

Tyler W. Watts

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EDUCATION

- 2012~present Doctoral program in Education
University of California, Irvine (will complete degree in spring of 2017)
- 2015 M.A., Education
University of California, Irvine
- 2011 B.A., double major in Psychology and Religious Studies with high honors
University of Texas

PEER-REVIEWED PUBLICATIONS

Watts, T. W., Duncan, G. J., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E. (in press). What is the long-run impact of learning mathematics during preschool? *Child Development*.

Watts, T. W., Clements, D. H., Sarama, J., Wolfe, C. B., Spitler, M. E., & Bailey, D. H. (in press). Does early mathematics intervention make lower-achieving children learn like higher-achieving children? *Journal of Research on Educational Effectiveness*.

Schenke, K., Nguyen, T., **Watts, T.W.,** Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E. (in press). Differential effects of the classroom on African American and non-African American's mathematics achievement. *Journal of Educational Psychology*.

Engel, M., Claessens, A., & **Watts, T. W.,** Stone, S. (in press). Socioeconomic inequality at school entry: A cross-cohort comparison of families and schools. *Children and Youth Services Review*.

Engel, M., Claessens, A., **Watts, T. W.,** & Farkas, G (2016). Mathematics content coverage and student learning in kindergarten. *Educational Researcher*, 45(5), 293-300.

Nguyen, T., **Watts, T. W.,** Duncan, G. J., Clements, D. H., Sarama, J. S., Wolfe, C., & Spitler, M. E. (2016). Which preschool mathematics competencies are most predictive of fifth grade achievement? *Early Childhood Research Quarterly*, 36, 550-560.

Watts, T. W., Duncan, G. J., Chen, M., Claessens, A., Davis-Kean, P. E., Duckworth, K., Engel, M., Siegler, R. S., Susperreguy, M. I. (2015). The role of mediators in the development of

longitudinal mathematics achievement associations. *Child Development*, 86(6), 1892-1907. doi: 10.1111/cdev.12416

Watts, T. W., Duncan, G. J., Siegler, R. S., & Davis-Kean, P. E. (2014). What's past is prologue: Relations between early mathematics knowledge and high school achievement. *Educational Researcher*, 43(7), 352-360. doi: 10.3102/0013189X14553660

Bailey, D. H., **Watts, T. W.**, Littlefield, A. K., & Geary, D. C. (2014). State and trait effects on individual differences in children's mathematical development. *Psychological Science*, 25(11), 2017-2026. doi: 10.1177/0956797614547539

Harte, C. B., **Watts, T. W.**, & Meston, C. M. (2013). Predictors of 1-, 6-and 12-month smoking cessation among a community-recruited sample of adult smokers in the United States. *Journal of Substance Use*, 18(5), 405-416.

INVITED CHAPTERS

Vandell, D.L., Larson, R., Mahoney, J.L., & **Watts, T.W.** (2015). Children's Organized Activities. In R.M. Lerner (Series Ed.), M.H. Bornstein & T. Leventhal (Vol. Eds.), *Handbook of child psychology: Vol. 4. Ecological Settings and processes in developmental systems* (7th ed.). New York: Wiley.

Vandell, D.L., & **Watts, T.W.** (forthcoming). Self care. In R.M. Lerner (Series Ed.), M.H. Bornstein (Vol. Eds.), *The SAGE encyclopedia of lifespan human development*. Thousand Oaks, CA: SAGE.

MANUSCRIPTS IN PROGRESS

Watts, T.W., Duncan, G. J., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E. *Early mathematical competencies and long-run achievement: Which kindergarten domains predict later achievement?* Revise and resubmit at Journal of Research for Mathematics Education.

Jenkins, J. M., **Watts, T. W.**, Magnuson, K., Gershoff, E., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E. *Preventing preschool fadeout through instructional intervention in kindergarten and first grade.* Revise and resubmit at Educational Evaluation and Policy Analysis.

Bailey, D. H., Duncan, G., **Watts, T. W.**, Clements, D. H., & Sarama, J. *Risky Business: Correlation and Causation in Longitudinal Studies of Skill Development.* Manuscript under review at American Psychologist.

Watts, T. W. *Do gains in high school academic skills affect adult earnings?* Manuscript in progress.

Watts, T. W., Connor, C. *Examining the effects of 2 years of individualized instruction in mathematics.* Manuscript in progress.

CONFERENCE PRESENTATIONS

Bailey, D. H., Duncan, G., **Watts, T. W.**, Clements, D. H., & Sarama, J. (September, 2016). *Risky Business: Correlation and Causation in Longitudinal Studies of Skill Development*. Invited talk, Conference of the International Mind, Behavior, and Education Society, Toronto, Canada.

Watts, T. W., Clements, D. H., Sarama, J., Wolfe, C. B., Spitler, M. E., Bailey, D. (April, 2016). *Effects of an early mathematics intervention on stable and time-varying components of mathematics achievement*. Paper presented at the 2016 annual meeting for the American Educational Research Association.

Watts, T. W., Duncan, G. J., Clements, D. H., Sarama, J. (November, 2016). *What is the long-run impact of learning math during preschool?*. Paper presented at the 2015 annual meeting for the Association for Public Policy Analysis and Management.

Engel, M., Claessens, A., **Watts, T. W.**, & Farkas, G. (April, 2015). *The misalignment of kindergarten mathematics content*. Paper presented at the 2015 annual meeting for the American Educational Research Association.

Engel, M., Claessens, A., & **Watts, T. W.** (March, 2015). *Rising inequality at school entry: A cross cohort comparison*. Paper presented at the 2015 annual meeting for the American Educational Research Association.

Engel, M., Claessens, A., **Watts, T. W.**, & Farkas, G. (March, 2015). *The misalignment of kindergarten mathematics content*. Paper presented at the 2015 bi-annual meeting for the Society for Research in Child Development.

Engel, M., Claessens, A., & **Watts, T. W.** (March, 2015). *Rising inequality at school entry: A cross cohort comparison*. Paper presented at the 2015 bi-annual meeting for the Society for Research in Child Development.

Watts, T. W., Duncan, G. J., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E.. (March, 2015). *Preschool growth in mathematics and long-run achievement: An instrumental variables approach*. Paper presented at the 2015 annual meeting for the Society for Research on Educational Effectiveness.

Watts, T. W., Nguyen, T., Schenke, K., Duncan, G. J., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E.. (March, 2015). *Great expectations: The effect of teacher expectations on the mathematics achievement of African American students in a preschool mathematics intervention*. Paper presented at the 2015 annual meeting for the Society for Research on Educational Effectiveness.

Jenkins, J. M., **Watts, T. W.**, Magnuson, K., Gershoff, E., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E.. (March, 2015). *Preventing preschool fadeout through instructional intervention in kindergarten and first grade*. Paper presented at the 2015 annual meeting for the Society for Research on Educational Effectiveness.

Engel, M., Claessens, A., **Watts, T. W.**, & Farkas, G. (November, 2014). *The misalignment of kindergarten mathematics content*. Paper presented at the 2014 annual meeting for the Association for Public Policy Analysis and Management.

Engel, M., Claessens, A., & **Watts, T. W.** (November, 2014). *Rising inequality at school entry: A cross cohort comparison*. Paper presented at the 2014 annual meeting for the Association for Public Policy Analysis and Management.

Watts, T.W., Duncan, G. J. *The Groove of Growth: How Early Gains in Math Ability Influence Adolescent Achievement*. (March, 2014). Poster presented at the 2014 Spring meeting for the Society for Research on Educational Effectiveness.

Watts, T.W., Spanier, M., Duncan, G.J. *Predicting adolescent math achievement with preschool math skills*. (April, 2014). Paper presented at the 2014 annual meeting for the American Educational Research Association.

Duncan, G.J., Chen, M., Claessens, A., Davis-Kean, P.E., Duckworth, K., Engel, M., Siegler, R., Susperreguy, M.I., **Watts, T.W.**, (2013, April). *Self-concepts, school placements and executive functioning as mediators of links between early and later school achievement*. Paper presented at the biannual meeting of the Society for Research in Child Development. Seattle, WA.

Meston, C.M., **Watts, T.W.**, Stephenson, K.R, Lorenz, T.A., Pujols, Y.K., Pulverman, C.A., (2013, January). *Mediators of the long term impact of childhood sexual abuse on sexual function: Stigmatization, powerlessness, and traumatic sexualization*. Poster session presented at the annual meeting of the the International Society for the Study of Women's Sexual Health, San Diego, CA.

Watts, T.W., Harte, C.B., & Meston, C.M (2010, May). *Predictors of relapse following an 8-week smoking cessation intervention program*. Poster session presented at the annual meeting of the Association for Psychological Science, Boston, MA.

Harte, C.B., Perlman, **Watts, T.W.**, H., Bentkowski, O.Z., Whitaker, A., & Meston, C.M (2010, May). *Quitting smoking improves sexual health in men*. Poster session presented at the annual meeting of the Association for Psychological Science, Boston, MA.

Harte, C.B., **Watts, T.W.**, Perlman, H., Bentkowski, O.Z., Whitaker, A., & Meston, C.M (2010, April). *Effects of smoking cessation on sexual health in men*. Poster session presented at the annual meeting of the Society for Behavioral Medicine, Seattle, WA.

RESEARCH POSITIONS

NSF and IES Funded TRIAD Evaluation Study
University of Denver

Supervisors: Doug Clements

2014~ present Title: Researcher Consultant

Duties: Conducted analyses focused on understanding why treatment impacts faded. Work included building usable data from variety of sources (e.g., surveys, school records, state test information, etc.). Implemented quantitative analyses using multiple regression, structural equation modeling, and instrumental variables. Presented work at multiple public policy and educational conferences.

NICHD PO1 Grant- Projects I and IV
School of Education
University of California, Irvine

Supervisors: Greg Duncan and George Farkas

2012~ present Title: Graduate Student Researcher

Duties: Oversaw numerous research projects investigating various hypotheses regarding long run processes in child development. Worked with a variety of datasets, including survey and panel data, and built new datasets from administrative records. Quantitative analyses have been published in academic journals and presented at multiple conferences.

Out of School Time Laboratory
School of Education
University of California, Irvine

Supervisor: Deborah Vandell, Ph.D.

2012~2013 Title: Graduate Student Researcher

Duties: Helped conduct literature review and wrote text regarding afterschool programs and out of school time for invited chapter in Handbook of Child Psychology.

TEACHING EXPERIENCE

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| 2017 | Primary Instructor , Introduction to Statistics (upcoming in Winter 2017) |
| 2016 | Teaching Assistant , Multiple Regression (graduate course), Professor Greg Duncan |
| 2012 | Teaching Assistant , Adolescent Development, Professor Joseph Mahoney |

INVITED LECTURES

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| 2015 | “Common Core and Obama’s Education Policy,” Guest lecture in EDUC 50, Issues in K-12 Education. |
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RESEARCH SKILLS

- **Analytic Techniques**
 - Multiple Regression
 - Structural Equation Modeling
 - Experimental and Quasi-Experimental Methods
 - Hierarchical Models
 - Descriptive Statistics
- **Statistics Software Expertise**
 - Stata
 - Mplus
 - SPSS
 - HLM
- **Courses Taken in Research Methods**
 - Social and Behavioral Statistics
 - Qualitative Research Methods I and II
 - Structural Equation Modeling
 - Multiple Regression Analyses
 - Applied Econometrics I and II
 - Hierarchical Linear Modeling

PROFESSIONAL MEMBERSHIP

American Educational Research Association
Society for Research on Educational Effectiveness
Association for Public Policy Analysis and Management
Society for Research in Child Development
Association for Psychological Science