

J. McMaken

EDUCATION

- 2008 -Present** **University of Pennsylvania** Philadelphia, PA
Doctor of Philosophy candidate in Education
- 1998 - 2001** **University of Chicago** Chicago, IL
AB, Sociology and Psychology with honors.

POSITIONS

- 2005 - 2008** **Public/Private Ventures**
Philadelphia, PA
2007 - 2008 Assistant Research Associate
2005 - 2007 Research Assistant
- 2003 - 2005** **Nagano Commercial High School** Nagano, Japan
Assistant English Teacher
- 2001 - 2002** **Hancock/Hamline University Collaborative Magnet School** St. Paul, MN
Americorps Vista Tutor Coordinator
- 1999 - 2001** **Center for School Improvement, University of Chicago** Chicago, IL
Primary Literacy Tutor

RESEARCH EXPERIENCE

- 2009 - 2010** **Teacher Induction Study:** Investigation to understand which features of induction programs are most effective in (1) increasing teachers' math content and pedagogical content knowledge, (2) improving the math content of their instruction, and (3) fostering subsequent student learning. Assisted in data collection and classroom observation for middle school math teachers.
- 2008 -** **21st Century Research and Development Center on Cognition and Science Instruction:** A five-year randomized trial to test the effectiveness of modifying middle school science curricula to emphasize cognitive science principles on student achievement. Assisted in reviewing and updating power analysis calculations. Assisted in development process of customized unit tests. Assisted in developing fidelity of implementation measures.
- 2006 - 2008** **Cost of Out-of-School-Time Programs:** Largest undertaking to date to understand the cost of high quality out-of-school-time (OST) programs. Secondary study to explore the cost of developing and operating city-wide systems to support OST programming. Collected cost data for nearly 30 OST programs in New York City. Prepared all 112 cost surveys for data analysis and assisted in database creation and analysis planning. Conducted follow-up data analyses for program cost study and drafted methodology section for program cost report. Worked on the systems cost study in New York, Seattle and Boston.

- 2006 - 2008** **Higher Achievement Program Evaluation:** Assisted with survey development and administration for random assignment study to examine whether intensive, academically-focused after school programs can increase the achievement levels of participants. Conducted a pilot study of the youth survey with current Higher Achievement participants to measure timing and to find problems with the survey before the first administration. Managed the administration and follow-up of the mentor and summer teacher surveys. Supervised junior staff in planning for site visits and provided them with instruction on organizing and analyzing site visit data to create a feedback memo for the program.
- 2006 - 2007** **Academic Instruction After-School Evaluation:** multi-organization study of a U.S. Department of Education funded after-school initiative. Conducted site visits in first year of study to observe curriculum implementation and interview staff. Conducted additional interviews with staff in year two of the study to gather data on changes to program implementation.
- 2005 - 2007** **School-Based Mentoring Impact Study:** Managed study incentives, cost survey administration and descriptive analyses for the evaluation of Big Brothers Big Sisters (BBBS) School-Based Mentoring. Worked with 10 BBBS agencies to collect cost data on mentoring, analyzed cost data and drafted cost chapter for report. Reviewed and tabled outcome data with an eye for errors. Computed effect sizes and descriptive and bivariate analyses for impact study.
- 2000 - 2001** **Undergraduate Senior Thesis:** Individual research project to evaluate what structural elements of tutoring programs are associated with greater student gains in reading achievement. Developed tutor survey, administered survey to tutors at two schools in Chicago, and collected student achievement and attendance data from tutoring program. Used hierarchical linear modeling to analyze and interpret data collected.

PUBLICATIONS

- Barghaus, K. M., Bradlow, E. T., McMaken, J., & Rikoon, S. H. (In press). "Assessing and Measuring Workforce Readiness: A Discussion Toward the Development of a Universal and Valid Measure." In L.W. Perna (Ed.), *Preparing Today's students for tomorrow's jobs: The Policy, Practice, and Research Issues*. Philadelphia, PA: University of Pennsylvania Press.
- Porter, A. C. & McMaken, J.. (In press). "The Surveys of Enacted Curriculum as a Measure of Implementation." In *Approaches to Studying the Enacted Mathematics Curriculum*. Charlotte: Information Age Publishing, Center for the Study of Mathematics Curriculum.
- Porter, A. C., McMaken, J., Hwang, J., & Yang, R. (2011). Common Core Standards: The New US Intended Curriculum. *Education Researcher*, 40(3), 103-116.
- Porter, A. C., McMaken, J., Hwang, J., & Yang, R. (2011). Assessing the Common Core Standards: Opportunities for Improving Measures of Instruction. *Education Researcher*, 40(4), 186-188.
- Herrera, C., Grossman, J. B., Kauh, T. J., & McMaken, J. (2011). Mentoring in schools: An impact study of Big Brothers Big Sisters School-Based Mentoring. *Child Development*, 82(1), 346-361.
- Porter, A. C., McMaken, J. & Blank, R.. (2011). "Surveys of Enacted Curriculum and the Council of Chief State School Officers Collaborative." In *Connecting Research, Practice, & Policy in Mathematics Education*. Reston, VA: NCTM.

- Porter, A. C. & McMaken, J. (2009). "Making Connections Between Research and Practice." *Phi Delta Kappan*, 91(1), 61-64.
- Grossman, J. B., Lind, C., Hayes, C., McMaken, J. & Gersick, A. (2009). *The Cost of Quality Out-of-School-Time Programs*. Philadelphia, PA: Public/Private Ventures
- Bauldry, S., Djakovic, D. K., McClanahan, W. S., McMaken, J. & Kotloff, L. (2009). *Mentoring Formerly Incarcerated Adults: Insights from the Ready4Work Reentry Initiative*. Philadelphia, PA: Public/Private Ventures.
- Herrera, C., Kauh, T. J., Cooney, S. M., Grossman, J. B., & McMaken, J. (2008). *High School Students as Mentors: Findings From the Big Brothers Big Sisters School-Based Mentoring Impact Study*. Philadelphia, PA: Public/Private Ventures.
- Herrera, C., Grossman, J. B., Kauh, T. J., Feldman, A. F. & McMaken, J. with Jucovy, L. Z. (2007). *Making a Difference in Schools: The Big Brothers Big Sisters School-Based Mentoring Impact Study*, Philadelphia, PA: Public/Private Ventures.

PAPER PRESENTATIONS

- Barghaus, K.M., & McMaken, J. (2011, April). Applying Cognitive Science Principles to a Middle School Life Science Curriculum: Effects on Student Achievement. Paper presented at the 2011 Annual Meeting of the American Education Research Association, New Orleans, LA.
- Spencer, K., Desimone, L., & McMaken, J. (2011, April). Intervention Implementation and Classroom Instruction as a Mediating Variable in Middle School Science Achievement. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- McMaken, J., Desimone, L. M., & Cherg, S. (2010, May). *Challenges to Conceptualizing and Measuring Fidelity of Implementation in Education Intervention Research*. Paper presented at the 2010 annual meeting of the American Educational Research Association.
- Kauh, T., Herrera, C., & McMaken, J. (2008, May). *Differential Impacts of High School and Adult Mentors in School-Based Mentoring – Results from the National BBBSA School-Based Mentoring Impact Study*. Paper presented at the 2008 annual meeting of the Society for Prevention Research.
- Herrera, C., Kauh, T., & McMaken, J. (2007, February). *Big Brothers Big Sisters of America School-Based Mentoring Impact Study: Report*. Results presented at the 2007 SBM Research Site Meeting.

POSTER PRESENTATIONS

- McMaken, J., Hochberg, E., & Desimone, L. (2011, April). Is teacher knowledge related to instructional quality? Analysis of new middle school math teachers. Poster presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Hochberg, E. & McMaken, J. (2010, June). *The Association between Pedagogical Content Knowledge and Teaching Quality in a Sample of First-Year Teachers*. Poster presented at the 2010 IES Research Conference.
- McMaken, J., Herrera, C., & Kauh, T. (2008, May). *Program-Level Characteristics Associated with Match-Length and Match Quality Among School-Based Mentoring Relationships*. Poster presented at the 2008 annual meeting of the Society for Prevention Research.

Rhoades, B., Herrera, C., & McMaken, J. (2008, May). *Factors Predicting the Success and Retention of Academic Mentors in an Academic Enrichment Program for Middle-School Students*. Poster presented at the 2008 annual meeting of the Society for Prevention Research.