

## CURRICULUM VITAE

SHUYAN SUN

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### EDUCATION

Ph.D.	2012	University of Cincinnati, Quantitative Research Methodology
M.A.	2008	University of Cincinnati, Educational Studies
B.A.	2004	Beijing Normal University, Philosophy

### Experience in Higher Education

2018 -	Tenured Associate Professor of Quantitative Methods Department of Psychology, University of Maryland, Baltimore County
2012 - 2018	Tenured-Track Assistant Professor of Quantitative Methods Department of Psychology, University of Maryland, Baltimore County

### Research Support and/or Fellowships

2017 – 2019	\$299,773, National Science Foundation, Principal Investigator
2017 – 2019	\$50,000, Spencer Foundation, Principal Investigator
2016 – 2021	\$5,000,000, National Science Foundation, Co-Investigator/Lead Researcher
2016 – 2018	\$4,900, CAHSS Dean's Research Fund, Principal Investigator
2014 – 2014	\$2,000, UMBC Summer Faculty Fellowship, Principal Investigator
2013 – 2013	\$6,000, UMBC Summer Faculty Fellowship, Principal Investigator
2012 – 2013	\$1,500, National Science Foundation, Co-Principal Investigator

### Ph.D. Students (29)

#### Completed (13)

Rose Belanger	2017	Committee member
Chandra Estelle Khalifian	2017	Committee member
Jessica Becraft	2017	Committee member
Shayla Thrash	2017	Committee member
Emily Wald	2016	Committee member
Taylor Berens Crouch	2016	Committee member

Jing Yu	2016	Committee member
Saniha Makhzoumi	2016	Committee member
Angela Petersen	2016	Committee member
Kate Shannon	2015	Committee member
Nan Zhou	2015	Committee member
Madiha Tahseen	2014	Committee member
Laura Rose	2014	Committee member

**Ongoing (16)**

Lakeya McGill		Committee member
Eryn Kruger		Committee member
Daniel Knoblach		Committee member
Sabrina Ereshefsky		Committee member
Samantha Hardesty		Committee member
Wendy Pinder		Committee member
Tiffany Beason		Committee member
Joy Thompson		Committee member
Catherine Corno		Committee member
Julian Farzan-Kashani		Committee member
Caroline L. Demro		Committee member
Meagan Graydon		Committee member
Thomas Tsuji		Committee member
Shari Jurik		Committee member
Amber Mendres-Smith		Committee member
Lakeya McGill		Committee member

**Master's Students (21)****Completed (15)**

Nicole Andorko	2017	Committee member
Elisabeth Groth	2017	Committee member
Merve Balkaya	2017	Committee member
Naomi Parr	2017	Committee member
Veronica Hamilton	2017	Committee member
Adam Hanna	2016	Committee member
Alisa Zeligler-Kandasamy	2016	Committee member
Cassandra Simons	2016	Committee member
Daniel Knoblach	2016	Committee member
Jennifer Bates	2016	Committee member
Kathy Vu	2016	Committee member
Rebecca Dowling	2016	Committee member
Samantha Bento	2016	Committee member
Hui Jun Lim	2015	Committee member
Shelby Jones	2015	Committee member

**Ongoing (6)**

Ana Maldonado	Committee member
Brittany Gay	Committee member
Emily Steiner	Committee member
Marissa Daly	Committee member
Pamela Rakhshan	Committee member
Xiaofang Xue	Committee member

**Undergraduate Students (12)**

Steven Bailey	Research Experience in Psychology	Fall 2017	Mentor
Michael Droboniku	Research Experience in Psychology	Fall 2016 – Spring 2017	Mentor
Mai-Han Trinh	UMBC Honors College Research	Spring 2016	Mentor
Jeremiah Quijote	Research Experience in Psychology	Spring 2016	Mentor
Alexis Rubin	Psychology Honors Thesis Research	Fall 2015 – Spring 2016	Mentor
Jenna Williams	Research Experience in Psychology	Fall 2014 – Spring 2015	Mentor
Alexis Rubin	Research Experience in Psychology	Spring 2014 – Spring 2015	Mentor
Deepika Gorre	Research Experience in Psychology	Fall 2013 – Spring 2014	Mentor
Shafaq Fatima	Research Experience in Psychology	Fall 2013 – Spring 2014	Mentor
Alexander Evans	Research Experience in Psychology	Fall 2013 – Spring 2014	Mentor
Catherine Lo	Research Experience in Psychology	Fall 2013	Mentor
Sanaz Toolabi	Research Experience in Psychology	Spring 2013 – Fall 2013	Mentor

**PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS****Publications****Peer-Reviewed Articles**

- (22) Balkaya, M., Cheah, C. S. L., Yu, J., Hart, C. H., & Sun, S. (In press). The role of temperamental shyness and maternal encouragement of modesty in Chinese American children's social adjustment. *Social Development*.
- (21) Guo, Y, Sun, S., Puranik, C., & Breit-Smith, A. (2018). Profiles of emergent writing skills among preschool children. *Child & Youth Care Forum*, 47(3), 421-442. doi: <https://doi.org/10.1007/s10566-018-9438-1>
- (20) Özdemir, S. B., Sun, S., Korol, L., Özdemir, M., & Stattin, H. (2018). Adolescents' engagement in ethnic harassment: Prejudiced beliefs in social network and classroom ethnic composition. *Journal of Youth and Adolescence*. doi: 10.1007/s10964-017-0795-0
- (19) Seo, Y. J., Cheah, C. S. L., Özdemir, S. B., Hart, C. H., Leung, C. Y., & Sun, S. (2017). The mediating role of Korean immigrant mothers' psychological well-being in the associations between social support and authoritarian parenting style. *Journal of Child and Family Studies*, 1-11. doi: 10.1007/s10826-017-0936-9
- (18) Zhou, N., Cheah, C. S. L., Liu, J., Li, Y., & Sun, S. (2017). The role of maternal and child characteristics in Chinese Children's dietary intake across three groups. *Journal of Pediatric Psychology*. 1-10, doi: 10.1093/jpepsy/jsx131

- (17) Andorko, ND., Mittal, V., Thompson, E., Denenny, D., Epstein, G., Demro, C., Wilson, C., Sun, S., Klingaman, E., DeVyllder, J., Oh, H., Postolache, TT., Reeves, G., & Schiffman, J. (2017). The association between sleep dysfunction and psychosis-like experiences among college students. *Psychiatry Research*, 248, 6-12. Retrieved from <https://doi.org/10.1016/j.psychres.2016.12.009>
- (16) Sonnenschein, S., & Sun, S. (2016). Racial/ethnic differences in kindergartners' reading and math skills: Parents' knowledge of children's development and home-based activities as mediators. *Infant and Child Development*. doi:10.1002/icd.2010
- (15) Cheah, C. S. L., Yu, J., Hart, C. H., Özdemir, S. B., Sun, S., Zhou, N., ... & Sunohara, M. (2016). Parenting hassles mediate predictors of Chinese and Korean immigrants' psychologically controlling parenting. *Journal of Applied Developmental Psychology*, 47, 13-22. Retrieved from <https://doi.org/10.1016/j.appdev.2016.09.005>
- (14) Maton, K. I., Beason, T. S., Godsay, S., Domingo, M. S. R., Bailey, T. S., Sun, S., & Hrabowski, III, F. A. (2016). Outcomes and processes in the Meyerhoff Scholars Program: STEM PhD completion, sense of community, perceived program benefit, science identity, and research self-efficacy. *CBE-Life Sciences Education*, 15, ar48. doi:10.1187/cbe.16-01-0062
- (13) Yu, J., Sun, S., & Cheah, C. S. L. (2016). Multitrait-multimethod analysis of the Strengths and Difficulties Questionnaire in Asian-American preschoolers. *Assessment*, 23, 603-613. doi:10.1177/1073191115586459
- (12) Yu, W., Cheah, C. S. L., & Sun, S. (2015). The moderating role of English proficiency in the association between immigrant Chinese mothers' authoritative parenting and children's outcomes. *The Journal of Genetic Psychology: Research and Theory on Human Development*, 176, 272-279. doi:10.1080/00221325.2015.1022503.
- (11) Guo, Y., Sun, S., Breit-Smith, A., Morrison, F. J., & Connor, C. M. (2015). Behavioral engagement and reading achievement in elementary-school-age children: A longitudinal cross-lagged analysis. *Journal of Educational Psychology*, 107, 332-347. Retrieved from <http://dx.doi.org/10.1037/a0037638>
- (10) Yu, J., Cheah, C. S. L., Hart, C., Sun, S., & Olsen, J.A. (2015). Confirming the multidimensionality of psychologically controlling parenting among Chinese-American mothers: Love withdrawal, guilt induction, and shaming. *International Journal of Behavioral Development*, 39, 285-292. doi:10.1177/0165025414562238.
- (9) Sun, S. & Wang, S. (2015). The Children's Depression Inventory in worldwide child development research: A reliability generalization study. *Journal of Child and Family Studies*, 24, 2352-2363. doi:10.1007/s10826-014-0038-x
- (8) Sun, S. & Pan, W. (2014). A methodological review of statistical methods for handling multilevel nonnested longitudinal data in educational research. *International Journal of Research & Method in Education*, 37, 285-308. doi:10.1080/1743727X.2014.885012
- (7) Hwu, F., Pan, W., & Sun, S. (2014). Aptitude-treatment interaction effects on explicit rule learning: A latent growth curve analysis. *Language Teaching Research*, 18, 294-319. doi:10.1177/1362168813510381
- (6) Sun, S. & Pan, W. (2013). Investigating the accuracy of three estimation methods for regression discontinuity design. *Journal of Experimental Education*, 81, 1-21. doi:10.1080/00220973.2012.678410
- (5) Hwu, F., & Sun, S. (2012). The aptitude-treatment interaction effects on the learning of grammar rules. *System*, 40, 505-521. Retrieved from <https://doi.org/10.1016/j.system.2012.10.009>

- (4) Sun, S. (2011). Meta-analysis of Cohen's Kappa. *Health Services and Outcomes Research Methodology*, 11, 145-163. doi:10.1007/s10742-011-0077-3
- (3) Sun, S., & Pan, W. (2011). The philosophical foundations of prescriptive statements and statistical inference. *Educational Psychology Review*, 23, 207-220. doi:10.1007/s10648-011-9157-8
- (2) Sun, S., Pan, W., & Wang, L. (2011). Rethinking observed power: Concept, practice and implications. *Methodology*, 7, 81-87. doi:10.1027/1614-2241/a000025
- (1) Sun, S., Pan, W., & Wang, L. (2010). A comprehensive review of effect size reporting and interpreting practices in academic journals in education and psychology. *Journal of Educational Psychology*, 102, 989-1004. doi:10.1037/a0019507

### Work In Preparation

Sonnenschein, S., Sun, S., & Simons, C. (In preparation). Reading skills of U.S. kindergartners in 1998 and 2011: Closing the gap?

### Presentations

#### Conference/Poster Presentations (Juried/Refereed)

- Sun, S. (2018, July). *Dynamic relations between engagement and college science learning: A six-week intensive longitudinal study*. Poster to be presented at the 25th Biennial Meeting of the International Society for the Study of Behavioral Development, Gold Coast, Queensland, Australia.
- Sun, S., French, A., & Dowling, R. (2018, July). *A meta-analysis of the effectiveness of adaptive learning systems in K-12 and higher education*. Poster to be presented at the 25th Biennial Meeting of the International Society for the Study of Behavioral Development, Gold Coast, Queensland, Australia.
- Sun, S. (2017, April). An investigation of measurement invariance across gender, ethnicity, and income groups. Poster presented at the Biennial Meeting of the Society of Research in Child Development, Austin, TX.
- Sun, S. & Trinh, M-H. (2017, April). The utility of Omega if Item Deleted in scale development. Poster presented at the Biennial Meeting of the Society of Research in Child Development, Austin, TX.
- Sun, S. (2016, July). *The Validity of Engagement as a Multidimensional Construct: Evidence from the U.S. ECLS-K Study*. Poster presented at the 24th Biennial Meeting of the International Society for the Study of Behavioral Development, Vilnius, Lithuania.
- Sun, S. (2016, July). *Sample Size Guidelines for Evaluating Treatment Effect in Intensive Longitudinal Studies*. Poster presented at the 24th Biennial Meeting of the International Society for the Study of Behavioral Development, Vilnius, Lithuania.
- Sonnenschein, S., Sun, S., Galindo, C., & Dowling, R. (2016, July). *Racial/Ethnic Gaps in U.S. Children's Math Skills in Elementary School*. Poster to be presented at the 24th Biennial Meeting of the International Society for the Study of Behavioral Development, Vilnius, Lithuania.
- Yu, J., & Sun, S. (2016, April). Multilevel modeling of individual and familial factors associated with children's growth in self-regulation. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

- Dowling, R. Sonnenschein, S., **Sun, S.**, & Baker, L. (2016, April). Advancing low-income english language learners vocabulary in preschool. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.
- Sun, S.**, Sonnenschein, S., & Dowling, R. (2015, March). *Predictors of child engagement in shared book reading: The role of parental Talk*. Poster presented at the Biennial Meeting of the Society of Research in Child Development, Philadelphia, PA.
- Simons, C., Sonnenschein, S., & **Sun, S.** (2015, March). *The home learning environment and achievement: Self-regulation and executive function as mediators*. Poster presented at the Biennial Meeting of the Society of Research in Child Development, Philadelphia, PA.
- Sonnenschein, S., **Sun, S.**, Simons, C., & Thompson, J.A. (2014, November). *Associations between parents' country of birth, race/ethnicity, parenting practices, and children's early academic skills*. Proposal submitted to the Special Topic Meeting of the Society of Research in Child Development: New Conceptualizations in the Study of Parenting-At-Risk, San Diego, California.
- Sun, S.** & Yu, J. (2014, September). *The effect of age on development: A methodological review of meta-analyses*. Poster presented at the Special Topic Meeting of the Society of Research in Child Development: Developmental Methodology, San Diego, CA.
- Yu, J., **Sun, S.**, & Cheah, C. (2014, September). *Psychometric properties of the Strengths and Difficulties Questionnaire in Asian-American Preschoolers*. Poster presented at the Special Topic Meeting of the Society of Research in Child Development: Developmental Methodology, San Diego, CA.
- Yu, J., Cheah, C., **Sun, S.**, & Craig, H. (2014, September). *Sociable and Non-sociable Profiles of Chinese-American Children and Associated Temperamental and Parenting Characteristics*. Poster presented at the Special Topic Meeting of the Society of Research in Child Development: Developmental Methodology, San Diego, CA.
- Sun, S.** & Yu, J. (2014, July). *Does harsh parenting cause low self-regulation in Chinese American preschoolers? A propensity score matching analysis*. Poster presented at the 23rd Biennial Meeting of the International Society for the Study of Behavioral Development, Shanghai, China.
- Sun, S.**, Sonnenschein, S., Simons, C., & Thompson, J.A. (2014, July). The immigrant paradox: Associations between Latino kindergartners' reading and mathematics skills, parents' knowledge of children's development and home-based practices. Poster presented at the 23rd Biennial Meeting of the International Society for the Study of Behavioral Development, Shanghai, China.
- Yu, J., **Sun, S.**, Cheah, C.S. L., & Pitts, S. C. (2014, July). Differential growth trajectories of self-control among White, Black, Hispanic, and Asian children in the U.S.: A multi-group latent growth model. Poster to be presented at the 23rd Biennial Meeting of the International Society for the Study of Behavioral Development, Shanghai, China.
- Sonnenschein, S., & **Sun, S.** (2014, April). *Kindergartners' Reading Skills in 1998 and 2011: Closing the Gap?* Poster presented at the topic meeting of the Society of Research in Child Development, Alexandria, VA.
- Sonnenschein, S., **Sun, S.**, Thompson, J. A., & Simons, C. (2014, April). *Racial/ethnic differences in kindergartners' reading and math skills: Associations with parents' knowledge and home-based practices*. Poster presented at the meeting of the American Educational Research Association, Philadelphia, PA.

Cheah, C.S.L., Yu, J., Ozdemir, S. B., Zhou, N, Sun, S., Watanabe, M. Lim, H. J., & Hart, C. (2013, April). An ecological model predicting psychological control in Chinese versus Korean U.S. immigrant mothers. Poster presented at Society of Research in Child Development, Seattle, Washington.

Sun, S., & Pan, W. (2013, April). *Are children's social skills measured invariantly over time by teacher ratings? A preliminary investigation using the ECLS-K data.* Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Sun, S., & Wang, S. (2013, April). *The Children's Depression Inventory in child development research: A reliability generalization study.* Paper accepted to present at the annual meeting of the American Educational Research Association, San Francisco, CA.

## SERVICE TO THE DEPARTMENT, UNIVERSITY, COMMUNITY AND PROFESSION

### Service to the Department

2013 -	Member	Undergraduate Committee
2012 -	Member	Applied Developmental Psychology Graduate Faculty
Spring 2014	Member	The Ad Hoc PSYC 311 Committee

### Service to the University

2017 -	At-Large Officer	Asian and Asian American Faculty and Staff Council
2017 - 2019	Member	Faculty Senate Honors & Awards Committee
2017	Interviewer	Sondheim Public Service Scholars Program
2014 - 2016	Reviewer	McNair Scholars Program
2014 - 2016	Reviewer	Graduate Research Conference

### Service to the Profession

2017	Chair	SIG-Early Education and Child Development roundtable session titled Young Children's Care and Learning in Different Early Childhood Settings at the American Educational Research Association 2017 Conference
2016	Reviewer	Schizophrenia Bulletin BMC Research Notes
2016	Reviewer	Clark-Carter, D. (2010). <i>Quantitative Psychological Research</i> (3 <sup>rd</sup> ed.) Routledge, Taylor & Francis
2016	Chair	SIG-Research in Mathematics Education paper session titled Measuring Student Interest, Engagement, and Well-Being in Mathematics Instruction at the American Educational Research Association 2016 Conference
2015 - 2017	Reviewer	International Journal of Psychology
2015 - 2017	Review Editor	Educational Psychology, a specialty section of <i>Frontiers in Psychology</i>
2015 - 2017	Member	American Educational Research Association Division D: Measurement and Research Methodology Outstanding Quantitative Dissertation Committee

2015	Reviewer	DeVellis, R. F. (2017). Scale development: Theory and applications (4th ed.) SAGE Publications
2015	Reviewer	Journal of Applied Behavioral Analysis Research in Human Development British Medical Journal Sage Open
2014	Reviewer	Book proposal: Changing Measures: Processes for Modification and Adaptation of Validated Scales for Health Research SAGE Publications
2013 - 2014	Reviewer	Journal of Educational Psychology
2012 - 2013	Reviewer	American Journal of Political Science
2010 - 2017	Reviewer	American Educational Research Association Annual Conferences