

ABOUT ME

I am a user experience (UX) engineering psychologist working to end social inequity through better research and novel solutions. Since my days of working in an under-resourced school while earning an engineering degree, I have explored and created solutions to improve lives. From inspiring students as a special education teacher to influencing academic discourse as a published author, I am a constant advocate of putting people first in the design process, particularly those who are underserved.

EXPERIENCE

User Experience Lead & Engineer, John Deere (Iowa & Illinois) 2014-Present

At John Deere, a global company committed to those linked to the land, I am seeking ways to improve the working experience of those who grow our food and build our infrastructure. I started as a Senior UX Engineer in 2014 and was promoted to UX Lead in 2016 to drive UX strategy.

- I am establishing myself as John Deere's expert on accessibility and inclusive design. From age-related declines to limited language proficiency, I am exploring metrics and establishing strategies to ensure our solutions are usable by all.
- I created a prototype wearable device that delivers timely instructional content to under-trained workers. This solution was informed by research conducted with the local community and farm workers themselves.
- To grow the HCD practice, I have guided dozens of junior researchers and designers, as well as created 12 short courses, which have been accessed by hundreds of employees.

User Experience Research Assistant, Georgia Institute of Technology (Georgia) 2007-2014

Returning to school at a leading research university committed to improving the human condition, I was afforded numerous opportunities to affect some of our biggest social challenges.

- I secured grants from the Gates Foundation totaling \$150,000 to create three massive open online courses (MOOCs). For one course about psychology, I established collaboration with Carnegie Mellon to bring the latest curriculum to 41,000 students globally, all of whom accessed the course for free.
- With an emphasis on veterans, I coordinated the creation of a highly-individualized Health IT training program, working with the technology transfer office and two community college systems.
- To engage people with vision impairments in aquaria exhibits, I brought scientific rigor to an effort that uses computer vision, artificial intelligence, and music to create a new experience. Having earned advanced degrees, it was now time to bring my knowledge and experience to those who feed and build the world.

Academic Program Coordinator, Johns Hopkins University (Maryland) 2006-2007

At Johns Hopkins, a place that brings knowledge and discoveries to the world, I began to see how seemingly small decisions could have large impacts, even among students with ample opportunities. As the rules of the entrepreneurship minor that I administered evolved, I worked with the team to communicate and share out these changes. Despite our best efforts, it became clear to me how easily it could be for individuals to fall through the cracks. I realized I was lacking the research skills to deeply understand complicated issues like these, so I returned to school.

Research Assistant, American Institutes for Research (District of Columbia) 2005-2006

I joined AIR, one of the world's largest behavioral and social science organizations dedicated to enhancing everyday life. I created a rubric for evaluating the accessibility and inclusiveness of science curricula for students with learning disabilities. I also assisted with the creation of questionnaires and the processing of state and local data to help administrators reflect on educational outcomes for underserved populations. I left this position to learn about the role of administrators in influencing outcomes.

Special Education Teacher, New Orleans Public Schools (Louisiana) 2003-2005
 Selected as a Teach for America corps member, I joined a diverse network of leaders who confront educational inequity. My goal was twofold: To create an engaging learning environment and to better know some of the challenges facing children. My students achieved a full year's growth in reading in a single calendar year, a rare feat even among the general education classrooms at the school. My education, too, was profound. The children I taught came from homes where food was limited and violence was rampant. Hoping to affect change more broadly, I left the classroom to work at the national level.

**HONORS AND
DISTINCTIONS**

Mobile App of the Year (Finalist), Prometheus Awards 2017
Enterprise Innovation Award, John Deere 2017
Certificate of Excellence in Reviewing, Journal of Computers & Education 2016
Human Subjects Researcher, Collaborative Institutional Training Initiative 2007-2014
Student Member with Honors, Human Factors and Ergonomics Society 2013
100 Most Important Future Ed Tech People, Tech & Learning Magazine 2010
Certified Special Education Teacher, Louisiana State Department of Education 2003-2007

EDUCATION

DOCTOR OF PHILOSOPHY, ENGINEERING PSYCHOLOGY

Problem Solving and Educational Technology Lab 2014
 Georgia Institute of Technology, Atlanta, GA

BACHELOR OF SCIENCE, MECHANICAL ENGINEERING & PSYCHOLOGY

Rensselaer Polytechnic Institute, Troy, NY 2003

SERVICE

REVIEWER

Reviewer, Journal of Computers & Education 2013-Present
Reviewer, ISO 9241 (Process for enabling, executing and assessing human-centered design within organizations) and ISO 25065 (User requirements specification) 2017
Reviewer, Annual Meeting of the Human Factors and Ergonomics Society 2010-2012

LEADERSHIP & VOLUNTEERING

Social Media Manager, Ergonomics in Design Blog 2013-2014
Awards Coordinator, HFES Training Technical Group 2013-2014
Campus Recruitment Ambassador, Teach for America 2013-2014
Lab Manager, Problem Solving and Educational Technology Lab 2008-2014
Tutor, Grades 4-12 Math and Science, SAT Math 2008-2014
Committee Member, Engineering Psychology Advisory Committee 2010-2012
Committee Member, National Ergonomics Month Committee 2010-2012
Student Representative, Georgia Tech Engineering Psychology Program 2010-2011
President, Human Factors and Ergonomics Society, Georgia Tech Chapter 2008-2010
Volunteer Recruiter, Teach for America 2005-2007
Tutor, Tutor Time 2000-2003
Classroom Assistant, America Reads, America Counts 1999-2003

CONFERENCES & CONVENTIONS

Session Chair, Georgia Tech Engineering Psychology Colloquium 2013
Student Volunteer, International Symposium on Mixed and Augmented Reality 2012
Augmented Reality Demo Volunteer, USA Science and Engineering Festival 2012
Tour Volunteer, Usability Professionals' Association (UPA) Conference 2011
Student Volunteer, Computer-Human Interaction (CHI) Conference 2010
HF/E Demonstration Volunteer, Science at Hand Day at Fernbank Museum 2008-2012

PROFESSIONAL ASSOCIATIONS	<i>Member</i> , User Experience Professionals Association	2015-Present
	<i>Member</i> , Industrial Designers Society of America	2013-2016
	<i>Member</i> , Human Factors and Ergonomics Society National Chapter	2007-2015
	<i>Member</i> , CHI Atlanta Chapter	2010-2014
	<i>Member</i> , Human Factors and Ergonomics Society Georgia Tech Chapter	2007-2014
	<i>Member</i> , American Psychological Association	2013-2014
	<i>Junior Researcher</i> , European Association for Research in Learning & Instruction	2013-2014
	<i>Member</i> , Special Interest Group on Human-Computer Interaction	2010-2011
	<i>Member</i> , American Psychological Association, Division 21	2009-2010

PUBLICATIONS & PEER-REVIEWED PUBLICATIONS

- Baker, P. M. A., Breznitz, S., Seavey, A., & Bujak, K. R.** (2016). 21st century universities as drivers for innovation: The dimensions of learning, research, and collaboration. In U. Hilpert (Ed.), *Handbook of politics and technology* (pp. 236-248). Berlin: Routledge.
- Margulieux, L. E., Chen, D., McDonald, J. D., **Bujak, K. R.**, Gable, T. M., Darling, C. M., Schaeffer, L. M., & Barg-Walkow, L. H. (2016). Online collaboration applications evaluated by ease of use. *Ergonomics in Design* 24 (2), 21-30.
- Bujak, K. R.**, Radu, I., Catrambone, R., MacIntyre, B., Zheng, R., & Golubski G. (2013). A psychological perspective on augmented reality in the mathematics classroom. *Computers & Education*, 68, 536-544.
- Fausset, C. B., **Bujak, K. R.**, Kline, K. A., Beer, J. M., Smarr, C.-A., Adams, A. E., McBride, S. E., & Burnett, J. S. (2012). Leaving the lecture hall: Lessons learned conducting HF/E outside the classroom. *Ergonomics in Design* 20(3), 23-26.
- Caballero, M. D., Kohlmyer, M. A., Greco, E. F. Murray, E. R., **Bujak, K. R.**, Marr, M. J., *et al.* (2012). Comparing large lecture mechanics curricula using the Force Concept Inventory: A five thousand student study. *American Journal of Physics* 80(7), 638-644.

PANELS, INVITED TALKS & PRESENTATIONS

- Bujak, K. R.** (2016). *You are solving tomorrow's challenges today*. Keynote address delivered at the FIRST LEGO League Challenge, Champaign, IL, US.
- Bujak, K. R.** (2015). *User experience: Training materials and application of the practice*. Presented at the John Deere Enterprise Training Collaboration Conference, Rock Island, IL, US.
- Bujak, K. R.**, Trenhalie, M., & Jackson, A. (2015). The Student Employment Model: Students in the Innovation Strategy. In D. F Cohen (Chair), *Pygmalion Tech Festival*. Panel conducted at the University of Illinois Urbana Champaign, Champaign, IL, US.
- Bujak, K. R.**, Moberly, L., Miller-Criner, L., Trenhaile, M., & Jones, B. (2015). Design at John Deere. In D. F Cohen (Chair), *Graphic design*. Panel conducted at the School of Art and Design, University of Illinois Urbana Champaign, Champaign, IL, US.
- Bujak, K. R.**, Tilton, A., & Corrales, G. P. (2015). Wearable technology at John Deere. In P. Wagner (Chair), *Wearables*. Panel conducted at the meeting of the University of Illinois Research Park Mobile Development Day, Champaign, IL, US.
- Bujak, K. R.**, Taylor, K., Wondra, N., & Eckhardt, J. (2014). Student research opportunities at John Deere. In L. Weisskopf-Bleill (Chair), *Research park tech talk*. Panel conducted at the meeting of the University of Illinois Urbana Champaign, Champaign, IL, US.
- Bujak, K. R.**, Sutton, C., & Dow, B. (2014). *Wearable technology: The other side of "going mobile"*. Presented at the John Deere Enterprise Electronics Conference, Waterloo, IA, US.
- Margulieux, L. E., **Bujak, K. R.**, McCracken, W. M., & Majerich, D. (2014). *Hybrid, blended, flipped, and inverted: Defining terms in a two dimensional taxonomy*. Paper presented at the Hawaii International Conference on Education (HICE), Honolulu, HI, US.

- Rudiger, L., Spencer, S., & **Bujak, K. R.** (2013). *Room to grow: Enhancing learning by supporting autonomy*. Paper presented at the Society for the Teaching of Psychology Best Practices Conference, Atlanta, GA, US.
- Bujak, K. R.**, & Catrambone, R. (2013). *A divergence between assigned and reported learning strategy use*. Paper presented at the 15th Biennial Conference of the European Association for Research in Learning and Instruction (EARLI), Munich, Germany.
- Bujak, K. R.**, Catrambone, R., Caballero, M., Schatz, M., & Marr, M. J. (2012). *Can Students Learn a Principled Approach to Solving Problems in an Introductory Physics Course?* Paper presented at the Psychonomic Society Annual Meeting. Minneapolis, MN, USA.
- Bujak, K. R.**, Baker, P. M. A., DeMillo, R., & Sandulli, F. D. (2012). *The evolving university: Beyond disruptive change and institutional innovation*. Paper presented at the 22nd World Congress of Political Science. Madrid, Spain.
- Baker, P. M. A., **Bujak, K. R.**, & DeMillo, R. (2012). *The evolving university: Disruptive change and institutional innovation*. Paper presented at the International Conference on Software Development for Enhancing Accessibility and Fighting Info-exclusion, Douro Region, Portugal.
- Bujak, K. R.** (2012). *Psychology & MOOCs: A Discussion*. Invited colloquium presentation to the School of Psychology, Georgia Tech. Atlanta, GA.
- Bujak, K. R.**, Kline, K., & Margulieux, L. (2011). *Problem solving and educational technology lab overview*. Invited colloquium presentation to the Undergraduate Human Factors Course, Georgia Tech. Atlanta, GA.
- Bujak, K. R.**, Eiriksdottir, E. (2010). *The wonders of excel*. Invited workshop presentation for the Engineering Psychology Workshop Series, Georgia Tech. Atlanta, GA.
- Bujak, K. R.** (2010). *A learning framework: A divergence between assigned and reported activities*. Invited colloquium presentation to the School of Psychology, Georgia Tech. Atlanta, GA.
- Bujak, K. R.**, Bailey Fausset, C., & DeBlasio, J. (2010). *Introduction to human factors and ergonomics*. Invited presentation to Industrial Design class, Kell High School. Marietta, GA.
- Bujak, K. R.** (2009). *Learning science as inquiry through the delegation of information communication*. Invited colloquium presentation to the School of Psychology, Georgia Tech. Atlanta, GA.

REPORTS

- Bujak, K. R.**, Baker, P. M. A., & DeMillo, R. (2012). *The Evolving University: Disruptive Change and Institutional Innovation* (C21U Paper #22012). Atlanta, GA: Georgia Institute of Technology, Center for 21st Century Universities.
- Bujak, K. R.**, Olson, K. E., Burnett, J. S., Olsheski, J. D., Smarr, C., Barg-Walkow, L., *et al.* (2012). *Usability assessment update of the residential, agriculture, commercial, and golf units of <http://www.deere.com>* (HFES/GT-TR-1201). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society.
- Bujak, K. R.** (2010). *A framework of passive-active-constructive study techniques: A divergence between assigned and reported behaviors* (Master's thesis). Georgia Institute of Technology, Atlanta, GA, US.
- Kline, K. A., Smarr, C., **Bujak, K. R.**, Pop, V., & Olsheski, J. D. (2010). *Website evaluation of the education sections of <http://zooatlanta.org>* (HFES/GT-TR-1001). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society.
- Bujak, K. R.**, Adams, A., Baranak, A. S., Beer, J. M., Burnett, J. S., DeBlasio, J. M., *et al.* (2009). *Usability assessment of the residential, agriculture, commercial, and golf units of <http://www.deere.com>* (HFES/GT-TR-0902). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society.
- Adams, A., Beer, J. M., **Bujak, K. R.**, Kline, K. A., McBride, S., and Smarr, C. (2009). *Usability assessment of <http://www.psychology.gatech.edu>* (HFES/GT-TR-0901). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Ergonomics Society.

CONFERENCE POSTERS

- Bujak, K. R.**, Catrambone, R., Caballero, M. D., Marr, M. J., Schatz, M. F. & Kohlmyer, M. A. (2011). *Comparing the matter and interactions curriculum with a traditional physics curriculum: A think aloud study*. Poster presented at the Annual Meeting of the American Educational Research Association (AERA), New Orleans, LA, US.
- Catrambone, R., **Bujak, K. R.**, Eiriksdottir, E., Gane, B. & Kline, K. (2010). *Problem solving and educational technology lab*. Poster presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society (HFES), San Francisco, CA, US.
- Catrambone, R., **Bujak, K. R.**, Eiriksdottir, E., Gane, B. & Kline, K. (2009). *Problem solving and educational technology lab*. Poster presented at the 53rd Annual Meeting of the Human Factors and Ergonomics Society (HFES), San Antonio, TX, US.
- Bujak, K. R.** & Catrambone, R. (2008). *Using text messages to support complex learning tasks*. Poster presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, IL, US.
- Catrambone, R., **Bujak, K. R.**, Eiriksdottir, E., Gane, B. & Kline, K. (2008). *Problem solving and educational technology lab*. Poster presented at the 52nd Annual Meeting of the Human Factors and Ergonomics Society (HFES), New York, NY, US.

PHOTOGRAPHY

- Bujak, K. R.** (Photographer). (2017). *A robot handing an older man mediation* [photograph]. New York, NY: Pearson Publishing.

MEDIA COVERAGE

- Scoble, R. (2016, January). Facebook Live interview with Keith R Bujak.
<https://www.facebook.com/RobertScoble/videos/10153852305869655/>
- Preston, J. (2016, May). Georgia Tech research finds that web apps for the workplace succeed to varying degrees. *GVU Center News Brief*. <http://gvu.gatech.edu/georgia-tech-researchers-find-web-apps-workplace-are-succeeding-varying-degrees>
- IANS (2016, May). Download these free web apps to multi-task better.
Yahoo!News - <https://in.news.yahoo.com/download-free-apps-multi-task-better-072806974.html>
The Times of India, The Economic Times - <http://timesofindia.indiatimes.com/tech/tech-news/Download-these-free-web-apps-to-multi-task-better/articleshow/52446803.cms>
The Statesman - <http://www.thestatesman.com/mobi/news/science-and-tech/get-these-web-apps-for-easier-multi-tasking/144673.html>
Business Standard - http://www.business-standard.com/article/news-ians/download-these-free-web-apps-to-multi-task-better-116052600461_1.html
Zee News - http://zeenews.india.com/news/net-news/these-free-web-apps-can-help-multi-task-effectively_1889067.html
The Free Press Journal - <http://www.freepressjournal.in/download-these-free-web-apps-to-multi-task-better/858415>
Three Novices - <https://threenovices.wordpress.com/2016/05/26/3novices-download-these-free-web-apps-to-multi-task-better/>
Udaipur Kiran - <http://udaipurkiran.com/download-these-free-web-apps-to-multi-task-better/>
Download Jozz - <http://downloadjozz.blogspot.com/2016/05/download-these-free-web-apps-to-multi.html>
Vishva Times - <http://www.vishvatimes.com/download-these-free-web-apps-to-multi-task-better/>
LA Indian - <http://www.laindian.com/desi/newsdetail.asp?id=194279>
Can India - <http://www.canindia.com/these-free-apps-will-help-you-multi-task-efficiently-online/>
- Smith, L. (2016, May). Which free web apps for collaboration are the most user-friendly?.
EurekaAlert.org - http://www.eurekaalert.org/pub_releases/2016-05/hfae-wfw052516.php
Newswise.com - <http://newswise.com/articles/which-free-web-apps-for-collaboration-are-the-most-user-friendly>
Phys.org - <http://phys.org/news/2016-05-free-web-apps-collaboration-user-friendly.html>
Livenetworknews.com - <http://livenetworknews.com/bz/article/100100100101816319>

Scienmag.com - <http://scienmag.com/which-free-web-apps-for-collaboration-are-the-most-user-friendly/>

Allmagnews.com - <http://allmagnews.com/which-free-web-apps-for-collaboration-are-the-most-user-friendly/>

Healthmedicinet.com - <http://healthmedicinet.com/i/which-free-web-apps-for-collaboration-are-the-most-user-friendly/>

Science Codex -

http://www.sciencecodex.com/which_free_web_apps_for_collaboration_are_the_most_userfriendly-183151

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<https://researchbuzz.me/2016/05/26/congress-gov-satellite-imagery-texas-floods-more-thursday-buzz-may-26-2016/> and <https://rbfirehose.com/2016/05/25/research-the-usability-of-online-collaborative-apps/>