

# MICHAEL J. PUMA

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## Education

- ❑ Ph.D. (all but dissertation), Political Science, University of Maryland, College Park, MD, 1984.
- ❑ M.Sc., Public Policy, Averill Harriman College of Public Policy, State University of New York at Stony Brook, 1974.
- ❑ B.Sc., Engineering, Hofstra University, Hempstead, NY, 1969.

## Professional Background

- ❑ 2002-present, **President**, Chesapeake Research Associates, LLC, Annapolis, MD.
- ❑ 2004-2007, **Adjunct Professor**, Georgetown University Public Policy Institute
- ❑ 2010-present, **Affiliated Researcher**, Center for Education Data & Research (CEDR), University of Washington.
- ❑ 2003-2006, **President**, Chesapeake Research Institute, Inc., Annapolis, MD.
- ❑ 1998-2002, **Principal Research Associate**, Urban Institute, Washington, DC.
- ❑ 1992-1998, **Managing Vice President**, Education and Family Support Area, and International Education Area, Abt Associates, Inc., Bethesda, MD.
- ❑ 1985-1992, **Vice President**, Abt Associates, Inc., Bethesda, MD.
- ❑ 1980-1985, **Branch Chief**, Office of Analysis and Evaluation, Food and Nutrition Service, US Department of Agriculture.
- ❑ 1975-1980, **Principal Investigator**, Applied Management Sciences, Inc., Silver Spring, MD.
- ❑ 1974, **Student Intern**, National Child Nutrition Project, New Brunswick, New Jersey.
- ❑ 1972-1974, **Research/Teaching Assistant**, Averill Harriman College of Public Policy, State University of New York at Stony Brook.
- ❑ 1969-1972, **Engineer**, Grumman Aerospace Corporation, Bethpage, NY.

## Selected Research Projects

- ❑ *National Head Start Impact Study*, Principal Investigator for the first rigorous evaluation of Head Start using a nationally representative **randomized experiment** to study the longitudinal multi-dimensional development of about 4,500 children from 400 centers, following them from age 3 through the end of 3<sup>rd</sup> grade (with Westat, 2000-2011).
- ❑ *Integrated Evaluation of the Implementation and Outcomes of the American Recovery and Reinvestment Act (ARRA) of 2009*, Director of Analysis for this 5-year evaluation of the implementation of ARRA (the 2009 “stimulus” bill) and its impact on student outcomes (with Westat, 2010-2015).
- ❑ *Evaluation of Investing in Innovation (I3)*, Senior Team Leader for this 5-year project to both provide technical assistance to the local evaluators of the 2010 cohort of I3

grantees and to conduct a meta-analysis of the study results (with Abt Associates, 2010-2015).

- ❑ ***Impact of the Teacher Incentive Fund (TIF)***, Senior Researcher for the IES study of the impact of Performance-Based Teacher and Principal Incentive Programs on student achievement and educator effectiveness, mobility and recruitment. A major part of the study also involves providing technical assistance to state and district grantees on the design and implementation of the incentive programs (with Mathematica Policy Research -- MPR, 2010-2015).
- ❑ ***Evaluation of the Impact on Secondary Student Math Achievement of Highly Selective Routes to Alternative Teacher Certification***, Senior Researcher for the Institute for Education Sciences (IES) sponsored **experimental** evaluation of selective alternative teacher certification programs on the math achievement of middle and high school students (with MPR, 2008-2012)
- ❑ ***What Works Clearinghouse (WWC)***, on this IES project serve as Principal Investigator for the Teacher Professional Development Intervention Area, technical reviewer, and a member of the senior Statistical Issues team (with MPR, 2007-2011).
- ❑ ***Analytical and Technical Support Contract***, Senior Researcher to IES for the review and monitoring of research conducted by the 10 Regional Educational Laboratories (RELs), including review of RCTs and other research studies, and the development of methodological papers dealing with important educational research issues (with MPR, 2006-2011).
- ❑ ***DC School Choice Program***, Senior Researcher for the IES study to design and implement a longitudinal **experimental** evaluation of the DC school voucher program (with Westat, 2004-2010).
- ❑ ***Northwest Regional Educational Laboratory***, technical advisor for the design, implementation, and analysis of **two randomized studies**: a study of writing instruction for elementary school students, and a study of reading comprehension instruction for high school students (Education Northwest, 2006-2010).
- ❑ ***Design Options for an Evaluation to Turn Around Chronically Low Performing Schools***, identification of promising models for turning around chronically low performing schools and the development of **experimental** research design options (National Center for Education Research, with Abt Associates, 2008).
- ❑ ***Impact Evaluation of Communities in Schools (CIS)***, Co-Principal Investigator for an evaluation of CIS efforts to support the school engagement of children and young adults; the particular area of responsibility was the design of a **randomized** experiment (ICF-Caliber Associates, 2005-2008).
- ❑ ***Impact Evaluation Of Teacher Preparation Models***, Senior Researcher for the IES-sponsored experimental evaluation of alternative routes available to prospective teachers for entrance into the teaching profession (with MPR, 2003-07).
- ❑ ***Analysis of Teacher Compensation and Teacher Quality***, Senior Researcher for an analysis of various state and district policies that attempt to link teacher compensation to teacher quality (e.g., merit pay) (with MPR, 2005-06).
- ❑ ***State Improvement Grant (SIG) Evaluation***, Senior Researcher for a multi-year evaluation of the US Department of Education's state grant program intended to support systemic efforts to improve learning outcomes for children with disabilities (with Westat, 2000-06).

- ❑ ***National Educational Technology Trends Study***, Senior Researcher for a multi-year study examining the use of educational technology in American schools (with The Urban Institute, SRI, and the American Institutes for Research, 2002-05).
- ❑ ***Out-of-school Time and Academic Achievement***, Principal Investigator for an analysis of the relationship between student participation in out-of-school time activities and academic achievement in reading and math, and classroom behavior (2001-02).
- ❑ ***Evaluation of Educational Technology Policy and Practice for the 21<sup>st</sup> Century***, Project Director for the Urban Institute's component of a study of current policy and classroom practice related to the use of educational technology in American schools (1998-01).
- ❑ ***Strengthening Evaluation of Teacher Professional Development***, Project Director for a partnership with five school districts to evaluate high-quality teacher professional development linked to educational standards, including the development of an "Evaluation Handbook" for school and district staff (2000-01).
- ❑ ***Evaluating Systemic Education Reform***, Principal Investigator for the design of a longitudinal evaluation of standards-based school reform focusing on student standards and accountability systems (1998-99).
- ❑ ***Prospects: The Congressionally Mandated Study of Educational Growth and Opportunity***, Director Of Analysis for the landmark national longitudinal evaluation of Title I that followed the educational progress of over 30,000 public school children for up to four years and formed the basis for reform of federal legislation as part of the 1994 reauthorization of ESEA (1990-1997).
- ❑ ***Studies of Special Strategies for Educating Disadvantaged Children***, in collaboration with The Johns Hopkins University, evaluated the effectiveness of promising alternatives to traditional Title I programs that target disadvantaged children (1990-93).

### **Selected Publications**

- Perez-Johnson, I., K. Walters, & M.Puma (2011). *Evaluating ARRA Programs and Other Educational Reforms: A Guide for States*. Princeton, NJ: Mathematica Policy Research ([http://www.mathematica-mpr.com/publications/PDFs/education/ARRA\\_eval\\_guide.pdf](http://www.mathematica-mpr.com/publications/PDFs/education/ARRA_eval_guide.pdf)).
- Wolf, P., B. Gutmann, M. Puma, L. Rizzo, & N. Eissa (2011). *School Voucher in the Nation's Capital*. Berends, M., M. Cannata, & E. Goldring (Eds.), *School Choice and School Improvement*. Cambridge, MA: Harvard University Press.
- Puma, M., S. Bell, R. Cook, & C. Heid (2010). *Head Start Impact Study: Final Report*. US Department of Health and Human Service, Administration for Children and Families: Washington, DC. ([http://www.acf.hhs.gov/programs/opre/hs/impact\\_study/index.html](http://www.acf.hhs.gov/programs/opre/hs/impact_study/index.html))
- Puma, M., S. Bell, R. Olsen, & C. Price (2009). *Missing Data Issues in Randomized Control Trials: What to Do When Data Are Missing*. Special Methodological Report prepared for the Institute of Education Sciences, US Department of Education, Washington, DC. (<http://ies.ed.gov/ncee/pubs/20090049.asp>)