Jennifer S. Kay

Rowan University   Phone: (856) 256-4593
Computer Science Department   kay@rowan.edu
201 Mullica Hill Road   http://www.rowan.edu/~kay
Glassboro, NJ 08028   http://www.rowan.edu/robots

Education

Carnegie Mellon University, Pittsburgh, PA.
Ph.D. in Computer Science   **December 1996**
M.S. in Computer Science   **May 1993**

University of Pennsylvania, Philadelphia, PA.
B.S.E. (cum laude) Computer Science and Engineering   **May 1988**
B.A. (cum laude) Mathematics   **May 1988**

Somerville College, Oxford University, Oxford, England   **1985-1986**
        Registered Visiting Student
        Mathematics and Computation

Major Awards & Honors

Recipient, Lindback Award for Excellence in Teaching, Rowan University
Senior Member, Association for Computing Machinery (ACM)
Senior Member, Institute for Electrical and Electronics Engineers (IEEE)
Recipient, Best Paper Award, CCSCE 2009

Professional Appointments

Computer Science Department, Rowan University   **September 1998 - Present**
Professor (2012-present)
Associate Professor (1998 – 2012)
Department Chair (2004 – 2007)
Assistant Chair (2007 – 2008)

GRASP Laboratory, University of Pennsylvania   **2016-2017**
Visiting Scholar (Sabbatical Year)   **2009-2010**

Computing Sciences Department, Villanova University   **Summers 1997, 1998, 1999**
Instructor   **& Spring 1998**

Artificial Intelligence Laboratory,   **January 1997 – August 1998**
Lockheed Martin Advanced Technology Laboratories (ATL)
Senior Member Engineering Staff

School of Computer Science, Carnegie Mellon University   **September 1988 – May 1989**
Research Assistant   **& September 1990 – December 2006**
Instructor (Fall 1991)
Teaching Assistant (Spring 1989)

Artificial Intelligence Vision Research Unit (AIVRU),   **1989 – 1990**
University of Sheffield (UK)
Research Assistant

University of Pennsylvania   **Fall 1986-Spring 1988**
Tutor in Computer Science and Mathematics (1986-1988)
Grader (Fall 1987)

GRASP Laboratory, University of Pennsylvania   **Summer 1987**
Research Assistant

Research Interests

Computer Science Education: Pedagogy of computer science, curricular design, CS1, CS2, integration in general education, K-12 computer science education, impact of national and state legislation on education and enrollments.

Educational Robotics: Tools, interfaces, curricular design, AI education, computer science education, general education, K-12 STEM education, K-12 computer science education, STEM outreach.

Massive-Scale Online Education: Design and evaluation of MOOCs, effective interfaces, blended systems, effective peer evaluation.

Artificial Intelligence: Intelligent software agents, fully autonomous and semi-autonomous robotics (particularly mobile robotics), vehicle teleoperation, computer vision.

Human Computer Interaction: User interfaces, computers and the elderly.

Publications

* Co-Author was undergraduate student
\+ Co-Author was MS student

Refereed Publications
Jennifer S. Kay, "Peer Grading without Protest: The SPARK Approach to Summative Peer Assessment, to appear in the *Proceedings of the 53rd ACM Technical Symposium on Computer Science Education, SIGCSE 2022,* March 2022 (29% acceptance rate).

Jennifer S. Kay, Colin Lambe, Tyler Nolan, Tom Grello, Anthony Breitzman, Apples to Apples: Differences in Viewer Retention When Longer Content is Chopped into Smaller Bites. *Proc. of the Sixth (2019) ACM Conference on Learning @ Scale (L@S '19).* ACM, New York, NY, USA. (34% acceptance rate) DOI: https://doi.org/10.1145/3330430.3333617

Jennifer S. Kay, Tyler J. Nolan, and Thomas M. Grello. 2016. "The Distributed Esteemed Endorser Review: A Novel Approach to Participant Assessment in MOOCs" (Work in Progress). *In Proceedings of the Third (2016) ACM Conference on Learning @ Scale (L@S '16).* ACM, New York, NY, USA, 157-160. DOI: http://dx.doi.org/10.1145/2876034.2893396

Jennifer S. Kay, Janet G. Moss, Shelly Engelman, and Tom McKlin, Sneaking In Through The Back Door: Introducing K-12 Teachers to Robot Programming, *Proceedings of the 45th ACM Technical Symposium on Computer Science Education*, SIGCSE 2014, March 2014. DOI https://doi.org/10.1145/2538862.2538972

Jennifer S. Kay and Janet G. Moss, "Using Robots to Teach Programming to K-12 Teachers," *Proceedings of FIE 2012, ASEE/IEEE Frontiers in Education Conference,* October 2012. DOI: http://dx.doi.org/10.1109/FIE.2012.6462375

Douglas Blank, Jennifer S. Kay, James B. Marshall, Keith O'Hara, and Mark Russo, "Calico: A Multi-Programming-Language, Multi-Context Framework Designed for Computer Science Education." in the *Proceedings of SIGCSE 2012, the 43rd ACM Technical Symposium on Computer Science Education,* March 2012. http://dx.doi.org/10.1145/2157136.2157158

Kevin Freisen[*], Tim Sanders[+], and Jennifer S. Kay, "Public School Students Left Behind: Contrasting The Trends In Public And Private School Computer Science Advanced Placement Participation." *Proceedings of FIE 2011, IEEE Frontiers in Education Conference,* October 2011. DOI= http://dx.doi.org/10.1109/FIE.2011.6143080

Stacey L. Montresor[*], Jennifer S. Kay, Michel Tokic, and Jonathan M. Summerton[*], "Work In Progress - Programming In A Confined Space – A Case Study In Porting Modern Robot Software To An Antique Platform." *Proceedings of FIE 2011, IEEE Frontiers in Education Conference,* October 2011. DOI= http://dx.doi.org/10.1109/FIE.2011.6143099

Jennifer S. Kay, "Contextualized Approaches to Introductory Computer Science: The Key to Making Computer Science Relevant or Simply Bait and Switch?" *Proceedings of SIGCSE 2011, The 42nd ACM Technical Symposium on Computer Science Education,* March 2011. DOI= http://dx.doi.org/10.1145/1953163.1953219

Jennifer S. Kay, "Robots as Recruitment Tools in Computer Science: The New Frontier or Simply Bait and Switch?" *Proceedings of the AAAI Spring Symposium on Educational Robotics and Beyond: Design and Evaluation*, March 2010. http://www.aaai.org/ocs/index.php/SSS/SSS10/paper/view/1144/2531

Jennifer S. Kay, "Robots in the Classroom ... And the Dorm Room," *Journal of Computing Sciences in Colleges*, Vol. 25, No. 3, January 2010, pp.128-133. **Winner, Best paper award, CCSCE 2009**. http://dl.acm.org/citation.cfm?id=1629116.1629139

Jennifer S. Kay, "From Mad Libs to Tic Tac Toe: Using Robots and Game Programming as a Theme in an Introduction to Programming Course for Non-Majors," in *Proceedings of the 22nd International FLAIRS Conference*, May 2009.
http://www.aaai.org/ocs/index.php/FLAIRS/2009/paper/view/126/272

Adrian Rusu, Amalia Rusu, Jennifer S. Kay, and Hong Zhang , "Pushing Beyond Traditional School and Course Boundaries: High School and University Students Collaborate on an Interdisciplinary Project," in *Proceedings of FIE 2007: The Frontiers in Education Conference*, Milwaukee, October 2007. http://fie-conference.org/fie2007/papers/1236.pdf

Jennifer S. Kay, "Getting Down & Dirty: Incorporating Homogeneous Transformations and Robot Kinematics into a Computer Science Robotics Class," in *Proceedings of the AAAI Spring Symposium on Robots and Robot Venues*, March 2007.
http://www.aaai.org/Papers/Symposia/Spring/2007/SS-07-09/SS07-09-017.pdf

Jennifer S. Kay, "Two Lab Exercises for an Introductory Robotics Class," in *Proceedings of the AAAI Spring Symposium on Accessible Hands-on AI and Robotics Education*, March 2004.
http://www.aaai.org/Papers/Symposia/Spring/2004/SS-04-01/SS04-01-033.pdf

Jennifer S. Kay, "Teaching Robotics from a Computer Science Perspective," *Journal of Computing Sciences in Colleges*, vol. 19, no. 2, December 2003.
http://dl.acm.org/citation.cfm?id=948785.948831

Keith O'Hara[*] and Jennifer S. Kay, "Open Source Software and Computer Science Education," *Journal of Computing Sciences in Colleges*, vol. 18, no. 3, Februrary, 2003.
http://dl.acm.org/citation.cfm?id=771712.771716

Keith O'Hara[*] and Jennifer S. Kay, "Investigating Open Source Software and Educational Robotics," *Journal of Computing Sciences in Colleges*, vol. 18, no. 3, Februrary, 2003.
http://dl.acm.org/citation.cfm?id=771712.771717

Linda Head, Jennifer S. Kay, John Schmalzel, Glenn Arr[*], Christopher Foster[*], Steven McDermott[*], Michael Sterner[*], Kenneth Whelan[*], and Jason Wollenberg[*], "Building Confidence and Skills: A Prep Course for Computer Programming," in *Proceedings of the 2001 American Society for Engineering Education Annual Conference & Exposition*, Albuquerque, NM, June 2001. http://soa.asee.org/paper/conference/paper-view.cfm?id=15582

Jennifer S. Kay, "Using the Force: How Star Wars Can Help You Teach Recursion," *Journal of Computing in Small Colleges*, vol. 15, no. 5, May 2000.
http://portal.acm.org/citation.cfm?id=364207

Jennifer S. Kay and Patricia Kay, "Windows on the World: Expanding the View from the Nursing Home," in *Proceedings of CHI '99: ACM Conference on Human Factors and Computing Systems, Extended Abstracts*, 1999. http://doi.acm.org/10.1145/632716.632747

Russell Lentini, Goutham Rao, Jon Thies and Jennifer S. Kay, "EMAA: An Extendable Mobile Agent Architecture," *AAAI-98 Workshop on Software Tools for Developing Agents Extended Abstracts*, 1998. http://www.aaai.org/Papers/Workshops/1998/WS-98-10/WS98-10-023.pdf

Jennifer S. Kay, Julius Etzl, Goutham Rao, and Jon Thies, "The ATL Postmaster: A System for Agent Collaboration and Information Dissemination," in *Proceedings of Agents '98: The Second International Conference on Autonomous Agents*, 1998. http://dl.acm.org/citation.cfm?id=280854

Jennifer S. Kay and Charles Thorpe, "An Examination of the STRIPE Vehicle Teleoperation System," in *Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '97)*, Grenoble, France, September 1997. http://www.ri.cmu.edu/pub_files/pub2/kay_j_s_1997_1/kay_j_s_1997_1.pdf

Jennifer S. Kay and Casey Boyd, "Common Ground for CHI Students at CHI 96: A CHI 96 Special Interest Group," in *SIGCHI Bulletin*, Vol 28, No. 4, p.56, October 1996.

Casey Boyd and Jennifer S. Kay, "Students at CHI," in *Proceedings of CHI '99: ACM Conference on Human Factors and Computing Systems, Conference Companion*, 1996. http://doi.acm.org/10.1145/257089.257339

Jennifer S. Kay, "STRIPE: Remote Driving Using Limited Image Data [doctoral consortium]," in *Proceedings of CHI '95: ACM Conference on Human Factors and Computing Systems, Conference Companion*, 1995. http://doi.acm.org/10.1145/223355.223426

Jennifer S. Kay, "STRIPE: Remote Driving Using Limited Image Data [poster], in *Proceedings of CHI '95: ACM Conference on Human Factors and Computing Systems, Conference Companion*, 1995. http://doi.acm.org/10.1145/223355.223453

Charles Thorpe, Charalambos Athanassiou, Jennifer S. Kay, Tom Mitchell, and Dean Pomerleau "Machine Learning and Human Interface for the CMU Navlab," in *Proceedings of the Sixth International Symposium on Robotics Research*, Pittsburgh, PA, October 1993.

Jennifer S. Kay and Charles Thorpe, "STRIPE: Supervised TeleRobotics Using Incremental Polygonal Earth Geometry," in *Proceedings of the Third International Conference on Intelligent Autonomous Systems*, Pittsburgh, PA, February 1993.

Michael Rygol, Stephen Pollard, Chris Brown, and Jennifer S. Kay, "MARVIN & TINA: A Multiprocessor 3D Vision System," in *Proceedings of the Second International Conference on Applications of Transputers*, Southampton, UK, July 1990.

Guest Editor

With Tom Lauwers, BirdBrain Technologies: Special Issue of Taylor & Francis CSE (Computer Science Education) on *Robotics in Computer Science Education*.
Vol. 23, Iss. 4, http://www.tandfonline.com/toc/ncse20/23/4.   14 Nov 2013

Book Chapter

Jennifer Kay and Charles Thorpe, "STRIPE: Low-Bandwidth and High-Latency Teleoperation." Chapter in Intelligent Unmanned Ground Vehicles, Autonomous Navigation Research at Carnegie Mellon, edited by Martial Hebert, Charles Thorpe, and Anthony Stentz, Kluwer Academic Publishers, 1996.

Tutorial

Doug Blank, Laura Blankenship, Ashley Gavin, Jim Marshall, Jennifer S. Kay, Keith O'Hara, Mark F. Russo, "Computer Science with Calico," Computer Science Teachers Association (CSTA) Annual Conference, July 2013.

Refereed Presentations, Posters, and Published Summaries

Jennifer S. Kay, "Bringing Homework Home: In Person Assessment of Online Learning," Learning with MOOCs III, University of Pennsylvania, October 2016.

Jennifer S. Kay and Tom McKlin, "The Challenges of Using a MOOC to Introduce 'Absolute Beginners' to Programming on Specialized Hardware" (Poster), *Proceedings of Learning @ Scale*, March 2014. https://doi.org/10.1145/2556325.2567886

Erin Mindell (Moderator), Karen Brennan, Gwendolyn Britton, Jennifer S. Kay, and Jennifer Rosato, "CS Professional Development MOOCs," In the *Proceedings of the 45th ACM Technical Symposium on Computer Science Education*, SIGCSE 2014, March 2014 https://doi.org/10.1145/2538862.2538872

Jennifer S. Kay (Moderator), Frank Klassner, Fred G. Martin, David P. Miller, Keith J. O'Hara, "Panel: Beyond First Impressions and Fine Farewells: Electronic Tangibles Throughout the Curriculum," *Proceedings of the AAAI Spring Symposium on Educational Robotics and Beyond: Design and Evaluation*, March 2010, pp. 58-59. http://www.aaai.org/ocs/index.php/SSS/SSS10/paper/view/1144/1402

Herbert J. Bernstein, Jennifer S. Kay, William McAllister, and Rajendra K. Raj, "Preparing the computing workforce: the interface between K-12 and college," in *Journal of Computing Sciences in Colleges,* Vol. 23, No. 3 (Jan. 2008), 175-178. http://dl.acm.org/citation.cfm?id=1295151

Rajendra K. Raj, Jennifer S. Kay, Herbert J. Bernstein, Chris Okasaki, Jeffrey Forbes, and Virginia Teller, "Broken or Not? Fixing Undergraduate Computing Education in a Multi-Disciplinary World," *Journal of Computing Sciences in Colleges,* Vol. 22, No. 6, pp. 53-55, June 2007. http://dl.acm.org/citation.cfm?id=1231091.1231101

Invited Publications

Jennifer S. Kay and Tom Lauwers, "Robotics in Computer Science Education," *Computer Science Education* Vol. 23, Iss. 4, Taylor & Francis, 2013, DOI= http://dx.doi.org/10.1080/08993408.2013.856614

Casey Boyd and Jennifer S. Kay, "Common Ground for CHI Students at CHI 96." In The SIGCHI Bulletin, Vol. 28, No. 4, October 1996.

Jennifer S. Kay and Charles Thorpe, "Operator Interface Design Issues in a Low-Bandwidth or High-Latency Vehicle Teleoperation System." Presented at the 25th International Conference on Environmental Systems, San Diego, CA, July 1995, available as SAE Technical Report 951485. Warrendale, PA: Society of Automotive Engineers International.

Ph.D. Thesis

Jennifer S. Kay, "STRIPE: Remote Driving Using Limited Image Data." Ph.D. Thesis, Carnegie Mellon University, January 1997. Available as technical report CMU-CS-97-100, Computer Science Department, Carnegie Mellon University, Pittsburgh, PA.

Technical Reports

Jennifer S. Kay, "Cryptanalysis Techniques: An Example Using Kerberos," *Technical Report CMU-CS-95-115*, Computer Science Department, Carnegie Mellon University, Pittsburgh, PA, September 1995.
Jennifer S. Kay and Stephen Pollard,, "Analysis of Hand Eye Calibration used for Pick and Place Routines," *AIVRU Technical Report 047*, Artificial Intelligence Vision Research Unit, University of Sheffield, Sheffield, UK, April 1990.

Jennifer S. Kay, "High Level Tools for Controlling the RTX," *AIVRU Technical Report 046*, Artificial Intelligence Vision Research Unit, University of Sheffield, Sheffield, UK, February 1990.

Jennifer S. Kay, "Analysis of Tsai and Lenz's Calibration Algorithm," *AIVRU Technical Report 04*3, Artificial Intelligence Vision Research Unit, University of Sheffield, Sheffield, UK, September 1989.

Public Web Presence

MOOCs (Massive Open Online Courses)

Educational Robots for Absolute Beginners – EV3 Edition   **April 2015 – Present**
Self-paced course for K-12 teachers introducing LEGO EV3 robotic programming.   Over 8000 participants as of October 2021.
https://cs4hsev3robots.appspot.com/

Educational Robots for Absolute Beginners – NXT Edition   **November 2013 – Present**
Self-paced course for K-12 teachers introducing LEGO NXT robotic
programming.   Over 9000 participants as of October 2021.
https://cs4hsrobots.appspot.com/

YouTube
https://www.youtube.com/RowanRobots
Over 650,000 Views and 1200 Subscribers as of October 2021

Conferences & Events Chaired

Co-Chair, **ACM Philadelphia Celebration of Women in Computing**   **April 2018**
University of Pennsylvania, Philadelphia, PA
https://tinyurl.com/phicwic2018info

Co-Chair, **Rowan University FIRST Lego League Qualifier**   **1997 – 2015**
http://elvis.rowan.edu/firstrobots/
Glassboro, NJ

Co-Chair, **SIGCSE Experience It!**   **2012 & 2014**
https://tinyurl.com/experience-it14
Atlanta, GA & Raleigh, NC

Co-Chair, SIGCSE Robot Hoedown and Rodeo   **March 2011**
http://www.rowan.edu/~kay/sigcse/
Dallas TX

Grants and other Financial Support

CS Professional Development: Rowan CS Hub ($0*)   **April 2020 – June 2021**
NJ Dept. of Education
* Grant for $265,000 – received notice of award from NJDoE
and then was frozen and eventually cancelled due to COVID-19.

Developing Empirical Education Research Studies ($0)**   **July 2020 & March 2021**
Workshop Travel Award
U of Alabama, NC State, U of Virginia
(**Workshop meetings were moved to zoom)

SIGCSE Peer Teaching Summit Travel Award ($1000)   **March 2019**
Duke University & Google

Google Ignite CS Award ($3,851)   **March 2017**
Google Corporation
Supporting ACM-W Club

CS Education Summit Travel Award ($1500)   **March 2017**
Carnegie Mellon U & National Science Foundation

CRA-W Workshop Travel Award ($700)   **November 2016**
Computing Research Association

NCWIT Student Seed Fund ($3000)   **August 2016**
National Center for Women in Information Technology
Supporting ACM-W Club

Computing in the Arts Workshop Travel Award ($900)   **May 2015**
College of Charleston

Rowan CS4HS 2014 Research ($34,696)   **September 2014**
Google Corporation

Course Builder Workshop Travel Award ($1,800)   **May 2014**
Google Corporation

Rowan CS4HS 2014 ($35,000)   **March 2014**
Google Corporation

J2EE Cloud Project ($40,545)   **October 2013**
Mission Solutions Engineering
(Co-PI with Ganesh Baliga & Vasil Hnatyshin(PI))

Rowan University FIRST LEGO League 2013 ($1,000)   **September 2013**
Terra Nova
(Co-PI Hong Zhang)

Multi-cursor Project ($36,991)   **June 2013**
Mission Solutions Engineering
(Co-PI with Ganesh Baliga & Vasil Hnatyshin (PI))

Rowan CS4HS 2013 ($34,000)   **April 2013**
Google Corporation

Junior Aim High ($50,000)   **April 2013**
AT&T Mid Atlantic Corporation
(Senior Personnel with PIs Eric Milou, Kara Ieva, and Jill Perry)

IRIS Project Collaboration: Phase 2 ($50,131)   **February 2013**
Mission Solutions Engineering
(Co-PI with Ganesh Baliga & Vasil Hnatyshin (PI))

IRIS Project Collaboration: Phase 1 ($10,631)   **October 2012**
Mission Solutions Engineering
(Co-PI with Ganesh Baliga & Vasil Hnatyshin (PI))

Rowan University FIRST LEGO League 2012 ($2,500)   **September 2012**
Terra Nova
(Co-PI Hong Zhang)

Non Salary Financial Support Grant ($6,316)   **July 2012**
Rowan University

Rowan CS4HS 2012 ($10,000)   **April 2012**
Google Corporation

Experience IT! ($3,200)   **March 2012**
Turingscraft Corporation
(Co-PI Doug Blank, Bryn Mawr College)

Rowan University FIRST LEGO League 2011 ($1,000)   **October 2011**
PBs Grille
(Co-PI Hong Zhang)

Rowan CS4HS 2011 ($15,000)   **March 2011**
Google
Corporation

Robot Hoedown & Rodeo at SIGCSE 2011 ($6,283)   **February 2011**
National Science Foundation
(Co-PI Tom Lauwers, BirdBrain Technologies)

CRA-W Workshop Travel Award ($900)   **February 2011**
Computing Research Association

SIGCSE Robot Hoedown & Rodeo ($3,500 + $840 in equipment)   **January 2011**
iRobot Corporation
(Co-PI Tom Lauwers, BirdBrain Technologies)

Rowan University FIRST LEGO League 2010 ($500)   **December 2010**
ProComputer Service
(Co-PI Hong Zhang)

Media Computation Project ($300)   **June 2010**
National Science Foundation / Georgia Institute of Technology (Travel Scholarship)

CRA-W Workshop Travel Award ($1,200)   **May 2010**
Computing Research
Association

Rowan University FIRST LEGO League 2009 ($2,500)   **October 2009**
ProComputer Service
(Co-PI Hong Zhang)

MLeXAI Project ($600)   **February 2009**
National Science Foundation / University of Hartford (Travel Scholarship)

Robots in the Classroom for Introductory CS ($5000)   **July 2008**
Institute for Personal Robots in Education

Separately Budgeted Research Grant   **2000 – 2001**
Rowan University

Sponsored Research and Creative Activities Grant   **1999**
Rowan University

NASA Graduate Student Researchers Program Fellow   **1994-1996**
U.S. National Aeronautics and Space Administration

Grace Hopper Conference   **May 1994**
Intel Foundation (Travel Scholarship)

Japan Manufacturing and Research Facility Tour Fellow   **April 1994**
Japanese Science and Technology Management Program

Graduate Fellow   **1990-1991**
General Electric Foundation

Student Club Advising
Co-advisor   **2016 - present**
Rowan University ACM-W Club
(Association for Computing Machinery's Women in Computing)

Co-Advisor   **2000-2006**
Rowan University Hillel Club

Selected External Coverage of My Work

NJ Teachers Magazine   **May 2017**
"The root cause for STEM: Integrate Everything" by Stephanie Jones

SJ Magazine   **May 2017**
"Cool Jobs" by Mary Lou Sheffield

Philadelphia Inquirer   **January 15, 2014**
"Rowan Computer Professor Pushes the Right Buttons"

Philadelphia Inquirer   **November 14, 2013**
"Online Course to Educate Teachers on Technology," by Jonathan Lai.

Burlington County Times   **April 9, 2013**
"Evesham Professor Awarded Top Honor," by Kristen Coppock.

Gloucester County Times   **April 21, 2012**
"Students' Ideas Fly at Research Symposium," by Jessica Driscoll.

Gloucester County Times   **July 3, 2011**
"Local Teachers Learn How to Use Lego Robots to Teach Technology at Rowan University
Workshop" by Jessica Driscoll.

Democratic Staff of the House Committee on Science, Space, & Technology   **July 2011**
"Out Of Focus: A Critical Assessment of the Senate Report, 'The National Science Foundation:
Under the Microscope."
https://science.house.gov/staff-reports/out-of-focus-a-critical-assessment-of-the-senate-report-the-national-science-foundation-under-the-microscope

U.S. Senator Tom A. Coburn   **April 2011**
The National Science Foundation: Under the Microscope
https://web.archive.org/web/20141230203058/http://www.coburn.senate.gov/public/index.cfm?a=Files.Serve&File_id=2dccf06d-65fe-4087-b58d-b43ff68987fa

CBS News, Dallas, TX   **March 2011**
"Through the Lens: Learning to Make Robots Dance."
http://video.dallas.cbslocal.com/global/video/flash/popupplayer.asp?ClipID1=5651076

Courier Post   **December 5, 2010**
"Robot Competition Allows Children to Invent, Explore," by Joe Cooney.

South Brunswick Post   **December 20, 2009**
"Lego Robotics Team Builds Teamwork," Article about Rowan FIRST LEGO League Robot
Competition.

Courier Post   **December 6, 2009**
"Students' teamwork could take them far," by Lavinia DeCastro.

Graduating Engineer & Computer Careers Magazine   **Winter 2002**
Interviewed for the story "AAAAAAAAAAH! (Interview Horror Stories)"

Today's Engineer (IEEE)   **1999**
Respondent for "When you Uncover Unethical Conduct" column. Vol. 2, No. 2

World Wide Web Materials

Educational Robots for Absolute Beginners – EV3 Edition   **April 2015 – Present**
*Self-paced course for K-12 teachers introducing LEGO EV3 robotic
programming.   Over 8000 participants as of October 2021.*
https://cs4hsev3robots.appspot.com/

Educational Robots for Absolute Beginners – NXT Edition   **November 2013 – Present**
*Self-paced course for K-12 teachers introducing LEGO NXT robotic
programming.   Over 9000 participants as of October 2021.*
https://cs4hsrobots.appspot.com/

Robot Hoedown & Rodeo (SIGCSE 2011)   **2011**
Resources for event as well as guide to robotics hardware and software
http://www.rowan.edu/~kay/sigcse2011

Rowan Robots YouTube Channel   **2008 – Present**
Includes CS Education videos on robotics and other topics.
Over 650,000 Views and 1200 Subscribers as of October 2021
https://www.youtube.com/user/RowanRobots

Rowan University FIRST LEGO League   **2007 – 2015**
Information on current and upcoming events as well as previous events
http://www.rowan.edu/firstlego

Rowan University Laboratory for Educational Robotics (RULER)   **2003 – Present**
Resources for introductory and advanced robotics education for general and advanced audiences
http://www.rowan.edu/ruler

Visual C++ Tutorial   **2001**
With Rose Boiano
http://elvis.rowan.edu/~kay/cpp/vc6_tutorial/index.html

<u>Awards & Honors</u>

Faculty Center Wall of Fame (Advising)   **Spring 2016**
Rowan University

IEEE Senior Member   **August 2014**

Lindback Distinguished Teaching Award   **April 2013**
Rowan University

ACM Senior Member   **May 2012**
Association for Computing Machinery

Best Paper Award   **October 2009**
Consortium for Computing Sciences in Colleges Eastern Conference

Faculty Center Wall of Fame (Teaching)   **Spring 2005**
Rowan University

Faculty Center Wall of Fame (Teaching)   **Spring 2003**
Rowan University