

Roddy Theobald

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Current Address:

10729 Bartlett Ave NE
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Work Address:

Center for Education Data & Research
3876 Bridge Way N., Suite 201
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EDUCATION AND RESEARCH EXPERIENCE:

- 2010-present **CENTER FOR EDUCATION DATA AND RESEARCH**, Research Assistant
Research advisor: Dan Goldhaber
- 2009-present **UNIVERSITY OF WASHINGTON**, PhD Candidate in Statistics
Departmental advisor: Thomas Richardson
- 2002-2006 **CARLETON COLLEGE**, B.A. in Mathematics, *Summa cum Laude*

TEACHING EXPERIENCE:

- Summer 2014 **UNIVERSITY OF WASHINGTON**, Instructor for STAT 395: Probability II
- Summer 2012 **UNIVERSITY OF WASHINGTON**, Instructor for STAT 220: Basic Statistics
- Fall 2009 **UNIVERSITY OF WASHINGTON**, Teaching Assistant for STAT 221: Statistical Concepts and Methods for the Social Sciences (Instructor: June Morita)
- 2006-2009 **OAKLAND (CA) UNIFIED SCHOOL DISTRICT**, 6th and 7th grade math teacher at Westlake Middle School, Teach For America corps member

EXTERNAL GRANT FUNDING:

- 2014-2015 **NATIONAL SCIENCE FOUNDATION**, "Assessing the Use of Licensure Tests as an Indicator of Teachers' Science and Mathematics Content Knowledge for Teaching," \$135,054, co-PI (PI: Dan Goldhaber)
- 2013-2015 **BILL AND MELINDA GATES FOUNDATION**, "Does the Match Matter? Exploring How Student Teaching Experiences Affect Teacher Career Paths and Effectiveness," \$149,983, co-PI (PI: Dan Goldhaber)

AWARDS AND FELLOWSHIPS:

- Fall 2013 **Z.W. BIRNBAUM AWARD FOR OUTSTANDING GENERAL EXAM**, University of Washington Department of Statistics
- Fall 2010 **DOROTHY M. GILFORD PRIZE FOR EXCELLENCE IN TEACHING BY A GRADUATE STUDENT**, University of Washington Department of Statistics
- 2009-2010 **VIGRE FELLOWSHIP**, University of Washington Department of Statistics and the National Science Foundation

PUBLICATIONS:

Goldhaber, D., Krieg, J., and **Theobald, R.** "Knocking on the Door to the Teaching Profession? Modeling the Entry of Prospective Teachers into the Workforce." *Economics of Education Review*, in press.

Goldhaber, D., Krieg, J., **Theobald, R.**, and Brown, N. "The STEM and Special Education Teacher Pipelines: Why Don't We See Better Alignment Between Supply and Demand?" *Phi Delta Kappan*, in press.

Goldhaber, D., Lavery, L., and **Theobald, R.** "Uneven Playing Field? Assessing the Teacher Quality Gap Between Advantaged and Disadvantaged Students." *Educational Researcher*, in press.

Goldhaber, D., Lavery, L., and **Theobald, R.** (2014) "My End of the Bargain: Are There Cross-District Effects in Teacher Contract Provisions?" *Industrial and Labor Relations Review* 67(4), pp. 1274-1305.

Theobald, R. and Freeman, S. (2014) "Is it the Intervention or the Students? Using Linear Regression to Control for Student Characteristics in Undergraduate STEM Education Research." *CBE—Life Sciences Education* 13, pp. 41-48.

Brownell, S., Wenderoth, M.P., **Theobald, R.**, Okoroafor, O., Koval, M., Freeman, S., Walcher, C., Crowe, A. (2014). "How Students Think about Experimental Design: Novel Conceptions Revealed by in-Class Activities." *Bioscience* 64(2), pp. 125-137.

Goldhaber, D. and **Theobald, R.** (2013). "Managing the Teacher Workforce in Austere Times: The Determinants and Implications of Teacher Layoffs." *Education Finance and Policy* 8(4), pp. 494–527.

Goldhaber, D., Liddle, S., and **Theobald, R.** (2013). "The Gateway to the Profession: Evaluating Teacher Preparation Programs Based on Student Achievement." *Economics of Education Review* 34, pp. 29-44.

Goldhaber, D., Lavery, L., **Theobald, R.**, D'Entremont, D., and Fang, Y. (2013). "Teacher Collective Bargaining in Washington State: Assessing the Internal Validity of Partial Independence Item Response Measures of Contract Restrictiveness." *SAGE Open*, April-June 2013, pp. 1-16.

Goldhaber, D., Liddle, S., **Theobald, R.**, and Walch, J. (2012). "Teacher Effectiveness and the Achievement of Washington's Students in Mathematics." *WERA Educational Journal* 4(2), pp. 6-12.

Goldhaber, D. and **Theobald, R.** (2012). "Do Different Value Added Models Tell Us the Same Things?" *Carnegie Knowledge Network*, October 2012.

Goldhaber, D. and **Theobald, R.** (2011). "Managing the Teacher Workforce: The Consequences of "Last In, First Out" Personnel Policies." *Education Next* 11(4), Fall 2011, pp. 78-83.

WORKING AND CONFERENCE PAPERS:

Theobald, R. (2014) "Response to Intervention? Estimating the Causal Effect of Special Education Services on Student Performance." AERA 2014 Conference Paper.

PAPERS IN PREP OR REVIEW:

- Freeman, S., **Theobald, R.**, Crowe, A., and Wenderoth, M. "Likes Attract: Homophily in a College Biology Classroom."
- Goldhaber, D., Krieg, J., and **Theobald, R.** "Does the Match Matter? Exploring How Student Teaching Experiences Affect Teacher Career Paths and Effectiveness."
- Goldhaber, D., Lavery, L., and **Theobald, R.** "Inconvenient Truth? Do CBAs Help Explain the Inequitable Distribution of Teachers Within School Districts?"
- Theobald, R.** and Richardson, T. "Lord's Paradox and Targeted Interventions."
- Theobald, R.** and Richardson, T. "Single World Object Oriented Plates (SWOOPs): A Graphical Framework for Causal Reasoning in Multivariate, Multilevel, and Longitudinal Settings."

PUBLISHED EDITORIALS:

- Goldhaber, D., Lavery, L., and **Theobald, R.** (2014). "Closing the Teacher Quality Gap." *Seattle Times*, June 9, 2014.
- Goldhaber, D., Lavery, L., and **Theobald, R.** (2014). "Getting Serious About the Teacher Quality Gap." *Tacoma News Tribune*, March 26, 2014.
- Goldhaber, D. and **Theobald, R.** (2011). "Seniority-Based Layoffs Hurt Schools, Students." *Tacoma News Tribune*, July 4, 2011.

CONFERENCE PRESENTATIONS AND WORKSHOPS:

Presentations by co-authors omitted

- 2014 **Society for the Advancement of Biology Education Research National Meeting**, Minneapolis, MN. "Making Sense of Regressions with Student Outcome Data." (Workshop co-presenter: S. Eddy).
- 2014 **American Education Research Association Annual Meeting**, Philadelphia, PA. "Response to Intervention? Estimating the Causal Effect of Special Education Services on Student Performance."
- 2014 **American Education Research Association Annual Meeting**, Philadelphia, PA. "My End of the Bargain: Are There Cross-District Effects in Teacher Contract Provisions?" (Co-authors: D. Goldhaber and L. Lavery)
- 2014 **Society for Research on Educational Effectiveness Spring Conference**, Washington, DC. "Evaluating Non-Randomized Educational Interventions: A Graphical Discussion." (Co-author: T. Richardson).
- 2013 **Northwest Math Conference**, Bellevue, WA. "Pictures, Measures, and Models of Association in Data." (Workshop co-presenter: J. Morita).
- 2012 **Association for Education Finance and Policy Conference**, Boston, MA. "My End of the Bargain: Exploring the Influence of Spatial Relationships on the Provisions in Collective Bargaining Agreements." (Co-authors: D. Goldhaber and L. Lavery).

- 2011 **Association for Education Finance and Policy Conference**, Seattle, WA. “Managing the Teacher Workforce in Austere Times: The Determinants and Implications of Teacher Layoffs.” (Co-author: D. Goldhaber).

CAMPUS PRESENTATIONS:

- 2014 **Hamilton College, Public Policy 382: Topics in Public Policy, Education Reform.** “Education Policy Levers in Washington State: An Overview.” Invited by Professor Gary Wyckoff.
- 2014 **University of Washington, Biostatistics Causal Inference Reading Group.** “Lord’s Paradox and Targeted Interventions.” Invited by Professor Andrew Zhou.
- 2013 **University of Washington, Biostatistics Causal Inference Reading Group.** “Instrumental Variables Estimation.” Invited by Professor Andrew Zhou.
- 2013 **University of Washington, Social Welfare 590: Advanced Social Research Methods.** “Evaluating Non-Randomized Interventions.” Invited by Professor Elena Erosheva.
- 2013 **University of Washington, Department of Statistics General Exam.** “Evaluating Non-Randomized Educational Interventions: The Case of Special Education.”
- 2013 **University of Washington, Statistics 342: Introduction to Probability and Statistical Inference.** “Estimating Teacher Quality.” Invited by Professor June Morita.

CONSULTING EXPERIENCE:

- Summer 2014 **BrightBytes Lab, Inc.**, External consultant for R code analysis
- 2012-2014 **University of Washington Biology Education Research Group**, Student data analyst
- Spring 2012 **University of Washington Statistical Consulting Services**, Graduate student consultant

EXTERNAL REVIEWER FOR:

CBE—Life Sciences Education
Economics of Education Review
Education Finance and Policy
Educational Evaluation and Policy Analysis
Educational Researcher
Journal of Scientific Research and Reports
SAGE Open