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ACADEMIC POSITIONS

2017~present Research Assistant Professor and Postdoctoral Scholar
Postdoc mentor: Cybele Raver
New York University
Steinhardt School of Culture, Education, and Human Development
New York, NY

CONSULTANT WORK

2017~present MDRC
Oversaw secondary data analysis project for the Making PreK Count Study
Implemented analysis of 5 separate cluster-design RCT's

2016-2017 Lawrence Consulting
Contributed to efficacy studies of several large-scale K-12 education programs targeted at underserved populations

2014-2016 University of Denver (TRIAD Project)
Consulted on data analysis of multi-site cluster RCT preschool curriculum study
Authored multiple manuscripts and evaluation reports

EDUCATION

2017 Ph.D., Education
Specialization in Educational Policy and Social Contexts
University of California, Irvine
Committee: Greg Duncan (chair),
Drew Bailey, Damon Clark, and Carol Connor
Dissertation: *Academic Skills and Long-Run Outcomes*

2015 M.A. in Education
University of California, Irvine

2011 B.A., double major in Psychology and Religious Studies with high honors
University of Texas

RESEARCH SUPPORT

U.S. Department of Education- IES. "Improving Low-Income Students' Odds of Being 'On-Track' and College Ready in Chicago Public Schools." 2016-2020, Co-Investigator (PI- Cybele Raver), \$3,210,436.

SELECTED AWARDS

- 2017 Michael Martinez Prize for Outstanding Research and Service
University of California, Irvine
- 2014 Associated Graduate Student Award for Best Social Science Research Presentation
University of California, Irvine

PEER-REVIEWED PUBLICATIONS

- Watts, T. W.**, Gandhi, J., Ibrahim, D. A., Masucci, M. D., & Raver, C. C. (2018). The Chicago School Readiness Project: Examining the long-term impacts of an early childhood intervention. *PLOS ONE*. doi: 10.1371/journal.pone.0200144
- Watts, T. W.**, Duncan, G. J., & Quan, H. (2018). Revisiting the Marshmallow Test: A conceptual replication investigating links between early gratification delay and later outcomes. *Psychological Science*, 29, 1159-1177. doi: 10.1177/0956797618761661
- Bailey, D. H., Duncan, G. J., **Watts, T. W.**, Clements, D. H., & Sarama, J. (2018). Risky business: Correlation and causation in longitudinal studies of skill development. *American Psychologist*, 73(1), 81-94. <http://dx.doi.org/10.1037/amp0000146>
- Jenkins, J. M., **Watts, T. W.**, Magnuson, K., Gershoff, E., Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E. (2018). Do high-quality kindergarten and first-grade classrooms mitigate preschool fadeout? *Journal of Research on Educational Effectiveness*, 11, 339-374, doi: 10.1080/19345747.2018.1441347
- Watts, T. W.**, Duncan, G. J., Clements, D. H., Sarama, J. (2018). What is the long-run impact of learning mathematics during preschool? *Child Development*, 89(2), 539-555. doi:10.1111/cdev.12713
- Schenke, K., Nguyen, T., **Watts, T.W.**, Clements, D. H., Sarama, J., Wolfe, C. B., & Spitler, M. E. (2017). Differential effects of the classroom on African American and non-African American's mathematics achievement. *Journal of Educational Psychology*, 109(6), 794-811. doi: 10.1037/edu0000165
- Watts, T. W.**, Clements, D. H., Sarama, J., Wolfe, C. B., Spitler, M. E., & Bailey, D. H. (2016). Does early mathematics intervention make lower-achieving children learn like higher-achieving children? *Journal of Research on Educational Effectiveness*, 10(1), 95-115. doi: 10.1080/19345747.2016.1204640
- Engel, M., Claessens, A., **Watts, T. W.**, & Stone, S. (2016). Socioeconomic inequality at school entry: A cross-cohort comparison of families and schools. *Children and Youth Services Review*, 71, 227-232. doi: 10.1016/j.childyouth.2016.10.036
- Engel, M., Claessens, A., **Watts, T. W.**, & Farkas, G (2016). Mathematics content coverage and student learning in kindergarten. *Educational Researcher*, 45(5), 293-300. doi: 10.3102/0013189X16656841
- 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. doi: 10.1016/j.ecresq.2016.02.003

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.

MANUSCRIPTS IN PROGRESS

Watts, T. W. *Will boosting test scores improve labor market outcomes?* Preparing for submission to *Educational Evaluation and Policy Analysis*.

Watts, T. W., Duncan, G. J., & Rivas, M. *A reanalysis of impacts of the Tennessee Voluntary Preschool Program.* Preparing for submission to *American Economic Journal: Applied Economics*.

Watts, T. W., Ibrahim, D. A., Khader, A., Gandhi, J., & Raver, C. C. *The effects of early childhood intervention on later school choice.* Preparing for submission to *Educational Researcher*.

Engel, M., Claessens, A., Bassock, D., Kabourek, S., & **Watts, T.W.** *Does early academic instruction affect children's socio-emotional development?* Manuscript in preparation.

INVITED CHAPTERS

Vandell, D.L., & **Watts, T.W.** (2018). Self care. In M.H. Bornstein (Editor-in-Chief) M. Arterberry, J. E. Lansford, & K. L. Fingerman (Eds.), *The SAGE encyclopedia of lifespan human development* (pp. 1923-1925). Thousand Oaks, CA: SAGE. doi: <http://dx.doi.org/10.4135/9781506307633.n715>

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

INVITED PRESENTATIONS

Watts, T. W., (2018, October). *A Reanalysis of the Impacts of the Tennessee Voluntary Prekindergarten Program.* Invited talk, Graduate School of Education, Harvard University.

Watts, T. W., (2018, September). *Early Intervention and Longitudinal Modelling: What Can We Learn from Correlational Work?* Invited talk, Department of Psychology, St. John's University.

Watts, T. W., (2018, February). *The Chicago School Readiness Project: Examining the Long-Term Impacts of an Early Childhood Intervention*. Invited talk, IES-PIRT Proseminar Series, New York University.

CONFERENCE TALKS

Watts, T.W., Gandhi, J., & Raver, C.C. (April, 2018). *Estimating the impact of the Chicago School Readiness Project (CSR) on adolescent executive function and behavior*. Paper presented at the 2018 annual meeting for the American Educational Research Association. New York, NY.

Watts, T.W., Gandhi, J., & Raver, C.C. (March, 2018). *Estimating the long-run impacts of the Chicago School Readiness Project*. Paper presented at the 2018 annual meeting for the Society for Research on Educational Effectiveness. Washington, DC.

Watts, T.W., Gandhi, J., & Raver, C.C. (March, 2018). *Estimating the long-run impacts of the Chicago School Readiness Project*. Paper presented at the 2018 annual meeting for the American Educational Finance and Policy meeting. Portland, OR.

Watts, T. W., Duncan, G. J., & Rivas, M. (January, 2018). *A reanalysis of impacts of the Tennessee Voluntary Preschool Program*. Paper presented at the 2018 annual meeting for the American Economic Association.

Watts, T. W., (April, 2017). *Revisiting the correlation between test scores and adult earnings*. Paper presented at the 2017 biennial meeting for the Society for Research in Child Development.

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 biennial 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 biennial 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 biennial meeting of the Society for Research in Child Development. Seattle, WA.

TEACHING EXPERIENCE

2017	Primary Instructor , Introduction to Statistics <i>Average score of 4.65 (5-point scale) across all items on end-of-term evaluation</i>
2016	Teaching Assistant , Multiple Regression (graduate course), Professor Greg Duncan
2012	Teaching Assistant , Adolescent Development, Professor Joseph Mahoney

SERVICE WORK

Journal referee	Psychological Science; Developmental Psychology; Applied Developmental Science; Learning and Individual Differences; Children and Youth Services Review; British Journal of Developmental Psychology; Educational Researcher; Merrill-Palmer Quarterly
Grant referee	Administration for Children and Families, US Department of Health and Human Services
NYU	Mentor for the FOCUS Program (a mentorship program for first-generation college students)

Podcast host and editor of “On the Ground” research dissemination project
UC, Irvine Student Representative- Associated Doctoral Students of Education
Student Mentor for the School of Education DECADE Program (a mentorship program for first-generation college students and underrepresented minorities)

SELECTED MEDIA COVERAGE

Cantor, D. (2018, July 3). Marshmallow Test’s newest surprise: Kids have more self-control today than in the ‘60s. *Forbes*. Retrieved from: <https://www.forbes.com/sites/the74/2018/07/03/marshmallow-tests-newest-surprise-kids-have-more-self-control-today-than-in-the-60s/#16db3b8149f4>

Resnick, B. (2018, June 6). The “Marshmallow Test” said patience was key to success. A new replication tells us s’ more. *VOX*. Retrieved from: <https://www.vox.com/science-and-health/2018/6/6/17413000/marshmallow-test-replication-mischel-psychology>

Toppo, G. (2018, June 6). Softening claims of the Marshmallow Test. *Inside Higher Ed*. Retrieved from: <https://www.insidehighered.com/news/2018/06/06/new-findings-cast-doubt-marshmallow-test-success-claims>

Calarco, J.M. (2018, June 1). Why rich kids are so good at the Marshmallow Test. *The Atlantic*. Retrieved from: <https://www.theatlantic.com/family/archive/2018/06/marshmallow-test/561779/>

Adams, R. (2018, June 1). Famed impulse control ‘Marshmallow Test’ fails in new research. *The Guardian*. Retrieved from: <https://www.theguardian.com/education/2018/jun/01/famed-impulse-control-marshmallow-test-fails-in-new-research>

Brueck, H. (2018, May 31). The famous Stanford ‘Marshmallow Test’ suggested that kids with better self-control were more successful. But its being challenged because of a major flaw. *Business Insider*. Retrieved from: <https://www.businessinsider.com/marshmallow-test-of-self-control-may-not-be-correct-2018-5>

Bailey, D. H. (2014, November 13). What’s the point of teaching math in preschool? *Brookings*. Retrieved from: <https://www.brookings.edu/research/whats-the-point-of-teaching-math-in-preschool/>