study Computer Science and Related Fields
Hai Hong, Google Inc.
Jennifer Wang, Google Inc.
Jason Ravitz, Google Inc.
Mo-Yun Lei Fong, Google Inc.

Poster: Learning from What Works: Improving an Introductory Computing Course for Architects with Teaching Methods from Media Computation
Nicholas Senske, University of North Carolina at Charlotte

Poster: MIPSUnit: A Unit Testing Framework for MIPS Assembly
Zachary Kurmas, Grand Valley State University
Jack Rosenhauer, Grand Valley State University

Poster: Poster Proposal: A Web-based Simulator for Learning Multiprocessor Real-time Scheduling
Yuting Zhang, Boston University Metropolitan College
Xin Shan, Boston University Metropolitan College
Yingyuan Zhang, Boston University Metropolitan College
Juejie Wang, Boston University Metropolitan College

Poster: Teaching Debugging Skills in Shader-Based Computer Graphics Programming
Ying Zhu, Georgia State University
G Scott Owen, Georgia State University

Poster: Developing Computational Thinking through Image Making and Constructionist Learning
Eileen Fordham, Grinnell College
Halley Freger, Grinnell College
Amanda Hinchman-Dominguez, Grinnell College
Alexander Mitchell, Grinnell College
Daniel Rebelsky, Grinnell College
Victoria Tsou, Grinnell College
Earnest Wheeler, Grinnell College
Zoe Wolter, Grinnell College
Samuel Rebelsky, Grinnell College
Poster: Smartwatches for CS education: exercising HCI, Usability Engineering and Software Engineering
Andrey Esakia, Virginia Tech

Poster: A Gateway Game to Make Computational Problem-Solving Accessible and Engaging
Emmett Tomai, University of Texas - Pan American
Roberto Flores, University of Texas - Pan American
Casey Richardson, University of Texas - Pan American
Jose Rojas, University of Texas - Pan American
Julio Oliva, University of Texas - Pan American
German Zuniga, University of Texas - Pan American

Poster: Oh, Snap! Enabling and Encouraging Success in CS1
Michael Ball, UC Berkeley
Lauren Mock, UC Berkeley
Jonathan McKinsey, UC Berkeley
Zachary Machardy, UC Berkeley
Omoju Miller, UC Berkeley
Daniel Garcia, UC Berkeley
Nathaniel Titterton, UC Berkeley
Brian Harvey, UC Berkeley
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<tr>
<td>3:45 PM</td>
<td>Correlation of Topic Model and Student Grades Using Comment Data Mining</td>
<td>Shaymaa Sorour, Kyushu University</td>
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<td>Kazumasa Goda, Kyushu Institute of Information Science</td>
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<td>Tsunenori Mine, Kyushu university</td>
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<td>4:10 PM</td>
<td>Bats, Balls, and Lures: Cognitive Style in CS Education</td>
<td>Barry Wittman, Elizabethtown College</td>
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<td>Jean Pretz, Elizabethtown College</td>
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<td>4:35 PM</td>
<td>SOLO Taxonomy for Assessing Novices’ Algorithmic Design</td>
<td>David Ginat, Tel-Aviv University</td>
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<td>Eti Menashe, Tel-Aviv University</td>
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<td>3:45 PM</td>
<td>What Does It Take to Do Computer Programming? Surveying the K-12 Students’ Conceptions</td>
<td>Antti-Jussi Lakanen, Mathematical Information Technology, University of Jyväskylä</td>
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<td>Ville Isomöttönen, Mathematical Information Technology, University of Jyväskylä</td>
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<td>4:10 PM</td>
<td>Engaging High School Students in Modeling and Simulation through Educational Media</td>
<td>David Musicant, Carleton College</td>
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<td>S. Selcen Guzey, Purdue University</td>
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<td>4:35 PM</td>
<td>An Analysis of User Engagement in Relation to Computing Workshop Activities</td>
<td>Rachel Menzies, University of Dundee</td>
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<td>Michael Crabb, University of Dundee</td>
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<td>Daniel Herron, University of Dundee</td>
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<td>Karen Petrie, University of Dundee</td>
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<td>Craig Stewart, University of Dundee</td>
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<td>Mark Zarb, Robert Gordon University</td>
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### Papers: Testing: Tools & Techniques (room: 3501E)

**Fri 3:45 PM - 5:00 PM**

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<tr>
<td>3:45 PM</td>
<td><strong>Unci:</strong> a C++-based Unit-testing Framework for Intro Students</td>
<td><em>Don Blaheta, Longwood University</em></td>
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| 4:10 PM| **Bug Infestation!** A Goal-Plan Analysis of CS2 Students' Recursive Search Tree Solutions | *Laurie Murphy, Pacific Lutheran University*  
*Sue Fitzgerald, Metropolitan State University*  
*Scott Grissom, Grand Valley State University*  
*Renée McCauley, College of Charleston* |
| 4:35 PM| **Ante Up:** A Framework to Strengthen Student-Based Testing of Assignments | *Michael Bradshaw, Centre College*                                                               |

### Papers: Soft Skills: Teamwork (room: 2503A)

**Fri 3:45 PM - 5:00 PM**

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<th>Time</th>
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| 3:45 PM| **On the Evaluation of Student Team Software Development Projects**  | *Anya Tafliovich, University of Toronto Scarborough*  
*Andrew Petersen, University of Toronto Mississauga*  
*Jennifer Campbell, University of Toronto* |
| 4:10 PM| **An Experience Report at Teaching Group Based Agile Software Engineering Teams** | *Craig Anslow, University of Calgary*  
*Frank Maurer, University of Calgary* |
| 4:35 PM| **An Experience Report: Using Mobile Development To Teach Software Design** | *Jennifer Campbell, University of Toronto*  
*Anya Tafliovich, University of Toronto Scarborough* |
<table>
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<tr>
<th>Lightning Talks (room: 3501D)</th>
<th>Fri 3:45 PM - 5:00 PM</th>
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</table>
| **Montessori Methods + A Living Textbook > Traditional Computer Science Instruction**  
  *Nicole Anderson, Winona State University*  
  *Tim Gegg-Harrison, Winona State University* |
| coaster: Teaching Computer Graphics Incrementally  
  *Robert R. Lewis, Washington State University, Tri-Cities* |
| Hugging & Bridging: What it is and why you should be doing it!  
  *Shuchi Grover, Stanford University* |
| Making Computer Science a First-Class Object in the K-12 Next Generation Science Standards  
  *Marie Bienkowski, SRI International* |
| Launching CROMA: Computational Research On Music & Audio  
  *David Heise, Lincoln University* |
| Integrating Programming into Physics and Algebra Courses  
  *Eric Freudenthal, University of Texas at El Paso*  
  *Kien Lim, University of Texas at El Paso*  
  *Karla Carmona, University of Texas at El Paso*  
  *Catherine Tabor, El Paso Education Initiative* |
| HFOSS-Lite in CS 2: Incorporating the Ushahidi Crowdmapping Program in a Data Structures and Algorithms Course  
  *Samuel Rebelsky, Grinnell College* |
| A Peer Tutoring Model for Small Schools with Limited Funding and Resources  
  *Dee Weikle, Eastern Mennonite University* |
| An Across-Institution Anytime MOOC in Database  
  *Douglas Fisher, Vanderbilt University* |
| The Need for Voices in CS to Address the #GamerGate Controversy  
  *Joseph Kendall-Morwick, Capital University* |
| Learning Computer Networking Through Illustration  
  *Wen-Jung Hsin, Park University* |
Special Session (room: 3501G) Fri 3:45 PM - 5:00 PM
Perspectives on Adopting and Facilitating Guided Inquiry Learning
Helen Hu, Westminster College
Clifton Kussmaul, Muhlenberg College
Deepa Muralidhar, Atlanta Girls School
Kristine Nagel, Georgia Gwinnett College

Special Session (room: 2505A)  Fri 3:45 PM - 5:00 PM
Introduction to AccessCS10K and Accessible Tools for Teaching Programming
Andreas Stefik, University of Nevada, Las Vegas
Richard Ladner, University of Washington

Panel (room: 3501H)  Fri 3:45 PM - 5:00 PM
One-Day Activities for K-12 Face-to-Face Outreach
Daniel D. Garcia, UC Berkeley
Wei Ding, University of Massachusetts, Boston
Joseph Cohen, University of Massachusetts, Boston
Barbara Ericson, Georgia Institute of Technology
Jeff Gray, University of Alabama
Dale Reed, University of Illinois at Chicago

Supporter Session (room: TBA)  Fri 3:45 PM - 5:00 PM
GitHub

FRIDAY 7:00 PM - 10:00 PM
Workshops

Workshop #8: A Swift Introduction to Swift App Development (room: 2502A)
Michael Rogers, Northwest Missouri State University
Bill Siever, Western Illinois University

Workshop #9: Conducting educational research in the computer science classroom: Choosing the appropriate research design to address your research questions. (room: 3501H)
Aman Yadav, Michigan State University

Workshop #10: Pencil Code: Bridging the Gap between Visual and Text-based CS Education (room: 2502B)
David Bau, Google
Matthew Dawson, Google
Anthony Bau, Phillips Exeter Academy

Workshop #11: Teaching Cryptography and Access Control Hands-on (room: 3501E)
Steve Carr, Western Michigan University
Melissa Keranen, Michigan Technological University
Jean Mayo, Michigan Technological University
Workshop #12: Bridging the Divide: Developing Culturally-Responsive Curriculum for K-12 Computer Science Education (room: 2503B)
  A. Nicki Washington, Howard University
  Legand Burge, Howard University
  Marlon Mejias, Howard University
  Ketly Jean-Pierre, Howard University
  Qi’Anne Knox, Howard University

Workshop #13: On Beyond Sudoku: Pencil Puzzles for Introductory Computer Science (room: 2504A)
  Zack Butler, Rochester Institute of Technology
  Ivona Bezakova, Rochester Institute of Technology

Workshop #14: How to Plan and Run Summer Computing Camps - Logistics (room: 2505B)
  Marguerite Doman, Winthrop University
  Barbara Ericson, Georgia Institute of Technology
  Kristine Nagel, Georgia Gwinnett College
  Nannette Napier, Georgia Gwinnett College
  Krishnendu Roy, Valdosta State University

Workshop #15: Small or Liberal Arts Colleges Adapting to CS2013: Making It Work (room: 3501C)
  Andrea Danyluk, Williams College
  Michael Jipping, Hope College
  Rhys Price Jones, Wellesley College
  David Reed, Creighton University
  Brad Richards, University of Puget Sound
  Richard Wicentowski, Swarthmore College

Workshop #16: Steal This Courseware: FOSS, Github, Flask, and OpenShift (room: 2503A)
  Stephen Jacobs, RIT Center for Media, Arts, Games, Interaction and Creativity (MAGIC)
  Remy DeCausemaker, RIT Center for Media, Arts, Games, Interaction and Creativity (MAGIC)

Workshop #17: The Internet, Creativity and Global Impact: Curriculum Modules for the new AP Computer Science Principles course (room: 3501D)
  Lien Diaz, College Board, Advanced Placement Program
  Richard Kick, Newbury Park High School
  Andrew Kuemmel, Madison West High School

Workshop #18: Games, Phones, and Programming in the Classroom (room: 3501G)
  Veronica Catete, NC State University
  Barry Peddycord III, NC State University
  Tiffany Barnes, NC State University

Workshop #19: Infusing Cooperative Learning into Early Computer Science Courses to Support Improved Engagement (room: 3501F)
  Jeff Gray, University of Alabama
  Fran Trees, Rutgers University
  Owen Astrachan, Duke University
### SATURDAY 9:00 AM - 10:15 AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>37 Million Compilations: Investigating Novice Programming Mistakes in Large-Scale Student Data</td>
<td>Amjad Altadmri, University of Kent, Neil C. C. Brown, University of Kent</td>
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<tr>
<td>9:25 AM</td>
<td>Looking Glass: A C++ Library for Testing Student Programs through Reflection</td>
<td>Scott Turner, UNC Pembroke</td>
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<tr>
<td>9:00 AM</td>
<td>Using SOLO to Classify the Programming Responses of Primary Grade Students</td>
<td>Linda Seiter, John Carroll University</td>
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<tr>
<td>9:25 AM</td>
<td>Floors and Flexibility: Designing a programming environment for 4th-6th grade classrooms</td>
<td>Charlotte Hill, UC Santa Barbara, Hilary Dwyer, UC Santa Barbara, Tim Martinez, UC Santa Barbara, Danielle Harlow, UC Santa Barbara, Diana Franklin, UC Santa Barbara</td>
</tr>
<tr>
<td>9:50 AM</td>
<td>Getting Started Teaching and Researching Computer Science in the Elementary Classroom</td>
<td>Diana Franklin, UC Santa Barbara, Charlotte Hill, UC Santa Barbara, Hilary Dwyer, UC Santa Barbara, Ashley Iveland, UC Santa Barbara, Alexandria Killian, UC Santa Barbara, Danielle Harlow, UC Santa Barbara</td>
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</table>
# Papers: Non-majors/Interdisciplinary (room: 2503A)  
**Sat 9:00 AM - 10:15 AM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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</table>
| 9:00 AM| Improving Non-CS Major Performance in CS1                           | Victor Norman, Calvin College  
            Joel Adams, Calvin College                                     |
| 9:25 AM| Can We "Flip" Non-Major Programming Courses Yet?                    | Douglas Baldwin, SUNY Geneseo                                          |
| 9:50 AM| Evaluating Pair-Programming for Non-Computer Science Major Students | Clem O’Donnell, University of Limerick  
            Jim Buckley, University of Limerick  
            Abdulhussain Mahdi, University of Limerick  
            John Nelson, University of Limerick  
            Michael English, University of Limerick |

# Papers: Focus on K-12: Outreach/Summer Camps (room: 3501D)  
**Sat 9:00 AM - 10:15 AM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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</table>
| 9:00 AM| From 9 to 90: Engaging Learners of All Ages                          | Allison Sauppé, University of Wisconsin–Madison  
            Daniel Szafir, University of Wisconsin–Madison  
            Chien-Ming Huang, University of Wisconsin–Madison  
            Bilge Mutlu, University of Wisconsin–Madiso |
| 9:25 AM| A Socio-Cognitive Analysis of Summer Camp Outcomes and Experiences   | Chulakorn Aritajati, The Pennsylvania State University, College of IST  
            Mary Beth Rosson, The Pennsylvania State University, College of IST  
            Joslenne Pena, The Pennsylvania State University, College of IST  
            Dana Cinque, The Pennsylvania State University, College of IST  
            Ana Segura, University of Houston-Downtown |
| 9:50 AM| Computational Bead Design: A Pilot Summer Camp in Computer Aided Design and 3D Printing for Middle School Girls | Courtney Starrett, Winthrop University  
            Marguerite Doman, Winthrop University  
            Chlotia Garrison, Winthrop University  
            Merry Sleigh, Winthrop University |

# Student Research Competition - undergraduate (room: 2502B)  
**Sat 9:00 AM - 10:15 AM**

# Student Research Competition - graduate (room: 2503B)  
**Sat 9:00 AM - 10:15 AM**
<table>
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<tr>
<th>Event Type</th>
<th>Room</th>
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<tr>
<td>Special Session (room: 3501G)</td>
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<tr>
<td>Big Data in Computer Science Education Research</td>
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<td>Orit Hazzan, Technion – Israel Institute of Technology</td>
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<td>Clifford Shaffer, Virginia Tech</td>
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<tr>
<td>Special Session (room: 2505A)</td>
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<td>Sat 9:00 AM - 10:15 AM</td>
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<td>Scaling High School Computer Science: Exploring Computer Science and Computer Science Principles</td>
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<td>Owen Astrachan, Duke University</td>
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<td>Ralph Morelli, Trinity College</td>
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<td>Jeff Gray, University of Alabama</td>
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<td>Gail Chapman, UCLA</td>
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<td>Panel (room: 2505B)</td>
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<tr>
<td>SPOCs: What, Why, and How</td>
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<td>Janet Burge, Wesleyan University</td>
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<td>Armando Fox, UC Berkeley</td>
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<td>Dan Grossman, University of Washington</td>
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<td>Gerald Roth, Vanderbilt University</td>
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<td>Joe Warren, Rice University</td>
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<tr>
<td>Panel (room: 3501H)</td>
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<td>Sat 9:00 AM - 10:15 AM</td>
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<tr>
<td>Technology We Can't Live Without!</td>
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<td>Daniel D. Garcia, UC Berkeley</td>
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<td>Eric Allatta, Academy for Software Engineering</td>
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<td>Manuel Pérez-Quiñones, Virginia Tech</td>
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<td>Jeff Solin, Lane Tech College Prep High School</td>
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<td>Supporter Session (room: TBA)</td>
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SATURDAY 10:15 AM - 10:45 AM
Break, Exhibits & Demos

Demo: JavaTutor: An Intelligent Tutoring System that Adapts to Cognitive and Affective States during Computer Programming
  Joseph Wiggins, North Carolina State University
  Kristy Boyer, North Carolina State University

Demo: MIST - The Mathematical Image Synthesis Toolkit
  Eileen Fordham, Grinnell College
  Halley Freger, Grinnell College
  Amanda Hinchman-Dominguez, Grinnell College
  Alexander Mitchell, Grinnell College
  Daniel Rebelsky, Grinnell College
  Victoria Tsou, Grinnell College
  Earnest Wheeler, Grinnell College
  Zoe Wolter, Grinnell College
  Samuel Rebelsky, Grinnell College

SATURDAY 10:45 AM - 12:00 PM

Papers: Teaching Practices (room: 2502A)  Sat 10:45 AM - 12:00 PM

10:45 AM  Insights into Teaching and Learning: Reflections on MOOC Experiences
  Janet Burge, Wesleyan University

11:10 AM  What Influences CS Faculty to Adopt Teaching Practices?
  Lecia Barker, University of Texas at Austin
  Gruning Jane, University of Texas at Austin
  Christopher Lynnly Hovey, Northeastern University

11:35 AM  Personalized Attention @ Scale - Talk isn't Cheap, but it's effective
  Dirk Grunwald, University of Colorado
  Elizabeth Boese, University of Colorado
  Rhonda Hoenigman, University of Colorado
  Andy Sayler, University of Colorado
  Judy Stafford, University of Colorado
### Papers: Focus on K-12: Miscellaneous topics (room: 3501C)  
Sat 10:45 AM - 12:00 PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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</table>
| 10:45 AM | Transferring Skills at Solving Word Problems from Computing to Algebra through Bootstrap | Emmanuel Schanzer, Harvard Graduate School of Education  
Kathi Fisler, WPI Computer Science  
Shriram Krishnamurthi, Brown University Computer Science  
Matthias Felleisen, Northeastern University College of Computer and Information Science |
| 11:10 AM | A Practical Guide to Developing and Validating Computer Science Knowledge Assessments with Application to Middle School | Philip Buffum, North Carolina State University  
Eleni Lobene, North Carolina State University  
Megan Frankosky, North Carolina State University  
Kristy Boyer, North Carolina State University  
Eric Wiebe, North Carolina State University  
James Lester, North Carolina State University |
| 11:35 AM | Reactive Game Engine Programming for STEM Outreach | Alan Cleary, Montana State University  
Lucas Vandenbergh, Western State Colorado University  
John Peterson, Western State Colorado University |

### Papers: Computers & Society (room: 2503A)  
Sat 10:45 AM - 12:00 PM

<table>
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<tr>
<th>Time</th>
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| 10:45 AM | Building CS Research Capacity in sub-Saharan Africa by Implementing a Doctoral Training Program | Mikko Apiola, University of Eastern Finland  
Jarkko Suhonen, University of Eastern Finland  
Abbi Nangawe, College of Business Education  
Erkki Sutinen, University of Eastern Finland |
| 11:10 AM | Engaging Non-Traditional Students in Computer Science through Socially-Inspired Learning and Sustained Mentoring | Jennifer Burg, Wake Forest University  
Paul Pauca, Wake Forest University  
William Turkett, Wake Forest University  
Fulp Errin, Wake Forest University  
Samuel Cho, Wake Forest University  
Santago Peter, Wake Forest University  
Daniel Canas, Wake Forest University  
H. Donald Gage, Wake Forest University |
| 11:35 AM | How much impact can be made in a week? Designing Effective International Service Learning Projects for Computing | Grace Ngai, Hong Kong Polytechnic University  
Stephen C.F. Chan, Hong Kong Polytechnic University |
Preliminary Program

SIGCSE 2015 Symposium

Papers: Beyond CS2: Networking/Security (room: 3501D)  Sat 10:45 AM - 12:00 PM

10:45 AM  Lowering the Barrier to Systems-level Networking Projects
  Joel Sommers, Colgate University

11:10 AM  A Simple Laboratory Environment for Real-World Offensive Security Education
  Maxim Timchenko, Boston University
  David Starobinski, Boston University

11:35 AM  An Educational Networking Framework for Full Layer Implementation and Testing
  Keunhong Lee, KAIST
  Joongi Kim, KAIST
  Sue Moon, KAIST

Special Session (room: 3501G)  Sat 10:45 AM - 12:00 PM

The CS Concept Inventory Quiz Show
  Nafeesa Dewji, University of British Columbia
  Steven Wolfman, University of British Columbia
  Geoffrey Herman, University of Illinois at Urbana-Champaign
  Leo Porter, University of California, San Diego
  Cynthia Taylor, Oberlin College
  Jan Vahrenhold, Westfälische Wilhelms-Universität Münster

Panel (room: 2505A)  Sat 10:45 AM - 12:00 PM

Bringing Grades K-5 to the Mainstream of Computer Science Education
  Katie Apone, Code.org
  Marina Bers, Tufts University
  Karen Brennan, Harvard University
  Diana Franklin, UC Santa Barbara
  Maya Israil, University of Illinois at Urbana Champaign
  Pat Yongpradit, Code.org
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<tr>
<td><strong>Special Session (room: 3501H)</strong></td>
<td>Sat 10:45 AM - 12:00 PM</td>
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<tr>
<td>Nifty Assignments</td>
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<tr>
<td><strong>Nick Parlante, Stanford University</strong></td>
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<td><strong>Julie Zelenski, Stanford University</strong></td>
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<td><strong>Suzanne Matthews, United States Military Academy</strong></td>
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<td><strong>David Raymond, Army Cyber Institute</strong></td>
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<td><strong>Peter-Michael Osera, University of Pennsylvania</strong></td>
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<td><strong>Stuart Reges, University of Washington</strong></td>
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<td><strong>Luther Tychonievich, University of Virginia</strong></td>
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<td><strong>Mark Sherriff, University of Virginia</strong></td>
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<td><strong>Ryan Layer, University of Virginia</strong></td>
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<td><strong>Josh Hug, UC Berkeley</strong></td>
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<td><strong>Marty Stepp, Stanford University</strong></td>
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<td><strong>Allison Obourn, University of Washington</strong></td>
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| **Supporter Session (room: TBA)**    | Sat 10:45 AM - 12:00 PM |
| TBA                                  |                |
SATURDAY 12:00 PM - 2:00 PM
Luncheon
Keith Hampton, Associate Professor, Rutgers University

SATURDAY 3:00 PM - 6:00 PM
Workshops

Workshop #20: Computer Science Principles with EarSketch (room: 3501E)
- Jason Freeman, Georgia Institute of Technology
- Brian Magerko, Georgia Institute of Technology
- Douglas Edwards, Georgia Institute of Technology
- Regis Verdin, Georgia Institute of Technology

Workshop #21: Teaching Computing with Processing, the Bridge between High School and College (room: 3501F)
- Aaron Cadle, Arlington ISD
- Ira Greenberg, Southern Methodist University
- Deepak Kumar, Bryn Mawr College
- Darby Thompson, Sidwell Friends School
- Ursula Wolz, RiverSound Solutions
- Dianna Xu, Bryn Mawr College

Workshop #22: Supporting new Adopters to Peer Instruction in Computing (room: 2502A)
- Daniel Zingaro, University of Toronto Mississauga
- Leo Porter, University of California, San Diego
- Quintin Cutts, University of Glasgow
- John Glick, University of San Diego
- Joe Hummel, University of Illinois at Chicago
- Cynthia Lee, Stanford University
- Jaime Spacco, Knox College

Workshop #23: Reviewing NSF Proposals: Learn about Effective Proposal Writing via the Review Process (room: 2502B)
- Paul Tymann, National Science Foundation
- Michael Erlinger, National Science Foundation

Workshop #24: Creating Stimulating, Relevant, and Manageable Introductory Computer Science Projects that Utilize Real-Time, Large, Web-Based Datasets (room: 2503A)
- Eli Tilevich, Dept. of Computer Science, Virginia Tech
- Clifford Shaffer, Dept. of Computer Science, Virginia Tech
- Austin Cory Bart, Dept. of Computer Science, Virginia Tech

Workshop #25: Building Code Magnet Labs for Tablets and Other Devices (room: 2503B)
Workshop #26: Introducing Secure Coding in CS0, CS1, and CS2 (room: 2504A)
Siddharth Kaza, Towson University
Blair Taylor, Towson University
Elizabeth Hawthorne, Towson University

Workshop #27: Puzzle-Based Learning: Introducing Creative Thinking and Problem Solving for Computer Science and Engineering (room: 2505B)
Raja Sooriamurthi, Carnegie Mellon University
Nickolas Falkner, University of Adelaide
Ed Meyer, Baldwin Wallace University
Zbigniew Michalewicz, University of Adelaide

Workshop #28: KELP CS and LaPlaya: A computational thinking curriculum and development environment for 4th – 6th grade (room: 3501C)
Diana Franklin, UC Santa Barbara
Charlotte Hill, UC Santa Barbara
Hilary Dwyer, UC Santa Barbara

Workshop #29: Teaching Privacy: What Every Student Needs to Know (room: 3501D)
Gerald Friedland, International Computer Science Institute
Serge Egelman, International Computer Science Institute
Daniel Garcia, UC Berkeley

Workshop #30: Decoding CS Principles - A Curriculum from Code.org (room: 3501G)
Baker Franke, Code.org
Brook Osborne, Code.org