

# SAMUEL J. SEVERANCE

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## OBJECTIVE

Develop research and design techniques for organizing sustainable research-practice partnerships in order to bring innovative educational interventions grounded in research on learning and cognition to scale

## EDUCATION

- 2012-present    Doctoral Candidate, Educational Psychology & Learning Sciences with Cognitive Science (Combined PhD)  
University of Colorado Boulder, May 2016 projected graduation date  
Advisors: William Penuel, School of Education  
              Tamara Sumner, Institute of Cognitive Science
- 2005-2007     M.A.+ Instruction and Curriculum with Secondary Science Licensure  
University of Colorado Boulder
- 2002-2003     B.A. Fine Arts with emphasis in Studio Art  
University of Colorado Boulder
- 2000-2002     B.A. Neuroscience and Behavior  
University of California, Santa Cruz

## HONORS AND AWARDS

- Miramontes Scholar Fellowship (2012-2016)  
Chancellor's Award for Excellence in STEM Education (2014-15)  
Outstanding Master's Plus Graduate Award (2007)  
Hach Scientific Foundation Chemistry Teacher Scholarship (2005-2007)  
ETS Recognition of Excellence (PRAXIS General Science: Content Knowledge Exam) (2007)  
Invitational Exhibition: National School of Fine Arts, Mexico City (2003)  
Undergraduate Research Assistantship Grant (2002-2003)  
Highest Honors in Major from UCSC Biology department (2002)  
Kresge College Honors (2002)  
Campus Merit Scholarship (2000-2002)

## RESEARCH POSITIONS HELD

- 2014-Present    Research Coordinator / Graduate Research Assistant  
School of Education & Institute of Cognitive Science  
University of Colorado Boulder  
"Next Generation Science Exemplar Study"  
Funder: Center for STEM Learning
- 2012-Present    Research Coordinator / Graduate Research Assistant  
School of Education & Institute of Cognitive Science  
University of Colorado Boulder  
"INDP: Inquiry Hub"  
NSF Award #1147590
- 2013-2014     Professional Development Consultant  
CREATE for STEM Institute

Michigan State University  
 “NSF-RAPID: Model for Implementing the Next Generation of Science Standards”  
 NSF Award #1225661

- 2013 Graduate Research Assistant  
 School of Education  
 University of Colorado Boulder  
 “Synergies: Understanding and Connecting STEM Learning in the Community”  
 Funder: Noyce Foundation
- 2005-2007 Professional Research Assistant / Student Hourly Employee  
 Institute for Behavioral Genetics  
 University of Colorado Boulder
- 2002-2003 Research Assistant  
 Barth Neuroscience Lab  
 University of Colorado Boulder  
 Funder: Howard Hughes Medical Institute

### TEACHING POSITIONS HELD

- 2013 Co-Instructor / Graduate Teaching Assistant  
 Course: EDUC 4112 Adolescent Development and Educational Psychology  
 University of Colorado Boulder
- 2011-2012 Science Department Coordinator  
 Prairie Middle School, Aurora, CO  
 Cherry Creek Schools
- 2007-2012 Science Teacher  
 Prairie Middle School, Aurora, CO  
 Cherry Creek Schools
- 2007 Chemistry Teacher / Adjunct Faculty  
 New Vista High School, Boulder, CO  
 Boulder Valley School District

### MANUSCRIPTS IN REVISION

- Severance, S.,** Penuel, W.R., Sumner, T., & Leary, H. (in revision). Organizing for equitable co-design at the intersection of multiple activity systems. *Journal of the Learning Sciences*.
- Johnson, R., **Severance, S.,** Penuel, W.R., & Leary, H. (in revision). Teachers, Tasks, and Tensions: Lessons from a Research-Practice Partnership. *Journal of Mathematics Teacher Education*.

### REFEREED CONFERENCE PROCEEDINGS

- Severance, S.,** & Cohen, K.B. (2015). Measuring the readability of medical research journal abstracts. *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing*. Beijing, China: Association for Computational Linguistics.

- Severance, S.,** Leary, H., & Johnson, R. (2014). Tensions in a multi-tiered research-practice partnership. In J.L. Polman, E.A. Kyza, D.K. O'Neill, I. Tabak, W.R. Penuel, A.S. Jurow, K. O'Connor, T. Lee, & L. D'Amico (Eds.), *Learning and becoming in practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 2* (pp. 1171-1175). Boulder, CO: International Society of the Learning Sciences.
- Johnson, R., **Severance, S.,** Leary, H., & Miller, S. (2014). Mathematical tasks as boundary objects in design-based implementation research. In J.L. Polman, E.A. Kyza, D.K. O'Neill, I. Tabak, W.R. Penuel, A.S. Jurow, K. O'Connor, T. Lee, & L. D'Amico (Eds.), *Learning and becoming in practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 2* (pp. 1127-1131). Boulder, CO: International Society of the Learning Sciences.
- Cole, M., Engeström, Y., Sannino, A., Gutiérrez, K., Jurow, A.S., Packer, M., Penuel, W.R., Johnson, R., **Severance, S.,** Leary, H., & Miller, S. (2014). Toward an argumentative grammar for socio-cultural/cultural-historical activity approaches to design research. In J.L. Polman, E.A. Kyza, D.K. O'Neill, I. Tabak, W.R. Penuel, A.S. Jurow, K. O'Connor, T. Lee, & L. D'Amico (Eds.), *Learning and becoming in practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 3* (pp. 1254-1263). Boulder, CO: International Society of the Learning Sciences.
- Jurow, A.S., Kirshner, B., Torralba, J.A., Taraboulsi, S.E., Teeters, L., Guidalli, B., Griffin-EL, N., **Severance, S.,** Shea, M., & Dutilly, E. (2014). Theorizing learning in the context of social movements. In J.L. Polman, E.A. Kyza, D.K. O'Neill, I. Tabak, W.R. Penuel, A.S. Jurow, K. O'Connor, T. Lee, & L. D'Amico (Eds.), *Learning and becoming in practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 3* (pp. 1302-1307). Boulder, CO: International Society of the Learning Sciences.

#### REFEREED CONFERENCE PAPERS

- Severance, S.,** & Penuel, W.R. (2015, April). Curriculum co-design as a strategy for supporting equitable implementation of Next Generation Science Standards. Paper presented at the 2015 annual meeting of the National Association for Research in Science Teaching, Chicago, Illinois.
- Allen, C., **Severance, S.,** & Penuel, W.R. (2015, April). Leveraging professional development to design and enact NGSS-aligned materials in uncertain policy contexts. Paper presented at the 2015 annual meeting of the National Association for Research in Science Teaching, Chicago, Illinois.
- Severance, S.,** Penuel, W.R., & Leary, H. (2014, April). Negotiation of joint work in a research-practice partnership. Paper presented at the 2014 annual meeting of the American Educational Research Association, Philadelphia, Pennsylvania.

#### SELECTED PRESENTATIONS

- Penuel, W.R., **Severance, S.,** Lee, T., Kincaid, P., Miller, J., & Leary, H. (2015, March). iHub: A research-practice partnership to design new NGSS curriculum. Workshop at the National Science Education Leadership Association Professional Development Institute in conjunction with the 2015 NSTA Annual Conference on Science Education, Chicago, IL.
- Severance, S.,** Penuel, W.R., Manz, E., & Leary, H. (2014, September). Shifting teacher practice to the Next Generation Science Standards through professional development. Poster presented at the 6th Annual Symposium on STEM Education, Boulder, CO.

Leary, H., **Severance, S.**, Johnson, R., Penuel, W. R., Sumner, T., Devaul, H., Dibie, O., & Danesh, S. (2013, September). Customizing curriculum and digital resources for STEM educators. Poster presented at the 5th Annual Symposium on STEM Education, Boulder, CO.

**Severance, S.**, & Penuel, W. R. (2013, April). The Inquiry Hub as an exemplar of Design-Based Implementation Research. Presentation to the Educational Psychology and Learning Sciences Program, University of Colorado, Boulder, CO.

### **PROFESSIONAL SERVICE**

2014-Present Student Ambassador for the Educational Psychology & Learning Sciences Program  
University of Colorado Boulder  
School of Education

2013-Present Facilitation of Next Generation Science Standards professional development  
University of Colorado Boulder  
School of Education

2013-Present Institute of Cognitive Science Graduate Student Committee  
University of Colorado Boulder  
Representative for School of Education

2015-2016 PhD Student Committee Representative for Dean of School of Education search  
University of Colorado Boulder  
School of Education

2013-2014 ICLS 2014 Organizational & Administrative Support Committee  
University of Colorado Boulder  
School of Education

### **MEMBERSHIPS**

American Educational Research Association  
International Society of the Learning Sciences  
National Science Teachers Association  
National Association for Research in Science Teaching  
Phi Delta Kappa