

BRIAN LUKOFF

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SUMMARY

Educator, researcher, statistician, engineer, and technology designer energized by both high-level learning design and the nitty-gritty of technical analysis and implementation.

EDUCATION

Ph.D., Learning Sciences and Technology Design September 2010
Stanford University School of Education, Stanford, CA

M.S., Statistics April 2006
Stanford University, Stanford, CA

B.A., Mathematics and College Scholar (*magna cum laude*) May 2004
Cornell University, Ithaca, NY

PROFESSIONAL EXPERIENCE

Co-founder and CEO, Perusall LLC, Brookline, MA 2015 – present

Program Director, Learning Catalytics, Pearson Education, Boston, MA 2013 – 2015

Co-founder and CEO, Learning Catalytics LLC, Brookline, MA 2011 – 2013

Postdoctoral Fellow, Harvard University, Cambridge, MA 2010 – 2013

Software Engineer, adap.tv, San Mateo, CA 2007 – 2010

TEACHING EXPERIENCE

Lecturer, Department of Information, Risk, and Operations Management, McCombs School of Business, University of Texas at Austin, Austin, TX Fall 2014 – present

Fall 2016: Statistics 309H, an introductory statistics course for the Business Honors Program

Spring 2016: Statistics 371G, a course on modeling and statistical analysis for undergraduate business majors

Fall 2014 & Fall 2015: Statistics 309, an introductory statistics course for undergraduate business majors

Lecturer, Department of Mathematics, Boston University, Boston, MA Spring 2012 – Fall 2012

Fall 2012: Math 121, a large introductory calculus course geared towards undergraduate business and social science students

Spring 2012: Math 294, an abstract algebra course primarily for advanced undergraduate mathematics and computer science majors

Lecturer, Department of Mathematics, Harvard University, Cambridge, MA Fall 2011

Fall 2011: Math 1a, an introductory calculus course consisting primarily of freshmen and sophomores (Received a Certificate of Teaching Excellence award from Harvard University)

JOURNAL ARTICLES

- Miller, K., Schell, J., Ho, A., Lukoff, B., & Mazur, E. (2015). Response switching and self-efficacy in Peer Instruction classrooms. *Physical Review ST Physics Education Research*.

- Schell, J., Lukoff, B., & Alvarado, C. (2014). Using Early Warning Signs to Predict Academic Risk in Interactive, Blended Teaching Environments. *Internet Learning* 3(2).
- Miller, K., Lasry, N., Lukoff, B., Schell, J., & Mazur, E. (2014). Conceptual question response times in Peer Instruction classrooms. *Physical Review ST Physics Education Research* 10, 020113.
- Heinrichs, W. L., Lukoff, B., Youngblood, P., Dev, P., & Shavelson, R. (2007). Criterion-based Training with Surgical Simulators: Proficiency of Experienced Surgeons. *Journal of the Society of Laparoendoscopic Surgeons* 11(3), 273-302.

BOOK CHAPTERS

- Schell, J., Lukoff, B., & Mazur, E. (2013). Catalyzing learner engagement using cutting-edge classroom response systems in higher education. In C. Wankel & P. Blessinger (Eds.), *Increasing Student Engagement and Retention using Classroom Technologies: Classroom Response Systems and Mediated Discourse Technologies*. Bingley, UK: Emerald Publishing Group.
- Lukoff, B. (2011). Is Faking Inevitable? Person-level Strategies for Reducing Faking. In Ziegler, M., McCann, C., & Roberts, R. D. (Eds.), *New Perspectives on Faking in Personality Assessments*. Oxford University Press.

CONFERENCE PAPERS

- Feusner, M. & Lukoff, B. (2008). Testing for Statistically Significant Differences Between Groups of Scan Patterns. Proceedings of the 2008 Symposium on Eye Tracking Research & Applications, 43-46.
- Lukoff, B., Heggstad, E., Kyllonen, P. & Roberts, R. (2007). Using Decision Trees to Detect Faking in Noncognitive Assessments. Paper for the 2007 American Psychological Association convention, San Francisco, CA.
- Lukoff, B. (2006). Using Decision Trees to Detect Faking in Noncognitive Assessments. In R. D. Roberts, R. Schulze, & P. C. Kyllonen (chairs), Technical Advisory Committee on Faking on Noncognitive Assessments. Princeton, NJ: ETS.
- Lukoff, B. & Schwartz, D. (2006). Student Assessments without Student Testing: A New Approach Using Teachable Agent Technologies. Paper presented at the 2006 Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Wei, X., Shen, X., Lukoff, B., Ho, A., & Haertel, E. (2006). Using Test Content to Address Trend Discrepancies Between NAEP and California State Tests. Paper presented at the 2006 Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Lukoff, B. & Schrader, D. (2004). Reasoning Through Academic Integrity. Paper presented at the Association for Moral Education 30th Annual Conference, Dana Point, CA.

OTHER PUBLICATIONS

- Lukoff, B. (2010). *The design and validation of an automatically-scored constructed-response item type for measuring graphical representation skill*. Doctoral dissertation, Stanford University, Stanford, CA.
- Erickson, V., Ho, A., Holtzman, D., Jaciw, A., Lukoff, B., Shen, X., Wei, X., & Haertel, E. (2007). Closing the Gap? A Comparison of Changes Over Time in White-Black and White-Hispanic Achievement

Gaps on State Assessments Versus State NAEP. CSE Report 721, National Center for Research on Evaluation, Standards, and Student Testing, Los Angeles, CA.

MAJOR PRESENTATIONS

- Lukoff, B. (2014). Using interactivity to make content more accessible, engaging, and relevant in the classroom. Keynote given at the 5th Annual conference of the Heads of Independent Co-educational Schools, Sydney, Australia.
- Lukoff, B. (2014). Eating Your Own Dog Food: Adventures In Building Classroom Software. Keynote given at the 26th International Conference on Technology in Collegiate Mathematics, San Antonio, TX.
- Lukoff, B. (2013). Using interactive technology to make math relevant and accessible in the classroom. Harlan Miller Lecture delivered at Texas Woman's University, Denton, TX.
- Schell, J., Lukoff, B., & Mazur, E. (2013). Catalyzing Learner Engagement Using Cutting-Edge Classroom Response Systems in Higher Education. Invited paper presented at the 2013 International HETL Conference, Orlando, FL.
- Lukoff, B. (2012). The design and validation of an automatically-scored constructed-response item type for measuring graphical representation skill. Invited presentation (award session) given at the 2012 Annual Meeting of the National Council on Measurement in Education, Vancouver, BC, Canada.

PATENTS

- King, G., Lukoff, B. & Mazur, E. (2016). "Cross-Classroom and Cross-Institution Item Validation." United States of America Patent 9,508,266.
- King, G., Lukoff, B. & Mazur, E. (2014). "Participant Grouping for Enhanced Interactive Experience." United States of America Patent 8,914,373 B2.

UNIVERSITY SERVICE

- Member of Research and Educational Technology Committee, University of Texas at Austin, 2016-present
- Member of grant review committee for Longhorn Innovation Fund for Technology program, 2016-present

TECHNICAL SKILLS

- Software development in both academic and professional environments, including extensive work in Meteor, Ruby on Rails, node.js, Java, and Perl.
- Database design and management, including relational databases (MySQL and SQL Server) and specialized databases for analytics (Infobright and SQL Server Analysis Services).
- Statistical analysis, including extensive work with R, Stata, and SPSS.

AWARDS

- Certificate of Teaching Excellence from Harvard University
- Brenda Loyd Dissertation Award from the National Council on Measurement in Education
- Advanced Technologies for Learning/Education, Science, and Technology AERA Special Interest Group Best Student Paper Award
- Phi Beta Kappa

- Merrill Presidential Scholar, awarded to 1% of the graduating class at Cornell University
- Tomasic Prize for undergraduate honors thesis proposal at Cornell University
- Pauline and Irving Tanner Dean's Scholar at Cornell University