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ACADEMIC POSITIONS

Nanyang Technological University (NTU) Postdoctoral Research Fellow Advisor: Dr. Peipei Setoh	Singapore 2026 – present
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EDUCATION

University of Illinois, Urbana-Champaign Ph.D. in Developmental Psychology Minor in Quantitative Psychology Advisor: Dr. Eva M. Pomerantz Thesis: From math activities to math homework: How interaction context shapes parents' involvement and children's math learning	IL, United States 2019 – 2025
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M.S. (2021) in Psychology (en route to Ph.D.)
Advisor: Dr. Eva M. Pomerantz
Thesis: Parents' daily involvement in children's math homework and activities during early elementary school

Fudan University B.S. in Psychology Advisor: Dr. Xiaoru Li Thesis: The Impact of Love: A Mediational Model Connecting Parental Warmth and Academic Motivation	Shanghai, China 2015 – 2019
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PUBLICATIONS

Wu, J., & Pomerantz, E. M. (2026). Parents' involvement in children's math learning: Motivational resources matter. *Child Development Perspectives*, aadag004.

Pomerantz, E. M., **Wu, J.**, & MacDonald, C. (2025). The role of parenting in children's math learning: A dual-pathway model. *Advances in Child Development and Behavior*, 69, 193-221.

Wu, J., Oh, D., Hyde, D. C., & Pomerantz, E. M. (2024). Cognitive and motivational numeracy parenting practices: Implications for children's numeracy engagement during early elementary school. *Developmental Psychology*, <https://doi.org/10.1037/dev0001706>

Wu, J., Barger, M. M., Oh, D., & Pomerantz, E. M. (2022). Parents' daily involvement in children's math homework and activities during early elementary school. *Child Development*, 93(5), 1347-1364.

Barger, M. M., **Wu, J.**, Xiong, Y., Oh, D. D., Cimpian, A., & Pomerantz, E. M. (2022). Parents' responses to children's math performance in early elementary school: Links with parents' math beliefs and children's math adjustment. *Child development*, 93(6), e639-e655.

Fitzpatrick, E. M., **Wu, J.**, JoAnne, W., Flora, N., Isabelle, G., Andrée, D. S., & Doug, C. (2022). Parent-reported stress and child behavior for 4-year-old children with unilateral or mild bilateral hearing loss. *Journal of Deaf Studies and Deaf Education*, 27(2), 137-150.

Zhou, Z., Li, M., **Wu, J.**, & Li, X. (2021). Differential associations between parents' versus children's perceptions of parental socialization goals and Chinese adolescent depressive symptoms. *Frontiers in psychology*, 12

- Chen, B., & **Wu, J.** (2018). Siblings with mental retardation or physical diseases in family with two children: A systematic review. *Advances in Psychology*, 8(05), 711.
- Chen, B., Zhao, Y., Han, W., Wang, Y., **Wu, J.**, Yue, X., & Wu, Y. (2017). Sibling relationships: Forms, causes and consequences. *Advances in Psychological Science*, 25(12), 2168.

Manuscript in Preparation

- Song, Y., **Wu, J.**, Barger, M. M., Rosenzweig, E. Q., & Pomerantz, E. M. (under review). *Contagious emotions and parental behavioral adjustments to children's math engagement: Revelations from dyadic math interactions*. *Developmental Psychology*.
- Wu, J.**, Lin, Z., Sow, S., & Setoh, P. (in prep). *A Transactional View of the Home Mathematics Environment: Children's Early Skills, Parents' Activities Provision, and Later Achievement*. Nanyang Technological University
- Wu, J.**, Oh, D., Hyde, D. C., & Pomerantz, E. M. (in prep). *Children's Math Engagement During Interactions with Parents: Does it Matter for Their Later Math Adjustment?* University of Illinois, Urbana-Champaign
- Wu, J.** & Pomerantz, E. M. (in prep). *From math activities to math homework: How interaction context shapes parents' involvement and children's math learning*. University of Illinois, Urbana-Champaign
- Wu, J.**, Xiong, N., & Xiao, Z. (in prep). *Human in the Loop: Validating Large Language Models for Coding Parent-Child Math Talk*. University of Illinois, Urbana-Champaign
- Silinskas, G., **Wu, J.**, & Pomerantz, E. M. (in prep). *Parental Discussion About Math in Early Elementary School: Longitudinal Relations to Children's Math Interest, Anxiety and Achievement*. University of Jyväskylä

CHAIRED SYMPOSIA

Parents' Role in Children's Numeracy Development: A Focus on Numeracy Gesturing and Talk. Symposium at the Society for Research in Child Development 2023 Biennial Meeting (SRCD 2023).

CONFERENCE PRESENTATIONS

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- Setoh, P. P. & ^P**Wu, J.** (June 2026). *Keynote masterclass: Educating for the unpredictable—Developing human strengths in the AI age*. Redesigning Pedagogy International Conference (RPIC) 2026, National Institute of Education, Nanyang Technological University, Singapore.
- ^P**Wu, J.**, & Setoh, P. P. (April 2026). AI as opportunity more than threat? Student AI practices and cultural meanings of competence in Singapore. Presentation at the Asian Centre for Digital Cultures (ACDC) and Southeast Asian Languages in One Network (SEA-LION) Workshop on Culturally Aligned AI, Nanyang Technological University, Singapore.
- ^P**Wu, J.**, Zhang, L., Jia, Y. (April 2026). Minute by Minute: Unfolding Patterns of Parental Behaviors in Math Homework Help. Poster presentation at the American Educational Research Association 2026 Annual Meeting (AERA 2026).
- ^P**Wu, J.** & Pomerantz, E. M. (May 2025). From Math Activities to Math Homework: Contextual Influences on Parents' Involvement. Symposium talk presented at a paper session at the Society for Research in Child Development 2025 Biennial Meeting (SRCD 2025).
- ^PSong, Y., **Wu, J.**, & Barger, M. M. (April 2025). Parents' Positive Emotional Affect is Infectious in Dyadic Math Interaction. Symposium talk presented at a paper session at the American Educational Research Association 2025 Annual Meeting (AERA 2025).
- ^PMacDonald, C., **Wu, J.**, & Pomerantz, E. M. (April 2025). Children's Math Engagement as a Mediator Between Math Achievement and Math Anxiety. Symposium talk presented at a paper session at the American Educational Research Association 2025 Annual Meeting (AERA 2025).
- ^P**Wu, J.**, MacDonald, C., Hyde, D. C., & Pomerantz, E. M. (June 2024). Engagement-Sensitive Involvement: Parents Adjust Math Practices Based on Child Engagement. Poster presented at the

- Mathematical Cognition and Learning Society 2024 Annual Meeting (MCLS 2024).
- ^PMacDonald, C., **Wu, J.**, & Pomerantz, E. M. (June 2024). Parents' Math Anxiety and Affect: The Mediating Role of Efficacy in Helping. Symposium talk presented at the Mathematical Cognition and Learning Society 2024 Annual Meeting (MCLS 2024).
- ^P**Wu, J.**, Oh, D., Hyde., D. C., & Pomerantz, E. M. (April 2023). Numeracy Parenting Practices and Children's Numeracy Engagement: Which Practices Matter? Symposium talk presented at the Society for Research in Child Development 2023 Biennial Meeting (SRCD 2023).
- ^P**Wu, J.**, Oh, D., Hyde., D. C., & Pomerantz, E. M. (April 2023). Children's Numeracy Engagement During Interactions with Parents: Does it Matter for Their Later Math Adjustment? Poster presented at the Society for Research in Child Development 2023 Biennial Meeting (SRCD 2023).
- Wang, Y., ^P**Wu, J.**, Li, X. (November, 2018). *Differences in mental health indicators between different stages of puberty*. Presented at the 2018 International Conference of Chinese Applied Psychology (ICCAP), Shanghai, China.
- ^PHe, M., Campos, J. J., Anderson, D., Lin, L., Sang, B., **Wu, J.**, & Walle, E. A. (July 2018). *The role of walking in language acquisition: New findings from China*. Presented at the 2018 International Conference of Infant Studies (ICIS), Philadelphia, PA.
- ^PLi, X., **Wu, J.**, Wu, G. (November, 2017). *The mechanism of adolescents' life stress and depression: focus on emotional autonomy and social withdrawal behavior*. Presented at The 20th National Academic Congress of Psychology (NACP), Chongqing, China.

HONORS & AWARDS

Society for Research in Child Development (SRCD) Biennial Travel Award (\$300)	2025
Psychology Department Graduate Student Conference Extra Travel Award (\$200)	2025
J. McVicker Hunt Award for Excellence in Graduate Research and Scholarship (\$150)	2024
Psychology Department Graduate Student Conference Travel Award (\$350)	2024
Psychology Department Graduate Student Conference Travel Award (\$350)	2022
Excellence in Undergraduate Study Scholarship, Fudan University (Approximately \$1000)	2019
Mitacs Globalink Research Internship Scholarship (Approximately \$3000 plus travel grant)	2018
Undergraduate Research Support Grant (Approximately \$500 plus travel grant)	2018
Exchange Abroad Research Scholarship (Approximately \$2500 plus travel grant)	2017
Shanghai Simpleway Asset Reading and Learning Award (Approximately \$150 plus travel grant)	2017
Academic Excellence Undergraduate Scholarship (Approximately \$1000)	2016

INTERNAL & EXTERNAL FUNDING

Meta-analysis for STEM Education Workshop Trainee, Modern Meta-Analysis Research Institute, NSF	2024
Graduate Teaching Assistantship and Fellowship, Department of Psychology, <i>University of Illinois, Urbana-Champaign</i>	2023 - 2024
Graduate Research Assistantship, NSF Grant: Helping Parents to See Mathematics Ability as Malleable: Implications for Children's Mathematics Learning (PI: Eva Pomerantz)	2019 - 2022

TEACHING & MENTORING EXPERIENCE

Instructor, PSYC 216 Child Psychology, 2023 Spring & 2024 Spring
Quantitative Methods Consultant, URAP Undergraduate Research Community, 2020–2025
Research Supervisor, PSYC 290 Research Experience in Psychology
Research Supervisor, PSYC 494 Advanced Research in Psychology

- 2020 Spring: Shontasia Henderson; Arohi Deshpande
- 2023 Spring: Lening Liu
- 2025 Spring: Azhura Viandya; Olivia Zhang
- 2025 Fall: Yolanda Jia; Alina Huang; Natalie Meta-Louise Schmit

Undergraduate and Graduate Student Poster Presentations (Mentored)

- Liu, L. & Wu, J. (April 2024). The Correlations between Parent's Goals and Parenting Practices: Context as the Moderator. Poster presented at the University of Illinois Urbana Champaign Undergraduate Research Symposium 2024.
- Viandrya, A., Zhang, O. Y., & Wu, J. (April 2025). Carry the One, Support the Kid: The Role of Parents' Efficacy for Helping with Math Homework in Autonomy Support and Affect. Poster presented at the University of Illinois Urbana Champaign Undergraduate Research Symposium 2025.
- Wang, P. & Wu, J. (August 2025). The Buffering Effect of Perceived Parental Support Systems on Child ACEs and Depression. Poster presented at the American Psychological Association 2025.

PROFESSIONAL ACTIVITIES

Reviewer

Child Development, Developmental Psychology, Journal of Experimental Child Psychology, Journal of Research on Adolescence

Membership

American Educational Research Association
Mathematical Cognition and Learning Society
Society for Research in Child Development

METHODOLOGICAL & STATISTICAL EXPERTISE

Design & Modeling

Random-intercept cross-lagged panel models (RI-CLPM); longitudinal SEM & growth curves
Multilevel/hierarchical modeling (MLM); multilevel mediation
Structural equation modeling (SEM); measurement invariance (configural/metric/scalar)
Randomized controlled trial (RCT) design & implementation
Monte Carlo/power simulation; bootstrap (BCa) confidence intervals

Computational & Measurement

Human-in-the-loop LLM pipelines for behavioral coding
Reliability benchmarking (κ/α /ICC) & predictive validation
Machine learning & NLP (segmentation, diarization, feature extraction)
Behavioral observation systems: codebook/schema design, coder training, QA

Software & Tools

R (tidyverse, lme4/lmerTest, lavaan, psych, brms), Mplus; Python (pandas, scikit-learn); SPSS/AMOS;
Next.js (React/TypeScript), Git/GitHub, Vercel; Datavyu, ELAN, Subtitle Edit; Google Colab