

Curriculum Vita

Dr. Michael P. Rogers

Cell: 309-825-6454

E-mail: mprogers@mac.com

FaceTime: [mprogers@mac.com](tel:mprogers@mac.com)

Facebook: mprogers

Twitter: @mprogers

Skype: mprogersatmac.com

Web: <http://mprogers.org>

References

Dr. Carol Spradling	Dr. William Siever	Dr. Christine Benson
Director Emeritus, School of Computer Science and Information Systems Northwest Missouri State Univ Maryville, MO c_sprad@nwmissouri.edu	Assistant Professor Computer Science & Engineering Washington University in St. Louis St. Louis, MO bsiever@wustl.edu	Chair, Department of Mathematics and Statistics Northwest Missouri State Univ Maryville, MO cbenson@nwmissouri.edu
(660) 853-9481	(573) 364-8890	660-562-1807

Teaching Experience

University of Wisconsin Oshkosh - Department of Computer Science (2020-Present)

- CS 221: Object-Oriented Design and Programming I
- CS 251: Computer Architecture & Assembly Language
- CS 341: Software Engineering I
- CS 344: Mobile Application Development

Northwest Missouri State University - School of Computer Science & Information Systems (2009-2020)

- 44-101: Foundations of Computing
- 44-130: Computers and Info Tech (an introductory survey course for CS majors)
- 44-141: Introduction to Computer Programming I
- 44-149: Scientific Computing
- 44-241: Introduction to Computer Programming II
- 44-242: Data Structures
- 44-345: Computer Organization
- 44-351: Foundations of Game Development
- 44-440: Internet of Things
- 44-443: Mobile Computing - iOS
- 44-444: Mobile Computing - Android
- 44-449: Independent Study (diverse topics)
- 44-563: Developing Web Apps and Services
- 44-599: Special Projects: Virtual Reality

- 44-663: App Development in C# .NET
- 44-696: Graduate Directed Projects (16 and counting)

Millikin University Mathematics & Computer Science Department (1998-2009)

- Introduction to Programming (using Java and C++)
- Data Structures and Algorithms
- Web Programming (using J2EE and Ruby On Rails)
- System Administration with Linux
- Computer Graphics (using OpenGL)
- Discrete Mathematics
- Network Programming (using TCP/IP)
- Computer Organization
- Embedded Systems Programming (using PIC Microcontrollers)
- Game Design (using Torque)
- Cocoa Programming (using Objective-C)
- Operating Systems
- Probability and Statistics
- Intermediate Algebra
- Astronomy (Stars & Galaxies; the Planets)
- iPhone Application Development
- Zzuleps (Freshmen orientation course to develop critical thinking skills through puzzle solving)
- Beyond the Silicon Curtain (Freshmen orientation course to introduce CS topics to non-majors)

Illinois State University Mathematics Department (1994-1998)

- Java Programming Seminars
- Web Authoring Workshops (PageMill, JavaScript)
- C++ Programming Seminars
- Miscellaneous Workshops (Internet, Microsoft Office, OS Basics)

Illinois State University ACS Department (1990-94)

- C as a Second Language
- Data Structures (using Pascal)
- Information Processing Using PL/I
- Introduction to Computer Science
- Macintosh Application Development (using C)
- Structured Problem Solving
- OOP on the Mac (using C++)

Illinois Wesleyan University (1990-93)

- Computer Architecture
- Introduction to Programming

Illinois State University Mathematics Department (1987-90)

- Introduction to Statistics
- Calculus Sequence Classes

University of Nebraska (1986-87)

- Introduction to Statistics

Service

Department

University of Wisconsin Oshkosh

- Curriculum Committee (2020-present)
- Cybersecurity Subcommittee (2020-present)

Northwest Missouri State University

- Chair, CS Curriculum Committee (2014-2018)
- Makerspace Supervisor (2017-Present)
- Member, CSIS 141/241 Curricular Subcommittee(2011-2013)
- Chair, CSIS 140/141/149/241/242 Curricular Subcommittee (2010-2013)
- Advisor, Association of Computing Machinery Student Chapter (2014-2019)
- Co-Advisor, Association of Computing Machinery Student Chapter (2009-2014)
- Member, Hiring Committee (various dates, as needed)
- Co-Coach, CSIS Programming Team (2010-Present)
- Social Media Supervisor (2015-Present)
- 3D Printer Manager (2013-Present)
- Member, Instructional Technology Committee (2010-Present)

Millikin University

- Site chair, Attracting Students to IT Conference (October, 2007 & 2008, Millikin University)
- Coach, Millikin University Programming Team
- Primary architect of two major revisions to the CS curriculum at Millikin University to bring it in line with ACM recommendations and industry expectations
- Student advisor for *numerous* CS majors
- Webmaster, Department of Mathematics and Computer Science, 2001-2009
- Advisor to Millikin University ACM Chapter

University (Committees and Outreach)

Northwest Missouri State University

Committees

- Academic Petitions (2019-Present)
- Faculty Senator (2018-Present)
- Member, Designated Curricular Matters (DCM) (2015-Present)
- Member, Educational Technology Committee (ETC) (2013-2014)
- Faculty Senator (2011-2014)
- Member, Distinguished Lecture Series (2012-2013)
- Member, Educational Technology Committee (ETC) (2010-2011)

Departmental Outreach

- The Most Awesome Northwest KC Programming Contest (2018-Present)
- PREP KC JC Harmon Business and Technology Career Jumping (14 October 2015)
- Co-organizer K-12 Teacher Scratch Workshops (2010-2014)
- Member, Roadshow Recruiting Project (2011-Present)
- Computing Visit Day presentations (2010-present)

Millikin University

- Member, Council on Academic Standards
- Advisor to Millikin University Macintosh Users Group
- Member, Council on Faculty, 2003-2006
- Co-founder, “Journeys in Arts and Sciences “ — a forum for faculty in Arts & Sciences to present their research to colleagues in a collegial atmosphere
- Honors-Day Interviewee, 2001, 2003, 2004

Profession

- SIGCSE Panel Reviewer (2018-Present)
- Poster Contest Judge, MINK-WIC 2015 Conference (October 2015)
- Webmaster, Consortium for Computing Sciences in Colleges:Central Plains (2010-Present)
- Consortium for Computing Sciences in Colleges:Central Plains Session Chair (2011)
- Regional Vendors Chair, Consortium for Computing Sciences in Colleges:Central Plains (2010-2014)
- Site chair, Consortium for Computing Sciences in Colleges Midwest 2005 Conference
- Webmaster and co-publicity chair, Consortium for Computing Sciences in Colleges, Midwest Chapter (2001-2008)

Community

- Angel Flight Central Pilot of the Year (2017)
- Founder and President, Hawk Road Flyers EAA Chapter 1540 (2012-2015)
- Young Eagles Participant (2013-Present)
- Angel Flight Central Member (2005-Present)

Scholarly Productivity

Peer-Reviewed Book Chapter

Wall, Jennifer., and Rogers, Michael P. (2014). Teaching Fundamental Math Concepts: There's an App for That... Or is There?. In Drew Polly (Eds.), Cases on Technology Integration in Mathematics Education (pp. 268-287). Hershey, PA: IGI Global. **(Rogers contribution: 50%)**

Peer-Reviewed Publications

Rogers, Michael P., Siever, Bill. Teaching Cross-Platform Technology and Democracy. Journal of Computing Sciences in Colleges (accepted for publication). **(Rogers contribution: 50%; Acceptance Rate: N/A%)**

Case, Denise, Rogers, Michael P. Is it Getting Foggy in Here? Cloud Computing in The Classroom. Journal of Computing Sciences in Colleges, Volume 35, No. 5, May 2020 **(Rogers contribution: 50%; Acceptance Rate: N/A%)**

Rogers, Michael, Hoot, Charles. Getting Ahead with a Hat: Reengineering a Computer Organization Course. Journal of Computing Sciences in Colleges, Volume 34, No. 5, May 2019. **(Rogers contribution: 50%; Acceptance Rate: N/A%)**

Rogers, Michael, Siever, Bill. A Macro View of the Micro:Bit in Higher Education. Journal of Computing Sciences in Colleges, Volume 33, No. 5, May 2018. **(Rogers contribution: 50%; Acceptance Rate: 54%)**

Rogers, Michael, Fellah, Aziz, Wong, Dennis. Flash, buzz, zap and ouch!: the sounds and sights of the internet of things in the classroom. Journal of Computing Sciences in Colleges, Volume 32, No. 5, May 2017. **(Rogers contribution: 50% Acceptance Rate: 67%)**

Rogers, Michael, Siever, Bill. Achieving the EMBaaSABLE: easy cloud storage, push notifications and social media integration in an introductory mobile computing class. Journal of Computing Sciences in Colleges, Volume 31, No. 5, May 2016. **(Rogers contribution: 50%; Acceptance Rate: 54.5%)**

Spradling, Carol, Linville, Diana, Clark, Judy, Rogers, Michael P. Are MOOCs an appropriate pedagogy for training K-12 teachers computer science concepts. Journal of Computing Sciences in Colleges, Volume 30, No. 5, May 2015. **(Rogers contribution: 25%; Acceptance Rate: 61.5%)**

Rogers, Michael P., Siever, Bill. Switching to Swift: Instructional Issues and Student Sentiment. Journal of Computing Sciences in Colleges, Volume 30, No. 5, May 2015. **(Rogers contribution: 80%; Acceptance Rate: 61.5%)**

Wall, Jennifer, Beatty, Heidi, Rogers, Michael P. Apps for teaching, not just reviewing. Teaching Children Mathematics 21, 7, 438-441, 2015. **(Rogers contribution: 30%; Acceptance Rate: 25%)**

Rogers, Michael P. , Shoemake, Andrew O. Storyboards: A Graphical Development Tool for the Rest of Us. Journal of Computing Sciences in Colleges, Vol 29, No. 5, May 2014. **(Rogers contribution: 90%; Acceptance Rate: 60%)**

Clark, Judy, Spradling, Carol, Rogers, Michael P. What, No Canoes? Lessons Learned While Hosting a Scratch Summer Camp (with Judy Clark and Carol Spradling). Journal of Computing Sciences in Colleges, Volume 28, No. 5, May 2013. **(Rogers contribution: 33.3%; Acceptance Rate: 65%)**

Rogers, Michael P. , Wessell, Ryan. The Joy of Text: Word Games in CS I. Journal of Computing Sciences in Colleges, Volume 28, No. 5, May 2013. **(Rogers contribution: 70%; Acceptance Rate: 65%)**

Rogers, Michael P. Bringing Unity to the Classroom. Journal of Computing Sciences in Colleges, Volume 27, No. 5, May 2012. **(Acceptance Rate: 67%)**

Clark, Judy, Spradling, Carol, Rogers, Michael P. Scratch the Workshop and its Implications on our World of Computing. Journal of Computing Sciences in Colleges, Volume 26, No. 5, May 2011. **(Rogers contribution: 33.3% Acceptance Rate: 64%)**

Rogers, Michael P. There and Back Again. Leveraging iOS Development on Mac OS X. Journal of Computing Sciences in Colleges, Volume 26, No. 5, May 2011. **(Acceptance Rate: 64%)**

Rogers, Michael P. Goadrich, Mark. Smart Smartphone Development. Special Interest Group in Computer Science Education, 2011. Proceedings of the 42nd ACM technical symposium on Computer Science Education. **(Rogers contribution: 70%; Acceptance Rate: 34%)**

Rogers, Michael P. Honey, I Shrunk the Cluster! Parallel Computing and Monte Carlo Simulations on iOS Devices. Journal of Computing Sciences in Colleges, Volume 26, No. 1, September 2010. **(Acceptance Rate: 70%)**

Rogers, Michael P. Wrong Number: Avoiding the Hidden Perils in iPhone Development. Journal of Computing Sciences in Colleges, Volume 25, No. 5, May 2010. **(Acceptance Rate: 65%)**

Python: the Tutorial. Journal of Computing Sciences in Colleges, Volume 25, No. 1, October 2009. **(Acceptance Rate: 50%)**

Rogers, Michael P. It's For You! An iPhone Development Primer for the Busy College Professor. Journal of Computing Sciences in Colleges, Volume 25, No. 1, October 2009. **(Acceptance Rate: 50%)**

Making Music in CS I: An Exploration of Java and Midi. Journal of Computing Sciences in Colleges, Volume 20, No. 1, October, 2004.

How Sweet it Is! A Course in Cocoa. Journal of Computing Sciences in Colleges, Volume 19, No. 2, May, 2003

To Boldly Go: A Student Project to Place a Telescope on the Internet. Journal of Computing in Small Colleges, Volume 17, No. 1, November 2001.

Three Java-Based Textbooks for an Introductory Programming Course. Mathematics and Computer Education, Volume 35, No. 3, Fall 2001.

Working Linux into the CS Curriculum. Journal of Computing in Small Colleges, Volume 16, No. 1, November 2000.

OpenGL Programming Tutorial. Journal of Computing in Small Colleges, Volume 15, No. 1, November 1999.

Peer-Reviewed Presentations / Workshops / Tutorials

Rogers, Michael P. A Tutorial On Flutter. Consortium for Computing Sciences in Colleges: Midwest, Fort Wayne, IN, October 2021.

Garcia, Daniel D., Rogers, Michael P., Stefik, Andreas. Engaging Pre-CS1 Programming Languages. Special Interest Group in Computer Science Education 2021, March 2021.

Siever, Bill, Michael P. Rogers. Game On! Inspired CS Education with MakeCode Arcade. Special Interest Group in Computer Science Education 2021, March 2021.

Rogers, Michael P., Siever, Bill. Birds of a Feather Session: Canvas Considered Helpful (?). Special Interest Group in Computer Science Education 2021, March 2021

Rogers, Michael P., Siever, Bill. What To Make of Makerspaces. Special Interest Group in Computer Science Education 2019, Minneapolis, MN, February 2019. **(Acceptance rate, 51.7%)**

Rogers, Michael P., Siever, Bill. Micro:bit Magic: Engaging K-12, CS1/2, and non-majors with IoT & Embedded. Special Interest Group in Computer Science Education (Special Interest Group in Computer Science Education) 2018, Baltimore, MD, February 2019. **(Acceptance rate, 56.7%)**

Rogers, Michael P. Teaching Code is a Snap, with Snap! and Hello, Python. Missouri Business Educators Association Conference, December 2018.

Case, Denise, Toomey, Deborah, Rogers, Michael, Kelley, Curt, Smith, Harold, Spradling, Carol, Simmons, Juanita. Improving the CS Pipeline for Underrepresented Groups. Consortium for Computing Sciences in Colleges:Central Plains, Maryville, MO, April 2018.

Rogers, Michael P., Siever, Bill. What to do about Comp Org? Special Interest Group in Computer Science Education (Special Interest Group in Computer Science Education) 2018, Baltimore, MD, February 2018. **(Acceptance rate, 45.3%)**

Rogers, Michael P., Siever, Bill. Micro:bit Magic: Engaging K-12, CS1/2, and non-majors with IoT & Embedded. Special Interest Group in Computer Science Education (Special Interest Group in Computer Science Education) 2018, Baltimore, MD, February 2018. **(Acceptance rate, 56.7%)**

Rogers, Michael P., Siever, Bill. An IoT BOF. Special Interest Group in Computer Science Education (Special Interest Group in Computer Science Education) 2017, Seattle, WA, March 2017. **(Acceptance Rate: 45.9%)**

Siever, Bill, Rogers, Michael P. An Iota of IoT. Special Interest Group in Computer Science Education (Special Interest Group in Computer Science Education) 2017, Seattle, WA, March 2017. **(Acceptance Rate: 80.0%)**

Rogers, Michael P., Siever, Bill. A Hands On Introduction to the Internet Of Things. Special Interest Group in Computer Science Education (Special Interest Group in Computer Science Education) 2016, Memphis, TN, March 2016. **(Acceptance Rate: 48.6%)**

Rogers, Michael P. , Siever, Bill. Solving the Cloud Computing Impasse with MBaaS. Special Interest Group in Computer Science Education 2016, Memphis, TN, March 2016. **(Acceptance Rate: 48.6%)**

Rogers, Michael P., Siever, Bill. A Swift Introduction to Swift App Development. Special Interest Group in Computer Science Education 2015, Kansas City, MO, March 2015. **(Acceptance Rate: 42%)**

Rogers, Michael P. A Swift Introduction to Swift. Missouri, Iowa, Nebraska, Kansas Women-in-Computing (MINK-WIC), Kansas City, MO, October 2015. **(Invited Presentation)**

Rogers, Michael P., Siever, Bill. Birds-of-a-Feather Session: The Great Objective-C Swift Migration of 2015. Special Interest Group in Computer Science Education 2015, Kansas City, MO, March 2015. **(Acceptance Rate: 69.1%)**

Rogers, Michael P. , Shoemake, Andrew O. A Tutorial on Storyboards. Consortium for Computing Sciences in Colleges:Central Plains, Fulton, MO, April 2014. **(Acceptance Rate: 100%)**

Rogers, Michael P, Wessell, Ryan. Word Games and Python in CS I and II. Consortium for Computing Sciences in Colleges:Central Plains, Kansas City, MO, April 2013. **(Acceptance Rate: 80%)**

Rogers, Michael P. Birds-of-a-Feather Session: The Joy Of Word Games. Special Interest Group in Computer Science Education 2013, Denver, CO March 2013. **(Acceptance Rate: 72%)**

Rogers, Michael P. Unity 3 Tutorial. Consortium for Computing Sciences in Colleges:Central Plains, Springfield, MO, March 2012. **(Acceptance Rate: ?%)**

Rogers, Michael P., Goadrich, Mark. A Hands-On Comparison of iOS vs. Android. Special Interest Group in Computer Science Education 2012, Raleigh, NC, March 2012. **(Acceptance Rate: 46%)**

Rogers, Michael P. Three Hours, Three Apps, No Problem: a Quick Introduction to iPhone/iPad Development. Consortium for Computing Sciences in Colleges:Central Plains Workshop, April 2011. **(Acceptance Rate: ?%)**

Rogers, Michael P. Birds-of-a-Feather Session: An iOS BOF. Special Interest Group in Computer Science Education 2011, Dallas, TX, March 2011. **(Acceptance Rate: 45%)**

Rogers, Michael P. An Audacious iPhone Workshop, Special Interest Group in Computer Science Education 2010, Milwaukee, WI, March 2010. **(Acceptance Rate: 45%)**

Rogers, Michael P. Python: the Tutorial. Journal of Computing Sciences in Colleges, Volume 25, No. 1, October 2009. **(Acceptance Rate: 50%)**

Rogers, Michael P. From Inspiration to App Store in 90 Minutes: a Tutorial on iPhone Development. CCSC:MW, October 2009. **(Acceptance Rate: ?%)**

Rogers, Michael P. Birds-of-a-Feather Session: iPhone Application Development. Special Interest Group in Computer Science Education 2009, Chattanooga TN, March 2009. **(Acceptance Rate: 64%)**

GPS in CS I and II. OOPSLA 2008 Educator's Symposium. Nashville, TN, October 2008.

Linux Administration for K-12 Teachers. Consortium for Computing Sciences in Colleges: Midwest Conference, September 2008.

Computer Games in the Classroom: A Practical Guide. Consortium for Computing Sciences in Colleges: Midwest Conference, September 2007.

Computer Games in the Classroom, or, How to Get Perfect Attendance, Even at 8 AM. Special Interest Group in Computer Science Education 2007, Cincinnati, March 2007.

Birds-of-a-Feather Session: Torque and Other Game Engines. Special Interest Group in Computer Science Education 2006, Houston, March 2006.

Game Development. Consortium for Computing Sciences in Colleges: Midwest Conference, September 2005.

How To Build a Music Synthesizer in 30 Minutes (or Less): Or, a Tutorial on Java and Midi. Consortium for Computing Sciences in Colleges: Midwest Conference, October 2004.

Embedded Systems Programming Tutorial. Consortium for Computing Sciences in Colleges, Central Plains Conference, April, 2003.

Embedded Systems Programming. Consortium for Computing Sciences in Colleges: Midwest Conference, September 2003.

Birds-of-a-Feather Session: Mac OS X. Special Interest Group in Computer Science Education 2003, Reno, February 2003.

A Tutorial on Mac OS X Development. Consortium for Computing Sciences in Colleges: Midwest Conference, September 2002.

Tutorial on Java Web Start. Midwest Computer Conference 2002, Roosevelt University, April 2002.

Variable Stars. Keynote presentation for the Society of Physics Students, Millikin University, November 2001.

Oh, The Places You'll Go! A Tour of the Night Sky with Starry Night. Macon-Piatt Educational Conference 2001-2002, Stephen Decatur Middle School.

Thinking about Education and Technology. National Symposium on Undergraduate Education, Millikin University, 1999.

Java Servlets. Midwest Computer Conference, Benedictine University, 1999.

Peer-Reviewed Apps

Rogers, M.P. (2020) Crossword Replay [Mobile Application software] <https://itunes.apple.com>

Rogers, M.P. (2020) Inflation Sensation [Mobile Application software] <https://itunes.apple.com>

Rogers, M.P. (2017) KXCV/KRNW [Mobile application software] <http://itunes.apple.com>

Rogers, M.P. (2016) Wakey, Wakey [Mobile application software] <http://itunes.apple.com>

Rogers, M.P., and Shepherd, Mary. (Submitted, November 2015) Mathaquilta. [Mobile application software]

Rogers, M. P., and Wall, J. J. (2013) Space Blocks! [Mobile application software]. <http://itunes.apple.com>

Rogers, M. P., and Wall, J. J. (2013) Fruit Plate Math 2.0.1 [Mobile application software]. <http://itunes.apple.com>

Rogers, M. P., and Wall, J. J. (2012) Fruit Plate Math 1.0 [Mobile application software]. <http://itunes.apple.com>

Peer-Reviewed Grants

Google Grant (April 2017: \$28,260)

Google Grant (April 2014; \$16,200)

Google Grant,(April 2013; \$13,500)

Google Grant (April 2012; \$13,500)

Google Grant (April 2011; \$11,650)

Co-PI, C-STEM Grant (August, 2011; \$517,075)

Invited Talks

Missouri Iowa Nebraska Kansas - Women in Computing Conference, November 2019
Missouri Business Educators Association, December 2018
Missouri Iowa Nebraska Kansas - Women in Computing Conference, November 2017
Missouri Iowa Nebraska Kansas - Women in Computing Conference, October 2015

Awards

Northwest Alumni Association Distinguished Faculty Award (Awarded 2019)
Governor's Award for Excellence in Education (Awarded 2018)
Faculty Excellence Award for Teaching (Awarded 2018)
Dean's Faculty Award for Exemplary Service (Awarded 2012)
Dean's Faculty Award for Exemplary Research (Awarded 2011)

Employment History

- Associate Professor, Computer Science / Information Systems
Northwest Missouri State University (2016-Present)
- Assistant Professor, Computer Science / Information Systems
Northwest Missouri State University (2009-2016)
- Associate Professor, Computer Science
Millikin University (2004-2009)
- Assistant Professor, Computer Science
Millikin University (1998-2004)
- Network Administrator, Mathematics
Illinois State University (1993-1998)
- Network Administrator, Economics
Illinois State University (1994-present)
- Instructor, Applied Computer Science
Illinois State University (1990-1994)
- Adjunct Professor, Computer Science
Illinois Wesleyan University (1990-1993)
- Lecturer, CMS (1992-1994)
- Instructor, Mathematics
Illinois State University (1987-1990)
- Assistant Professor, Mathematics

University of Nebraska (1986-1987)

Education

Illinois State University, Normal, Illinois
Master of Science, December, 1991
Major: Applied Computer Science
Project: HEC 244: A Multimedia Extravaganza

Iowa State University, Ames, Iowa
Doctor of Philosophy, 1985
Major: Statistics
Thesis: Order Statistics and Concomitant Variables

Iowa State University, Ames, Iowa
Master of Science, 1982
Major: Statistics

University of Winnipeg, Winnipeg, Canada
Bachelor of Science: 1980
Gold medal winner for academic excellence in Statistics and Science

Personal

- Permanent US Resident (Canadian citizen)
- Married with 3 children
- Interests include app development, aviation, crosswords, electronics, games
- Co-host of the podcast [Jean & Mike Do The New York Times Crossword](#)