

# ADRIENNE SMITH

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## EDUCATION

### **University of North Carolina at Chapel Hill**

PhD in Education, *May 2011*

Educational Psychology, Measurement, and Evaluation Program

Dissertation Title: Are Year-Round Schools a Viable Option for Improving Student Achievement, Combating Summer Learning Loss in Disadvantaged Youth, Controlling Expenses, and Reducing Teacher Burnout?

B.S. in Psychology, *May 2002*

Honors Thesis: Analysis of Social Network Accuracy

### **University of North Carolina at Greensboro**

M.Ed. in Curriculum and Instruction, *May 2004*

Concentration in Elementary Education

North Carolina Advanced M License for Elementary Education (K-6)

## RESEARCH

### PROFESSIONAL EXPERIENCE

#### **UNC-CH Department of Public Policy-Education Policy Initiative at Carolina, Chapel Hill, NC**

Director of Research and Evaluation & Senior Research Scientist (*2015-present*)

- Responsible for organizational leadership in terms of providing mentoring and support for new project leads, enhancing internal organizational procedures, and contributing to the strategic functional growth and sustainability of the organization
- Maintain responsibilities as a principal investigator

Research Associate (*2014-2015*)

- Responsible for creating mixed-method study designs and overseeing implementation as principal investigator for both large and small scale evaluation projects
- Develop instruments such as web-based surveys and interview protocols
- Conduct advanced quantitative analyses to examine program impacts
- Responsible for garnering additional funds and continued support for the organization

#### **Horizon Research, Inc., Chapel Hill, NC**

Research Associate (*2011-2014*)

- Developed research designs for large scale evaluation and research projects
- Conducted a variety of quantitative analyses using statistical packages such as SPSS, HLM, and Mplus to examine issues related to teacher content knowledge, pedagogical practices, and student performance
- Participated in qualitative analysis, including case study work
- Designed and validated instruments, including assessments to which item-response theory was applied
- Authored grant proposals, research reports, and journal articles

#### **Carolina Institute for Public Policy, Chapel Hill, NC**

Graduate Fellow (*2008-2011*)

- Conducted a variety of statistical analyses including multilevel modeling using Stata and SAS to examine teacher quality, effectiveness of professional development, and teacher retention
- Wrote grant proposals submitted to organizations such as NIH and IES
- Interviewed principals, administrators, and teachers to evaluate program effectiveness
- Managed large North Carolina education databases linking students to teachers to schools to find evidence of relationships among school, teacher, and student characteristics and student achievement

### North Carolina Public School Forum, Raleigh, NC

Consultant (2010)

- Developed and enacted multiple strategies for calculating the amount of deferred compensation earned by principals and superintendents based on teacher participation in professional development sessions sponsored by the Collaborative Project program

### Frank Porter Graham Child Development Institute, Chapel Hill, NC

Research Assistant (2006-2008)

- Participated in questionnaire design, distribution, cleaning, and coding for Bounce Learning Network Implementation Evaluation, a national child care program with centers serving economically disadvantaged communities and at-risk children
- Assisted in database management of child development measures and child care center assessments using SAS programming
- Edited manuscripts for publication on a variety of projects including an evaluation of Partners for a Healthy Baby, a home-visiting program for at-risk children, and a statewide initiative in Kentucky to improve the quality of child care facilities

### Hunt Institute for Educational Leadership and Policy, Chapel Hill, NC

Researcher (2007)

- Worked with a faculty member to gather data for the summer in order to compare accountability systems adopted by states after the passing of No Child Left Behind legislation

### UNC-CH School of Education, Chapel Hill, NC

Field Researcher (2007)

- Conducted principal interviews for expenditure analysis of 45 North Carolina high schools entitled, "High School Resource Allocation Project"
- Participated in 10-member group team meetings to analyze themes in qualitative data

## PUBLICATIONS

- Gordon, E.M., Heck, D.J., Fernandes, A., **Smith, A.A.**, Moffett, G.E. (July 2015). How students' record keeping during problem solving can support cognition and communication. *For the Learning of Mathematics*, 35(2), 22-25.
- Sabin, M., DuBow, W., & **Smith, A.** (2015). Computing summer camp to pave the way to rigorous and engaging computer science education in career and technical education centers. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 1564-1570). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Smith, P.S., **Smith, A.A.**, & Banilower, E.R. (2014). Situating Beliefs in the Theory of Planned Behavior: The Development of the Teacher Beliefs about Effective Science Teaching Questionnaire. In R. Evans, J. Luft, C. M. Czerniak, & C. Pea (Eds.), *The Role of Science Teachers' Beliefs in International Classrooms: From Teacher Actions to Student Learning*. The Netherlands: Sense Publishers.
- Henry, G.T., **Smith, A.A.**, Kershaw, D., & Zulli-Lowe, R.A. (2013). Formative evaluation: Estimating preliminary outcomes and testing rival explanations. *American Journal of Evaluation*, 34 (4), 465-485.
- Henry, G.T., Kershaw, D., Zulli-Lowe, R.A., & **Smith, A.A.** (2012). Incorporating teacher effectiveness into teacher preparation program evaluation. *Journal of Teacher Education*, 63(5), 335-355.
- Henry, G.T., Bastian, K.C., **Smith, A.A.** (2012). Scholarships to recruit the "best and brightest" into teaching: Who is recruited, where do they teach, how effective are they, and how long do they stay? *Educational Researcher*, 41 (3), 83-92.

## REPORTS

- **Smith, A.A.**, Comperature, A.N., Roy, M., Cain, J.M., & Marks, J.T. (2015). *East Carolina University Teacher Partnership Grant Evaluation Report Year 5*. Chapel Hill, NC: Education Policy Initiative at Carolina.
- **Smith, A.A.**, Marks, J.T., Comperature, A.N., & Davis, C.R. (2014). *College STAR: Phase II Evaluation Synthesis*. Chapel Hill, NC: Education Policy Initiative at Carolina.
- **Smith, A.A.**, Jaffri, A.Z., Banilower, E. R. (2014). *Standing Out in Their Field: A Comparison of the Knowles Science Teacher Foundation Fellows to Teachers Nationally*. Chapel Hill, NC: Horizon Research, Inc.
- **Smith, A.A.** (2013). *2012 National Survey of Science and Mathematics Education: Status of High School Mathematics*. Chapel Hill, NC: Horizon Research, Inc.
- **Smith, A.A.**, & Smith, P. S. (2013). *Accomplished Teachers of Mathematics and Science (ATOMS) Year Two Evaluation Report*. Chapel Hill, NC: Horizon Research, Inc.
- Heck, D. J. & **Smith, A.A.** (2013). *Final Report on Evaluation of Research Rigor: Evaluation of the Research and Evaluation on Education in Science and Engineering (REESE) Program*. Chapel Hill, NC: Horizon Research, Inc.
- Malzahn, K. A., **Smith, A.A.**, & Banilower, E. R. (2013). *Enhancing Mathematics Teaching and Learning: Year One Report*. Chapel Hill, NC: Horizon Research, Inc.
- **Smith, A.A.**, & Smith, P. S. (2012). *Accomplished Teachers of Mathematics and Science (ATOMS) Year One Evaluation Report*. Chapel Hill, NC: Horizon Research, Inc.
- Heck, D. J. & **Smith, A.A.** (2012). *Interim Report on Evaluation of Research Rigor: Evaluation of the REESE Program*. Chapel Hill, NC: Horizon Research, Inc.
- Nelson, M. M., **Smith, A.A.**, & Banilower, E. R. (2012). *Model of Research-based Education for Teachers. Year One Evaluation Report*. Chapel Hill, NC: Horizon Research, Inc.
- Heck, D. J., Weiss, I. R., & Pasley, J. D., with Fulk, W.O., **Smith, A. A.**, & Thomas, S. M. (2011). *A Priority Research Agenda for Understanding the Influence of the Common Core State Standards for Mathematics*. Chapel Hill, NC: Horizon Research, Inc.
- Thompson, C. L., Henry, G. T., Kershaw, D. C., **Smith, A. A.**, Zulli, R. A. (2011). *Evaluation of The Pilot Phase of The Collaborative Project: 2007-08 through 2009-10*. Chapel Hill, NC: Carolina Institute for Public Policy.
- Handa, S., Thompson, C. L., Marcus, J., & **Smith, A. A.** (2010). *The Effects of UNC Master of School Administration Programs on NC Public Schools, 2004-2008*. Chapel Hill, NC: Carolina Institute for Public Policy.
- Thompson, C. L., Henry, G. T., **Smith, A. A.**, Kershaw, D. C., Zulli, R. A. (2010). *Impact of the First Two Years of the Collaborative Project: An Interim Assessment*. Chapel Hill, NC: Carolina Institute for Public Policy.
- **Smith, A. A.**, Thompson, C. L., Purtell, K., Zulli, R. A. (2009). *Coverage of English Language Arts Content in DSSF Pilot Middle Schools and Other North Carolina Middle Schools*. Chapel Hill, NC: Carolina Institute for Public Policy.
- Thompson, C. L., Cunningham, E. K., **Smith, A. A.**, Phillips, J. C., Zulli, R. A. (2009). *The Collaborative Project: The First Two Years*. Chapel Hill, NC: Carolina Institute for Public Policy.

#### PRESENTATIONS AND CONFERENCE PAPERS

- National Council of Teachers of Mathematics Research Conference entitled: *Supporting Teacher Development in Early Algebra*, New Orleans, LA, April, 2014
- National Association for Research in Science Teaching entitled: *Investigating the Impacts of Educative Curriculum Materials: A Quantitative Perspective*, Pittsburgh, PA, March, 2014
- National Council of Supervisors of Mathematics entitled: *Supporting Teachers to Extend Arithmetic to Algebra*, Denver, CO, April, 2013
- National Council of Teachers of Mathematics Research Pre-session entitled: *Making the Most of Methodological Decisions*, Denver, CO, April, 2013

- National Education Finance Association entitled: *Intra-District Funding Inequities: The State's Role*, Tampa, FL, May 2011
- American Educational Research Association entitled: *Unpacking Effective Professional Development: Linking Professional Development to Student Achievement*. New Orleans, LA, April 2011
- Association for Education Finance and Policy entitled: *Tackling Teacher Preparation Challenges: The Effects of Teaching Fellows in North Carolina Schools*, Seattle, WA, March 2011
- North Carolina Association for Research in Education Presentation entitled: *Do Smart Peers Influence Achievement, Regardless of Course Selection?* virtual conference, March, 2009
- Southeastern Association for Educational Studies Conference Presentation entitled: *A History and Critique of School Evaluation*. Chapel Hill, NC, February, 2007

## TEACHING

### COLLEGIATE LEVEL

**North Carolina State University, Department of Leadership, Policy, and Adult and Higher Education**, Raleigh, NC  
Adjunct Professor (*Fall 2014*)

- Taught a graduate level course titled, "Applied Quantitative Methods in Education I"

**East Carolina University, Department of Educational Leadership**, Greenville, NC  
Co-Instructor (*Fall 2010-Spring 2011*)

- Taught a graduate level course titled, "Quantitative Research in Educational Leadership"
- Taught a graduate level course titled, "Advanced Research in Educational Leadership"

**UNC-Chapel Hill, Department of Public Policy**, Chapel Hill, NC

Guest Lecturer (*March 2015, November 2014, October 2010, September 2008*)

- Taught class on multiple regression and causal inference in course titled, "Research Design for Public Policy"
- Taught series of classes using school finance data in course titled, "Reforming America's High Schools"
- Taught class on school reform in course titled, "Educational Problems and Policy Solutions"

### OTHER TEACHING EXPERIENCE

**Willow Springs Elementary School**, Willow Springs, NC

Grade 3 Teacher (*2004-2006*)

- Implemented the NC Standard Course of Study in a Title 1 school outside of Raleigh, NC
- Actively participated in professional activities such as grade level meetings, collaboration meetings, and student support teams

Trainer, Wake County Schools (*February 2006-April 2006*)

- Conducted a six-week training session for 12 teachers on guided reading in grades three through five
- Presented information through lecturing and facilitating small group discussion

**Kernersville Elementary School**, Kernersville, NC

Grade 5 Substitute Teacher, Student Teacher (*January 2004-May 2004*)

- Assumed teaching responsibilities for reading and math for extended time period following student teaching, due to teacher illness

## RELATED EXPERIENCE

**National Training Network**, Greensboro, NC

Writer (*August 2003-November 2003*)

- Created word problems for fifth grade, incorporated into an item bank for use by a school system to review and assess specific goals and objectives
- Created mathematic problems of second and third grade levels based on the West Virginia standard course of study. Problems used as part of a criterion-referenced assessment

**University of North Carolina at Greensboro, Greensboro, NC**

Research Assistant (*August 2002-December 2003*)

- Assisted professors with research duties such as locating studies of interest, data entry, and transcription and performed administrative duties

**Child Care Services Association, Chapel Hill, NC**

Research Assistant (*January 2001-May 2001*)

- Distributed, cleaned, and coded data for a statewide child care survey of over 200 child care centers
- Called survey participants for clarification of responses

## SERVICE

### PROFESSIONAL ACTIVITIES

- Member of East Carolina University doctoral dissertation committees, 2011-present
- Reviewer for *American Educational Research Journal – Social and Institutional Analysis*, 2010-present
- Reviewer for *High School Journal*, 2008-present
- Reviewer for *American Evaluation Association 2015 Annual Meeting*, present
- Reviewer for *American Educational Research Association 2014 Annual Meeting*, present
- Committee member for undergraduate honors thesis (Is more school the answer: Expanded learning time in Massachusetts public schools? by Julia O'Halloran), 2010
- UNC-Chapel Hill Student Leadership Advisory Committee, 2008-2009
- UNC-Chapel Hill Pedestrian Safety Committee, 2006-2007