

Kristen R. Walcott

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Education

- University of Virginia, Charlottesville, VA** May 2012
Ph.D in Computer Science
Advisor: Mary Lou Soffa
Topic: *Testing in Resource-Constrained Environments*
- University of Virginia, Charlottesville, VA** May 2007
Master of Computer Science
Advisor: Sudhanva Gurumurthi
Topic: *Dynamic Prediction of Architectural Vulnerability from Microarchitectural State*
- Allegheny College, Meadville, PA** May 2005
Bachelor of Science, Computer Science and Mathematics, *magna cum laude*
Advisor: Gregory M. Kapfhammer (Computer Science)
Topic: *Prioritizing Regression Test Suites for Time-Constrained Execution Using Genetic Algorithms*
Advisor: Tamara Lakins (Mathematics)
Topic: *Analysis and Applications of Burnside's Theorem*

Professional Experience

- Department of Computer Science** Aug 12 – Present
University of Colorado- Colorado Springs
 - Program Director for Masters of Engineering in Software Engineering program
 - Assistant Professor
- Instructor, Department of Computer Science, University of Virginia** Fall 2011
- Graduate Research Assistant** May 06 – May 12
 - Conducted research under the advisement of Dr. Mary Lou Soffa in software testing.
- Teaching Assistant, Dept. of Computer Science, University of Virginia** Aug 05 – May 06
 - Information Assurance Graduate Seminar, CS 651
 - Introduction to Computing, CS 101
 - Computer Science from Ada and Euclid to Quantum Computing and the WWW, CS 150
- Teaching Assistant, Dept. of Computer Science, Allegheny College** Aug 02 – May 05
 - Introduction to Computer Science I, CS 101
 - Introduction to Computer Science II, CS 102

Refereed Publications

James Klein and Kristen R. Walcott. "Exploiting Telnet Security Flaws in the Internet of Things." To appear in the Proceedings of the Future of Information and Communications Conference (FICC). March 2019. (39% acceptance rate)

Darin Weffenstette and Kristen R. Walcott. "DynaMut: A Mutation Testing Tool for Industry-Level Embedded System Applications." To appear in the International Journal of Embedded Systems and Applications (IJESA), Volume 8, September 2018. (15% acceptance rate)

Dustin Bingham and Kristen R. Walcott. "StaticMock: A Mock Object Framework for Compiled Languages." In the International Journal of Software Engineering & Applications (IJSEA), Volume 9, Number 4, July 2018. (28% acceptance rate)

Cody Hanson and Kristen R. Walcott. "'NETCDL: The Network Certification Description Language." In the International Journal of Computational Science, Information Technology, and Control Engineering (IJSITCE), Volume 5, Number 3, July 2018. (33.3% acceptance rate)

Poorani Dharmasivam and Kristen R. Walcott. "LDTT: A Low Level Driver Unit Testing Tool." In the International Journal of Software Engineering & Applications (IJSEA), Volume 9, Number 4, July 2018. (28% acceptance rate)

Sarojini Balasubramanian and Kristen R. Walcott. "Characterization of open-source applications and test suites." In the International Journal of Software Engineering & Applications (IJSEA), Volume 9, Number 4, July 2018. (28% acceptance rate)

Thomas Hastings and Kristen R. Walcott. "User Interaction Metrics for Hybrid Mobile Applications." In the Proceedings of the 16th Int'l Conference on Software Engineering & Research and Practice (SERP '18). July 2018. (19% acceptance rate)

Jonathan Sanders and Kristen R. Walcott. "TADS: Automating Device State to Android Test Suite Testing." In the Proceedings of the 17th International Conference on Wireless Networks (ICWN 2018). July 2018. (19% acceptance rate).

Evan Lojewski and Kristen R. Walcott. "LwProf: Lightweight Profiling and Coverage Tool for Embedded Software." In the Proceedings of the 16th International Conference on Embedded Systems, Cyber-physical Systems, and Applications (ESCS 2018). July 2018. (21% acceptance rate).

Dan Boxler and Kristen R. Walcott. "Static Taint Analysis Tools to Detect Information Flows." In the Proceedings of the 16th Int'l Conference on Software Engineering & Research and Practice (SERP '18). July 2018. (19% acceptance rate)

Gordon Brown and Kristen R. Walcott. "Using Deep Packet Inspection to Detect Mobile Application Privacy Threats." In the Proceedings of the 16th Int'l Conference on Software Engineering & Research and Practice (SERP'18). July 2018. (19% acceptance rate)

Hessah Alkaoud and Kristen R. Walcott. "Quality Metrics of Test Suites in Test-Driven Designed Applications." In the International Journal of Software Engineering & Applications (IJSEA), Volume 9, Number 3, May 2018. (16% acceptance rate) (Cited by 2)

Jeshua Kracht, Jacob Petrovic, Kristen R. Walcott-Justice. "Empirically Evaluating the Quality of Automatically Generated and Manually Written Test Suites." In the Proceedings of the 14th International Conference on Quality Software (QSIC 2014), Dallas, Texas, October 2014. (26% acceptance rate). (Cited by 9).

Kristen R. Walcott-Justice, Jason Mars, and Mary Lou Soffa. "THEME: A System for Testing by Hardware Monitoring Events." In the Proceedings of the International Conference on Software Testing and Analysis (ISSTA). Minneapolis, Minnesota, July 2012. (28% acceptance rate) (Cited by 10).

Mary Lou Soffa, Kristen R. Walcott, and Jason Mars. "Exploiting Hardware Advances for Software Testing and Debugging (NIER Track)." In the Proceedings of the International Conference on Software Engineering (ICSE). Waikiki, Honolulu, HI, May 2011. (23% acceptance rate) (Cited by 30).

Sara Alspaugh, Kristen R. Walcott, Michael Belanich, Gregory M. Kapfhammer, and Mary Lou Soffa. "Efficient Time-Aware Prioritization with Knapsack Solvers." In the Proceedings of the ASE 2007 Workshop on Empirical Assessment of Software Engineering Languages and Technologies. Atlanta, Georgia, November 2007. (Cited by 39).

R. Peter Weistroffer, Kristen R. Walcott, Jason Lawrence, and Greg Humphreys. "Efficient Basis Decomposition for Scattered Reflectance Data." In the Proceedings of the Eurographics Symposium on Rendering. Grenoble, France, June 2007. (35% acceptance rate) (Cited by 31.)

Kristen R. Walcott, Greg Humphreys, and Sudhanva Gurumurthi. "Dynamic Prediction of Architectural Vulnerability from Microarchitectural State." In the Proceedings of the International Symposium on Computer Architecture (ISCA), San Diego, California, June 2007. (22% acceptance rate) (Cited by 133.)

Kristen R. Walcott, Gregory M. Kapfhammer, Robert Roos, and Mary Lou Soffa. "Time-Aware Test Suite Prioritization." In the Proceedings of the ACM SIGSOFT/SIGPLAN International Symposium on Software Testing and Analysis (ISSTA), Portland, Maine, July 2006. (28% acceptance rate) (Cited by 340.)

Daniel Fiedler, Kristen R. Walcott, Thomas Richardson, Gregory M. Kapfhammer, Ahmed Amer, and Panos K. Chrysanthis. "Towards the Measurement of Tuple Space Performance." In ACM SIGMETRICS Performance Evaluation Review 33(3), December 2005. (Cited by 20.)

Non-Refereed Publications

Armando Fox, David A. Patterson, Richard Ilson, Samuel Joseph, Kristen Walcott-Justice, and Rose Williams. "Software Engineering Curriculum Technology Transfer: Lessons learned from MOOCs and SPOCs." *UC Berkeley EECS Technical Report*. 2014. (Cited by 47)

Kristen R. Walcott. "Exploiting Hardware Advances in Software Testing and Debugging." Poster. International Conference on Software Engineering. Waikiki, Honolulu, Hawaii, May 26, 2011.

Kristen R. Walcott. "Dynamic Prediction of Architectural Vulnerability." Poster. CRA-W Graduate Student Cohort, March 2007.

Kristen R. Walcott. "Time-Aware Test Suite Prioritization." Poster. University of Virginia Computer Science Day Celebration, February 2006.

Kristen R. Walcott, Greg Humphreys, and Sudhanva Gurumurthi. "Dynamic Prediction of Architectural Vulnerability from Microarchitectural State." CS-2007-05. Department of Computer Science, University of Virginia. November 2006.

Kristen R. Walcott. "Prioritizing Regression Test Suites for Time-Constrained Execution Using a Genetic Algorithm." CS05-11. Department of Computer Science, Allegheny College, May 2005.

Kristen R. Walcott. "Analysis and Applications of Burnside's Theorem." Department of Mathematics, Allegheny College, December 2004.

Publications Submitted/To be Submitted

Lamees Fakhurji and Kristen R. Walcott, "Predicting Success of Agile Self-Managed Teams In Computer Science Academic Environments."

Menwa Alshammeri and Kristen R. Walcott, "A Model to Incorporate Contribution Structures into PRO-ART to Enable Pre-requirements Specification Traceability."

Books and Book Chapters

Kristen R. Walcott-Justice (2014). "Exploiting Hardware Monitoring in Software Engineering." In *Advances in Computers* (Vol 93), Ali R. Hurson and Atif M. Memon, Ed. Academic Press. March 2014.

Invited Presentations/Activities

Kristen R. Walcott-Justice. "Machine Learning in Software Test Prioritization Techniques." Fearless Friday talk, Colorado College, Colorado Springs, CO, February 6, 2015.

Kristen R. Walcott-Justice. "Arduino: Unleash Your Inner Inventor." Workshop at the UCCS Girls STEM day, Colorado Springs, CO, November 2013.

Kristen R. Walcott-Justice. "Arduino: Unleash Your Inner Inventor." Workshop at the UCCS Girls STEM day, Colorado Springs, CO, October 2012.

Kristen R. Walcott, Kristin Rozier, and Katie Panciera. "Choosing Your Building Blocks." Presented at the Grace Hopper Conference for Women in Computing, Keystone, CO, October 2008.

Barbara Ryder and Kristen R. Walcott. "Finding a Research Topic." Presented at the CRA-W Graduate Student Cohort, Seattle, WA, March 2008.

Diane Litman and Kristen R. Walcott. "Finding Academic Year Funding." Presented at the CRA-W Graduate Student Cohort, San Francisco, CA, March 2007.

Kristen R. Walcott. "Research Opportunities in Computer Science." Presented at Allegheny College, Meadville, PA, February 2007.

Grants and Scholarship

NSF 17-585: IGE: Incorporating Research and Practicality into Cybersecurity and Software Engineering Education at the University and Internationally. 347,425 (PI) July 1, 2018-June 30 2021. Declined.

NSA AR Cyber P3i: Cyber Solider Development Grant Program. \$797,166 (Co-PI) September 2016-August 2017. **Accepted.**

NSF 14-598: SHF: Small: Software Testing, Debugging, and Use Characterization for Mobile Applications. \$254,650 (PI). 8/1/2015-7/31/2018. Declined.

NSF 14-526: IIS - Cyberlearn & Future Learn Tech. EXP: EdGE: Education Gamification Engine - Enhancing Learning through Games. \$485,649 (Co-PI). 6/01/2015-5/30/2017. Declined.

MDA13-T004: SBIR Phase II- SBIR: CHECKS- Collaborative Electronic CheckList System. \$124,900 (PI). 6/01/2015-5/30/2017. Declined.

NSF 14-562: CRII: SHF: Software Testing, Debugging, and Use Characterization for Mobile Applications \$142,765 (PI). 1/25/2015-1/24/2017. Declined.

NSF 13-579: SHF:Small: Exploiting Hardware Monitoring to Enable Software Testing and Use Characterization on Mobile Devices \$241,923 (PI). 8/1/2014-7/31/2017. Declined.

NSF 13-585: CNS- COMPUTING RES INFRASTRUCTURE II-New: Research Infrastructure for Predictable and Sustainable Cloud Computing and Augmented Services \$229,067 (Co-PI). 6/1/2014-5/31/2017 Declined.

MDA13-T004: STTR – Event Integration & Execution Checklist Automation in Support of Improved Situational Awareness and Knowledge Dissemination (Autotest). 05/20/2014-10/20/2014
Common Situational Awareness Tool (CSAT). \$33,477 (UCCS PI). **Approved.**

NSF 13-542: CNS - CISE - Research Experiences for Undergraduates Sites (Computer Sci. & Eng) REU Site: Machine Learning, Theory and Applications \$375,905 (Co-PI). 6/1/2014-5/31/2017 **Approved.**

NSF 13-552: DUE - Community Implementation Grant (WIDER) 07/03/2013
Collaborative Research: MOOC Focused Reflective Instructor Communities Increasing Uptake of Evidence Based Teaching Practices in Computer Science \$120,144 (UCCS PI) Declined.

NSF 12-581: Computing and Communication Foundations (CCF): Core Programs 12/17/2012
SHF: Small: Exploiting Hardware Monitoring to Enable Software Testing and Debugging on Mobile Devices \$236,556 (PI) Declined.

NSF 11-536: CNS - COMPUTING RES INFRASTRUCTURE 10/23/2012
II-New: Research Infrastructure for Autonomic Sustainable Computing and Augmented Services in Cloud Environments \$219,769 (Co-PI) Declined.

NSF 12-569: CNS - CISE - Research Experiences for Undergraduates Sites (Computer Sci. & Eng) 09/12/2012 REU Site: Machine Learning and Emergent Applications \$491,411 (Senior Personnel) Declined.

Courses Taught

Computer Science 5340: Software Maintenance (Grad.)	Spring 2018
Textbooks: Kshirasager Naik and Priyadarshi Tripathy. <i>Software Testing and Quality Assurance: Theory and Practice</i> . Wiley. 2008.	
Computer Science 3300: Software Engineering (Undergraduate)	Spring 2018
Textbooks: Armando Fox and David Patterson. <i>Engineering Software as a Service: An Agile Approach Using Cloud Computing</i> , 1st Edition. Strawberry Canyon. 2014.	
Computer Science 5371: Software Testing for Mobile and Embedded Systems (Grad.)	Fall 2017
No textbook used. 20 publications from ACM and IEEE considered.	
Computer Science 3300: Software Engineering (Undergraduate)	Fall 2017
Textbooks: Armando Fox and David Patterson. <i>Engineering Software as a Service: An Agile Approach Using Cloud Computing</i> , 1st Edition. Strawberry Canyon. 2014.	
Computer Science 5310: Software Requirements Analysis and Specification (Grad.)	Spring 2017
Textbooks: Axel van Lamswerde. <i>Requirements Engineering: From System Goals to UML Models to Software Specifications</i> . Wiley Publishing. 2011. Karl E. Wiegers and Joy Beatty. <i>Software Requirements</i> , 3 rd Edition. Microsoft Press. 2013.	
Computer Science 3300: Software Engineering (Undergraduate)	Spring 2017
Textbooks: Armando Fox and David Patterson. <i>Engineering Software as a Service: An Agile Approach Using Cloud Computing</i> , 1st Edition. Strawberry Canyon. 2014.	
Computer Science 5340: Software Maintenance (Grad.)	Fall 2016

- Textbooks: Kshirasager Naik and Priyadarshi Tripathy. *Software Testing and Quality Assurance: Theory and Practice*. Wiley. 2008.
- Computer Science 3300: Software Engineering (Undergraduate)** **Fall 2016**
Textbooks: Armando Fox and David Patterson. *Engineering Software as a Service: An Agile Approach Using Cloud Computing*, 1st Edition. Strawberry Canyon. 2014.
- Computer Science 5371: Software Testing for Mobile and Embedded Systems (Grad.)** **Spring 2016**
No textbook used. 20 publications from ACM and IEEE considered.
- Computer Science 3300: Software Engineering (Undergraduate)** **Spring 2016**
Textbooks: Armando Fox and David Patterson. *Engineering Software as a Service: An Agile Approach Using Cloud Computing*, 1st Edition. Strawberry Canyon. 2014.
- Computer Science 5310: Software Requirements Analysis and Specification (Grad.)** **Fall 2015**
Textbooks: Axel van Lamsweerde. *Requirements Engineering: From System Goals to UML Models to Software Specifications*. Wiley Publishing. 2011.
Karl E. Wiegers and Joy Beatty. *Software Requirements*, 3rd Edition. Microsoft Press. 2013.
- Computer Science 3300: Software Engineering (Undergraduate)** **Fall 2015**
Textbooks: Armando Fox and David Patterson. *Engineering Software as a Service: An Agile Approach Using Cloud Computing*, 1st Edition. Strawberry Canyon. 2014.
- Computer Science 5340: Software Maintenance (Grad.)** **Spring 2015**
Textbooks: Kshirasager Naik and Priyadarshi Tripathy. *Software Testing and Quality Assurance: Theory and Practice*. Wiley. 2008.
- Computer Science 3300: Software Engineering (Undergraduate)** **Spring 2015**
Textbooks: Armando Fox and David Patterson. *Engineering Software as a Service: An Agile Approach Using Cloud Computing*, 1st Edition. Strawberry Canyon. 2014.
- Computer Science 3300: Software Engineering (Undergraduate)** **Fall 2014**
Textbooks: Armando Fox and David Patterson. *Engineering Software as a Service: An Agile Approach Using Cloud Computing*, 1st Edition. Strawberry Canyon. 2014.
- Computer Science 5371: Software Testing for Mobile and Embedded Systems (Grad.)** **Fall 2014**
No textbook used. 20 publications from ACM and IEEE considered.
- Computer Science 3300: Software Engineering (Undergraduate)** **Spring 2014**
Textbooks: Armando Fox and David Patterson. *Engineering Long-Lasting Software: An Agile Approach Using SaaS and Cloud Computing*, 2nd Beta Edition. Strawberry Canyon. 2013.
- Computer Science 5310: Software Requirements Analysis and Specification (Grad.)** **Spring 2014**
Textbooks: Axel van Lamsweerde. *Requirements Engineering: From System Goals to UML Models to Software Specifications*. Wiley Publishing. 2011.
Karl E. Wiegers and Joy Beatty. *Software Requirements*, 3rd Edition. Microsoft Press. 2013.
- Computer Science 5340: Software Maintenance (Grad.)** **Fall 2013**
Textbooks: Kshirasager Naik and Priyadarshi Tripathy. *Software Testing and Quality Assurance: Theory and Practice*. Wiley. 2008.
Michael C. Feathers. *Working Effectively with Legacy Code*. Prentice Hall. 2005.
- Computer Science 5060: Software Testing for Mobile and Embedded Systems (Grad.)** **Summer 2013**
No textbook used. 30 publications from ACM and IEEE considered.
- Computer Science 5320: Software Design (Grad.)** **Spring 2013**
Textbooks: Carlos E. Otero. *Software Engineering Design: Theory and Practice*. CRC Press. 2012.
David S. Platt. *Why Software Sucks... and What You Can Do About It*. Addison-Wesley. 2006.
- Computer Science 3300: Software Engineering (Undergraduate)** **Spring 2013**
Textbooks: Armando Fox and David Patterson. *Engineering Long-Lasting Software: An Agile Approach Using SaaS and Cloud Computing*, Beta Edition. Strawberry Canyon. 2012.
- Computer Science 5310: Software Requirements Analysis and Specification (Grad.)** **Fall 2012**
Textbooks: Karl E. Wiegers. *Software Requirements*, 2nd Edition. Microsoft Press. 2003.
Axel van Lamsweerde. *Requirements Engineering: From System Goals to UML Models to Software Specifications*. Wiley Publishing. 2011.
Ben Rinzler. *Telling Stories: A Short Path to Writing Better Software Requirements*. Wiley Publishing. 2009.
- Website: http://cs.uccs.edu/~kjustice/CS5310_Fall12012

Computer Science 1010: Introduction to Information Technology (UGrad at UVA) **Fall 2011**
Textbook: Lawrence Snyder. *Fluency with Information Technology: Skills, Concepts, and Capabilities*, 5th Edition.

Recognitions

SWE Region I Collegiate Membership Increase award, May 2014.
NSF Graduate Research Fellowship, April 2006 – 2009.
Google-Anita Borg Memorial Scholarship for Women in Computing Winner, April 2006.
Ford Foundation Predoctoral Fellowship Honorable Mention, April 2006 and May 2007.
Dean's Fellowship, University of Virginia, 2005 - 2008.
Allegheny College Department of Computer Science Faculty Prize for the Best Senior Thesis, May 2005.
Allegheny College Department of Computer Science and ACM Student Chapter Prize, May 2005.
Allegheny College Department of Mathematics James C. Doyle Prize for Excellence in Mathematics, May 2005.
Google-Anita Borg Memorial Scholarship for Women in Computing Finalist, May 2004.
Doane Scholar (2002, 2003, 2004) – Award for being one of the top ten in the class.

Professional Organizations

Association for Computing Machinery (ACM). **Member.**
Special Interest Group on Software Engineering (SIGSOFT). **Member.**
Society of Women Engineers (SWE). **Member.**
IEEE. **Member.**

Service

College: **Program Director** of the Masters of Engineering in Software Engineering Aug 2012-present
Professional: IEEE Transactions on Reliability, **Reviewer.** Sept 2017-present
Professional: Workshop on Testing Embedded and Cyber-Physical Systems. **Session Chair** July 2017
College: BS Computer Engineering Committee, **Member.** 2017-present
College: Computer Science Curriculum Committee, **Member.** 2016-present
College: Computer Science ABET Committee, **Member.** 2016-present
Professional: The Software Engineering Education Track at the International Conference on Software Engineering (ICSE 2016). **Program Committee.** 2016
College: Faculty Assembly Women's (FAWC) Committee 2015-2018
College: Graduate Research Fellowship review committee Feb 2016-present
Professional: ICSE2016 SEET **Program Committee** May 2016
College: Graduation Spring 2015- Attended. May 2015
College: UCCS Women's Committee (UWAC). **Member.** April 2015-present
Professional: The Software Engineering Education Track at the International Conference on Software Engineering (ICSE 2015). **Program Committee.** 2015
Professional: Grace Hopper Conference for Women in Computing: Productization Track. October 2015.
Program Committee.
College: Graduation Fall 2014- Attended. Dec 2014
Professional: International Conference on Quality Software (QSIC) **Session Chair** – October 3, 2014.
College: Mountain Lion Experience Day – Presented an overview of the CS department and answered many questions from about 20 prospective CS students and parents. September 26, 2014.
College: Graduation Spring 2014- Attended.
Professional: 9th International Testing: Academic and Industrial Conference - Practice and Research Techniques (TAIC PART) 2014. **Program Committee.**

Professional: International Symposium on Software Reliability Engineering (ISSRE) 2013. **Program Committee.**

Professional: Symposium on Search-Based Software Engineering (SSBSE) 2013. **Publicity Committee.**

Professional: Conference/Journal Peer Reviewer

- Software Testing, Verification and Reliability Journal (STVR) 2015.
- Transactions on Software Engineering (TSE) 2014.
- Software Testing, Verification and Reliability Journal (STVR) 2013.
- International Symposium on Software Reliability Engineering (ISSRE) 2013.
- Programming Language Design and Implementation (PLDI) 2010.
- International Conference on Software Testing (ICST) 2010.
- IEEE Transactions on Software Engineering 2008.

College: Engineering School Personnel Review Committee

Spring 2014

College: Program Director of the Masters of Engineering in Software Engineering

Aug 12 – present

College: UCCS Graduate Executive Committee

Aug 12 – present

College: BerkeleyX Engineering Software as a Service (SaaS) Beta program

Dec 12 – present

- Implemented the Berkeley MOOC SaaS system in a traditional classroom

College: UCCS Society of Women Engineers (SWE) Faculty Advisor

Aug 12 – present

- Won the SWE Region I Collegiate Membership Increase award

May 2014

University of Colorado at Colorado Springs Advising _____

Masters

Mark Vieira (MESE Portfolio), Graduated: December 2013.

Omar Alzahrani (MSCS Project). “Improving the Effectiveness of Test Coverage by Selective Sampling in Hardware Monitoring.” Expected Graduation: August 2013.

Hessah Alkaoud (MESE Project). “Quality Metrics of Test Suites in Test-Driven Designed Applications.” Graduated: May 2014.

Adam Best (MESE Project). “Postage and Handling Accelerator.” Graduated: May 2014.

Lan Le Nguyen (MESE Portfolio), Graduated: May 2014.

Francisco Ramos Rivera (MESE Portfolio), Graduated: May 2014.

Lamees Fakhurji (MESE Thesis), “Predicting The Success Of Agile Self-managed Teams In Computer Science Academic Environments.” Graduated: December 2014.

Sarojini Balasubramanian (MESE Thesis), “Characterization of Open Source Applications and Test Suites”, Graduated: May 2015.

Poorani Dharmasivam (MESE Project), “LDTT: A Low-Level Testing Tool.” Graduated: May 2015.

Scott Melton (MESE Thesis), Graduation: May 2015.

Menwa Alshammeri (MESE Thesis), Graduated: May 2015.

Troy Hutchinson (MESE Portfolio), Graduated: May 2015.

Matthew Deichsel (MESE Portfolio), Graduated: May 2015.

Stephen Ashworth (MESE Project), Expected Graduation: May 2016.

Mubaraka Parekh (MESE Project), Graduated Dec 2016.

Eman Alharbi (MSCS Thesis), Graduated: May 2016.

Jeshua Kracht (MESE Portfolio), Graduated December 2016.

Jacob Petrovic (MESE Portfolio), Graduated: December 2016.

Cody Hanson (MSCS Thesis), Graduated: May 2017.

George Turner (MESE Portfolio), Graduated: Dec 2016.

James Klein (MSCS Project), Graduated: May 2017.

Colton Shibe (MESE Portfolio), Expected Graduation: Dec 2018.

Daniel Register (MESE Portfolio), Graduate: May 2018.

Jonathan Sanders (MESE Portfolio), Graduated: May 2018.

Thomas Hastings (MESE Project), Graduated: May 2018.

Lida Fallahian (MESE Thesis), Expected Graduation: May 2019.

PhD Advisor

Hessah Alkaoud- Expected Graduation: TBD
Walter Hayden- Expected Graduation: TBD
Ammar Almutawa- Expected Graduation: TBD
Bill Emmel- Expected Graduation: 2020
Thomas Hastings- Expected Graduation: 2021

PhD Committees

Jichi Guo. “Optimizing Large Scale Scientific Computing Applications.” Advisor: Qing Yi.
Graduated December 2014.
Faizur Rahman. “Collectively Optimizing Scientific Applications for both Performance and Power.”
Advisor: Qing Yi. Graduated December 2014.
Fahad Alsolami. “Toward Secure Cloud Storage for Sensitive Data.” Advisor: Terry Boulton.
Dazhao Cheng. “Elastic Provisioning and Scheduling for Sustainable Computing in Clouds.”
Advisor: Xiaobo Zhou.
Pam Wood. “Connecting an Individual’s Perception of Emotion to Music Signals.” Advisor:
Sudhanshu Semwal.
Scott Denning. Advisor: Jugal Kalita.

PhD Oral Exam Committees

Beulah Navamani. Advisor: Chuan Yue.

Masters Committees

Alex Renger. “Safer Surfing through Cleaner Code.” (MSCS Thesis). Advisor: Chuan Yue.
Tim Flink. “Estimating Similarity Between Issues in the Fedora Project.” (MSCS Project) Advisor:
Jugal Kalita.
Ismail Bahkali. “Baloot Game.” (MSCS Project) Advisor: Sudhanshu Semwal.
Abdullah Al-Juhni. (MSCS Project) Advisor: Jia Rao.
Jahnvi Yeddanapudy (MSCS Project) Advisor: Edward Chow.
Matt Shutter (MSCS Project) Advisor: Edward Chow.
Hans Cox (MSCS Project) Advisor: Sudhanshu Semwal.

Undergraduate

15 undergraduate advisees each semester

Independent Research Studies

Jeshua Kracht – Spring 2014. Undergraduate research study in Automated Testing.
Jacob Petrovic – Spring 2014. Undergraduate research study in Automated Testing.
Lamees Fakhurji – Spring 2014. Graduate research study in “The Effects of Personality in Agile Self-Organizing Teams.”
Sarojini Balasubramanian – Spring 2014. CS 5340: Software Maintenance substitution.
Hessah Alkaoud- Fall 2014. Continuing graduate research in “Quality metrics for TDD applications.”
Dustin Bingham- Spring 2015. Undergraduate research in Search-Based Software Testing and Analysis.

Jacob Petrovic- Summer 2015. Graduate research in Automated versus manual testing- Journal paper.

Jeshua Kracht- Summer 2015. Graduate research and support.

Tim Karmondy- Spring 2016.

Nathan Norby- Spring 2017.