

Carolyn J. Hushman

Academic Affiliation: Assistant Professor
Educational Psychology
University of New Mexico

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EDUCATION

- 2011 ***Doctor of Philosophy, Educational Psychology***
University of New Mexico, Albuquerque, NM
Dissertation: Examining the Influences of Instructional Strategy on Student Learning and Self-Efficacy in Elementary School Science.
- 2004 ***Masters of Arts, Earth Science***
University of Northern Colorado, Greeley, CO
Thesis: Examination of Laboratory and Virtual Activities on Students' Understanding of Earthquakes in High Enrollment Introductory Geology Classes
- 2004 ***Masters of Science, Sports Pedagogy emphasis Outdoor Education***
University of Northern Colorado, Greeley, CO
- 2000 ***Bachelor of Science, Education, emphasis Secondary Science Education***
University of Oklahoma, Norman, OK

PROFESSIONAL EXPERIENCES

- Present **Assistant Professor.** Educational Psychology, University New Mexico
- 2013-2015 **Postdoctoral Fellow.** Institute of Professional Development, University New Mexico
Coordinate evidence and data analysis required for NCATE accreditation and work with K-12 educators, district and state officials, as well as faculty in the College of Education to offer innovative professional development with Dr. Smith R. Frederick.
- 2015 **Instructor.** Educational Psychology, University of New Mexico
Design and deliver graduate and undergraduate courses in classroom assessment.
- 2012-2013 **Postdoctoral Fellow.** Educational Psychology, University of New Mexico
Assisted in the development and writing of two federal research grants involving the delivery of science courses in online environments and learning strategies for early childhood mathematics and science with Dr. Scott C. Marley.
- 2011 **Research Assistant.** College of Education, University of New Mexico
Conducted literature reviews involving teacher effectiveness, value-add modeling, and observational instruments for effective teaching for Dean Richard Howell.
- 2010-2014 **Instructor.** Earth and Planetary Science, University of New Mexico
Developed and instructed introductory courses in geology and environmental science for majors and non-majors.

- 2007-2011 **Teaching Assistant.** Educational Psychology, University of New Mexico
Designed and delivered courses for pre-service teachers involving human development, learning, motivation, assessment and classroom management.
- 2007-2010 **Research Assistant.** Educational Psychology, University of New Mexico
Facilitated the recruitment and participation of students in the Cognitive Lab, prepared and analyzed data, and wrote literature reviews for Dr. Roxana Moreno.
- 2008-2009 **Statistics Tutor.** Educational Psychology, University of New Mexico
Delivered course assistance to education graduate students enrolled in research methods, introductory to statistics, ANOVA, and regression courses.
- 2005-2007 **High School Science Teacher.** Creative Educational Preparatory institute #2
Designed and delivered courses in Earth Science, Physics, Chemistry, Biology, Health and Physical Education for grades 9-12 in Albuquerque charter high school.
- 2004-2005 **High School Science Teacher.** Greeley West High School
Designed and Delivered courses in Earth Science, Life Science, and Physical Science for grades 9-10 in Greeley, CO.
- 2002-2004 **Teaching Assistant.** Earth Science Department, University of Northern Colorado
Delivered lecture course assistance, taught laboratory sections, and coordinated other teaching assistants in geology labs, historical geology and astronomy labs for majors and non-majors.
- 2003, 2004 **Project Assistant.** University of Northern Colorado
Designed and edited activities in the first and second editions of *Discovery Geology: An Introductory Geology Laboratory Manual* for Dr. Michael Taber.

SCHOLARSHIP ACTIVITY

Grant Activity

Implementation of the New Mexico Three Tiered Teacher Licensure System

Smith Frederick & Carolyn Hushman, Co-Primary Investigators

Submitted to New Mexico Public Education Department, 6/2013. \$300,000. Funded.

Evidence for the Classroom: Investigating whether, when, and how student performance data informs instruction in Physical Education.

Carolyn J. Hushman & Glenn Hushman, Co-Primary Investigators

Submitted to the Spencer Foundation, 6/2013. \$276,421. Not Funded.

Scripted Scientific Discourse in Online Environments: The Development of an Evidence-Based Intervention to Enhance Student Collaboration in Gateway Science Courses.

Scott C. Marley, Primary Investigator; Carolyn J. Hushman, Co-Investigator

Submitted to the Institute for Educational Sciences, 6/2012. \$1,225,073. Not Funded.

Publications

- McCrudden, M., **Hushman, C. J.**, & Marley, S. C. (2014). Exploring the boundary conditions of the redundancy principle, *Journal of Experimental Education*, 82(4), 537-554.
- Jenny, S., Hushman, G., & **Hushman, C. J.** (2013). Pre-service teachers' perceptions of motion-based video gaming in physical education. *Journal of Technology and Teacher Education*, 9(1), 96-111.
- Hushman, G., Napper-Owen, G., & **Hushman, C. J.** (2013). Exploring the process of conceptual change of pre-service teachers in a physical education teacher education program, *Teacher Education Quarterly*, 17(4), 34-39.
- Moreno, R., Abercrombie, S., & **Hushman, C. J.** (2009). Using virtual classroom cases as thinking tools in teacher education. In I. Gibson et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2009* (pp. 2615-2622). Chesapeake, VA: Association for the Advancement of Computing in Education.
- Hushman, G., **Hushman, C. J.**, & Carbonneau, K. J. (In press). Measuring student achievement in physical education classes: One step to improving teacher effectiveness, *The Physical Educator*.
- Hushman, C. J.** & Marley, S. C. (In press). Guided instruction improves the scientific reasoning and self-efficacy of elementary students, *Journal of Education Research*.

Manuscripts in Review or Preparation

- Abercrombie, S. & **Hushman, C. J.** (In review). Promoting Learning with Case Design: How Novelty and Complexity Lead to Deeper Problem Identification when Using Case-Based Instruction. Manuscript to be submitted to *Journal of Learning Sciences*.
- Hushman, G. & **Hushman, C. J.** (In review). Value-added models in physical education, *Strategies*, Revise and Resubmitted 10/1/2014.
- Hushman, G., **Hushman, C. J.**, & Carbonneau, K. J. (In preparation). The impact of participation in a summer camp on children's attitudes toward physical activity, *Journal of Physical Activity*.
- Carbonneau, K.J. & **Hushman, C. J.** (In preparation). Cognitive and Attitudinal Consequences of Using Case-Based Supplemental Instruction in Teacher Education: The Role of Real and Virtual Peer Discussions. Manuscript to be submitted to *Journal of Teacher Education*.
- Hushman, C. J.**, Carbonneau, K. J., Selig, J. P., Marley, S. C., Korzekwa, A., & McCutchen, K. (In preparation). Time Varying Effects of Causal Diagrams on Learning Outcomes and Perceived Difficulty. Manuscript to be submitted to the *Journal of Educational Psychology*.

Conference Presentations

- Hushman, G. & **Hushman, C. J.** (2014, April). *Using Danielson's Framework to Evaluate Teacher Performance in Physical Education*. Paper to be presented at the 2014 annual meeting

of the American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD) St. Louis, MO.

Abercrombie, S., Carbonneau, K. J., & **Hushman, C. J.** (November, 2013). *Designing Case-based Instruction to Scaffold Pre-Service Teachers' Problem Solving Transfer*. Paper presented at the 2013 annual meeting of the Mid-Western Educational Research Association (MWERA), Evanston, IL.

Hushman, C. J., Carbonneau, K. J., Selig, J. P., Marley, S. C., Korzekwa, A., & McCutchen, K. (2013, April). *Time Varying Effects of Causal Diagrams on Learning Outcomes and Perceived Difficulty*. Paper presented at the 2013 annual meeting of the American Educational Research Association (AERA), San Francisco, CA.

Carbonneau, K. J., **Hushman, C. J.** & Moreno, R. (2013, April) *Attitudinal Consequences of Using Case-Based Supplemental Instruction in Teacher Education: The Role of Real and Virtual Peer Discussions*. Paper presented in round table at the 2013 annual meeting of the American Educational Research Association (AERA), San Francisco, CA.

Hushman, G. & **Hushman, C. J.** (2013, April). *Measuring Teacher Effectiveness in Physical Education*. Paper presented at the 2013 annual meeting of the American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD) Charlotte, NC.

Hushman, C. J., Marley, S. C., & McCrudden, M. (2012, April) *Does Providing Pictures and Words in a Causal Diagram Affect Text Learning?* Poster presented at the annual meeting of the American Educational Research Association (AERA), Vancouver, BC.

Carbonneau, K. J., **Hushman, C. J.**, & Moreno, R. (2012, April) *Cognitive Consequences of Using Case-Based Supplemental Instruction in Teacher Education: The Role of Real and Virtual Peer Discussions*. Paper presented in round table at the annual meeting of the American Educational Research Association (AERA), Vancouver, BC.

Hushman, C. J., Marley, S. C., & McCrudden, M. (2011, November) *Does the Format of an Adjunct Display Affect Student Perceptions?* Poster presented at the bi-annual meeting of the Southwest Consortium for Innovative Psychology in Education (SCIPE), Norman, OK.

Abercrombie, S. & **Hushman, C. J.** (2011, April). *The Influence of Example Structure on Motivation from Classroom Cases in Teacher Education*. Poster presented at the 2011 annual meeting of the American Educational Research Association (AERA), New Orleans, LA.

Abercrombie, S., **Hushman, C. J.**, & Moreno R., (2010, April). *The Influence of Example Structure on Application and Transfer when Learning about Problem Solving from Classroom Cases in Teacher Education*. Poster presented at the 2010 annual meeting of the American Educational Research Association (AERA), Denver, CO.

Moreno, R., Abercrombie, S., & **Hushman, C. J.** (2009, March). *Using virtual classroom cases as thinking tools in teacher education*. Paper presented at the 2009 Society for Information Technology and Teacher Education (SITE) International Conference, Charleston, SC.

Hushman, C. J., Marley, S. C., & McCrudden, M. (2009, April). *Does the Number of*

Relationships Depicted in an Adjunct Display affect Learning? Paper presented at the 2009 annual meeting of the American Educational Research Association (AERA), San Diego, CA.
Moreno, R., Marley, S. C., **Hushman, C. J.**, & Biazak, J. (2009, April). *The role of prior knowledge in learning from animations and imagination*. Paper presented at the 2009 annual meeting of the American Educational Research Association (AERA), San Diego, CA.

COURSES TAUGHT

Learning in the Classroom (education majors)
Human Development (education majors)
Classroom Assessment (education majors and graduate students)
How the Earth Works: Introduction to Geology (majors and non-majors)
Earth History (majors and non-majors)
The Blue Planet: Introduction to Environmental Science (majors and non-majors)

ACADEMIC SERVICE

2012-present Ad hoc Reviewer, *Learning and Instruction*
2012 Awards Committee Member for the Susan Deese-Roberts Teaching Assistant of the Year Award, University of New Mexico

HONORS AND AWARDS

2011 Recipient of the Susan Deese-Roberts Teaching Assistant of the Year Award
2009 Outstanding Paper Award, Society for Information Technology and Teacher Education
2009 Nominee for the Susan Deese-Roberts Teaching Assistant of the Year Award

MEMBERSHIPS

American Educational Research Association (Division C and K)
American Association for the Advancement of Science (Sections: Education, Geology and Geophysics; History and Philosophy of Science)

LICENSES

New Mexico Level 3A Instructional Leader PreK-12 Specialty Area: Science and Physical Education
New Mexico Level 3A Instructional Leader 7-12 Secondary: Science and Physical Education