Wendy Chan

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APPOINTMENTS

2016 - Present Assistant Professor of Education, Graduate School of Education, University of Pennsylvania

EDUCATION

2011 – 2016	Ph.D., Statistics, Northwestern University
	Dissertation: Extensions to the Generalizability of Experiments in the Social Sciences
	Dissertation Committee: Larry V. Hedges, Bruce D. Spencer, and Hongmei Jiang
2008 – 2010	M.Ed., Mathematics Education, Lehman College, City University of New York
	Thesis: Conceptual Challenges in the Transition to Algebra for Middle School Students
	Thesis Advisor: Pauline Mattis, Ed.D.
2004 – 2008	B.A., Economics and Mathematics, Barnard College, Columbia University (<i>magna cum laude</i>) Minor in Physics
2006	Shanghai Jiaotong University, Shanghai, People's Republic of China
	Semester abroad in Shanghai Business Internship Program of Columbia University

FELLOWSHIPS, AWARDS AND HONORS

2015 – 2016	Northwestern University Fellowship
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- 2004 2008 British Petroleum Scholarship, Barnard College
- 2004 2008 Dean's List, Barnard College

RESEARCH FUNDING

- 2017 2018 **Principal Investigator**, Assessing the Role of Covariates and Matching in Improving Bounds for Generalization and in Understanding Generalizations Over Time. Spencer Foundation. Funding: \$36,033.50.
- 2017 2018 **Principal Investigator**, Assessing the Role of Administrative Data in Improving Generalizations from Experimental Studies. University Research Foundation, University of Pennsylvania. Funding: \$43,495.00.

PEER REVIEWED PUBLICATIONS

(† indicates co-first author)

- 1. **Chan, W.** (2018+). The Relation Among Design Parameters for Statistical Power Between Continuous and Binomial Outcomes in Cluster Randomized Trials. *Psychological Methods*.
- 2. Chan, W. (2018). Applications of Small Area Estimation to Generalization with Subclassification by Propensity Scores. *Journal of Educational and Behavioral Statistics*, 43(2), 182 224.
- 3. Chan, W. (2017). Partially Identified Treatment Effects for Generalizability. *Journal of Research on Educational Effectiveness*, *10*(3), 646 669.

- 4. Tipton, E., Hallberg, K., Hedges, L.V., and **Chan, W.** (2016). Implications of small samples for generalization: Adjustments and rules of thumb. *Evaluation Review* (Special Issue: External Validity 2), *41*(5), 472 505.
- Kang, J., Chan,W.[†], Kim, M.O., and Steiner, P.M. (2016). Practice of Causal Inference with the Propensity of Being Zero or One: Assessing the Effect of Arbitrary Cutoffs of Propensity Scores. *Communications for Statistical Applications and Methods*, 23(1), 1–20.

UNDER REVIEW

Chan, W. Small Sample Adjustments for the Variance of Impact Parameters in Cluster Randomized Trials with Binary Outcomes

Chan, W. Bounding Approaches for Generalization. (Under Revision)

WORKING PAPERS

Hedges, L.V. and Chan, W. The Impact of Downstream Clustering in Longitudinal Studies.

PRESENTATIONS

<u>2018</u>

Chan, W. Bounding Approaches for Generalization. Paper presented at the Society for Research in Educational Effectiveness. Washington, D.C.

Chan, W. Monotonicity Assumptions in Deriving Bounds for Generalization. Paper to be presented at the American Educational Research Association Annual Meeting. New York, NY.

Chan, W. Presenting Quantitative Results to Interdisciplinary Audiences. Invited talk at the Interdisciplinary Studies in Human Development Lunch Meeting, Graduate School of Education, University of Pennsylvania. Philadelphia, PA.

$\underline{2017}$

Chan, W. Bounding Approaches for Generalization. Paper presented at the Association for Public Policy Analysis & Management (APPAM) Conference. Chicago, IL.

Chan, W. The Relation Between Power for Continuous and Binomial Outcomes in Cluster Randomized Trials. Poster presented at the Joint Statistical Meetings. Baltimore, MD.

Chan, W. Bounds for Treatment Effects with Applications to Generalizability. Invited paper presented at the International Chinese Statistical Association Applied Statistics Symposium. Chicago, IL.

Chan, W. Small Area Estimates of the Average Treatment Effect with Applications to Generalizability. Paper presented at the American Educational Research Association Annual Meeting. San Antonio, TX.

Chan, W. Applications of Small Area Estimation to the Generalizability of Experiments with Small Sample Sizes. Paper presented at the Society for Research in Educational Effectiveness. Washington, D.C.

<u>2016</u>

Chan, W. Partial Identification of Treatment Effects: Applications to Generalizability. Paper presented at the Spring Meeting of the Society for Research on Educational Effectiveness. Washington, DC.

$\underline{2015}$

Tipton, E., Hallberg, K., Hedges, L.V., & **Chan, W.** Implications of Small Samples for Generalization: Adjustments and Rules of Thumb. Paper presented at the Spring Meeting of the Society for Research on Educational Effectiveness. Washington, DC.

$\underline{2014}$

Kang, J. & **Chan**, W. Practice of Causal Inference with the Propensity of Being Zero or One. Paper presented at the Joint International Chinese Statistical Association-Korean International Statistical Society Applied Statistics Symposium. Portland, OR.

PROFESSIONAL EXPERIENCE

2012 – 2016	Graduate Research Assistant, Institute for Policy Research, Northwestern University
2014 – 2016	Statistical Consultant, Feinberg School of Medicine, Northwestern University
2005 - 2008	Research Assistant for Professor Alan Dye, Department of Economics, Barnard College
2005 – 2006	Research Assistant, Department of Psychology, Barnard College

TEACHING (* courses I proposed)

University of Pennsylvania

2017 - 2018	Methods and Designs for Educational Research (ED 545) *
Spring 2017	Advanced Topics in Impact Evaluation (ED 871; Co-Instructor with Robert Boruch)
2016 – 2018	Introductory Statistics for Education Research (ED 667)

Northwestern University

Fall 2015	Introduction to Statistics (STAT 202), Instructor
Spring 2015	Hierarchical Linear Models (STAT 356), Teaching Assistant
2014 - 2015	Introduction to Statistics (STAT 202), Teaching Assistant
Winter 2014	Probability and Statistics (STAT 383), Teaching Assistant
Fall 2014	Human Rights Statistics (STAT 370), Guest Lecturer and Teaching Assistant
Fall 2013	Survey Sampling (STAT 325), Guest Lecturer
Fall 2013	Introductory Statistics for the Social Sciences (STAT 210), Teaching Assistant

Summer Institute in Randomized Trials for Established Researchers, Northwestern University

Summer 2013, 2014 Consultant/Group Facilitator for break-out groups

Teach for America

2008 – 2011 Teacher of Arithmetic and Algebra

Columbia University

Spring 2007 Introduction to Statistics (STAT W1111), Teaching Assistant

PROFESSIONAL SERVICE

University

2017 – Present	<i>Committee Member</i> , Executive Committee, Graduate School of Education, University of Pennsylvania
2017 – Present	Faculty Representative, Fellowship Committee, University of Pennsylvania
2017 – Present	<i>Mentor</i> , Quantitative Methods Reading Group, Graduate School of Education, University of Pennsylvania
2017 – Present	<i>Member</i> , Doctoral Seminar Planning Committee, Graduate School of Education, University of Pennsylvania
2015 – 2016	Colloquium Organizer, Institute for Policy Research Q-Center, Northwestern University
2014 - 2015	Colloquium Organizer, Graduate Women Across Northwestern, Northwestern University

Conference2018Session Chair, Society for Research on Educational Effectiveness Spring Meeting2017 - 2018Proposal Reviewer, American Educational Research Association,
Quantitative Methods and Statistical Theory (Division D) and
Research, Evaluation and Assessment in Schools (Division H)2017 - 2018Proposal Reviewer, Society for Research on Educational Effectiveness Spring Meeting
Discussant, Association for Public Policy Analysis & Management (APPAM) ConferenceReferee
2018Grant Reviewer, Institute of Education Sciences, Social and Behavioral Education Research
Scientific Panel

- 2016 *Proposal Reviewer*, Robert Wood Johnson Foundation
- Ad hoc Campbell Collaboration Systematic Reviews, Journal of Research on Educational Effectiveness, Evaluation Review, Action in Teacher Education

PROFESSIONAL MEMBERSHIPS

Society for Research on Educational Effectiveness (SREE) Campbell Collaboration Methods Group American Educational Research Association (AERA) American Statistical Association (ASA) Association for Public Policy Analysis & Management (APPAM) International Chinese Statistical Association (ICSA)