

JIMENA COSSO

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EDUCATION

- 2022 **Ph.D., Educational Psychology and Research Methodology**
Purdue University
Dissertation Title: *Building a Bridge between Measurement and Latine Families: The Home Mathematics Environment*
Committee: Drs. Yukiko Maeda, Laura Bofferding, David Purpura, and Hirokazu Yoshikawa
- 2016 **M.A., International Development Education**
New York University
- 2010 **B.A., Sociology**
National University of La Plata, Argentina
- 2008 **Student Exchange**
University of Santiago de Chile, Chile

ACADEMIC POSITIONS

- 2022 - present **Assistant Professor.** Educational Psychology
The Pennsylvania State University

PEER-REVIEWED PUBLICATIONS

*denotes graduate student co-author

1. Ellis, A., **Cosso, J.**, Duncan, R., Susperreguy, M. I., Simms, V., & Purpura, D. (2023). International Comparisons of the Home Mathematics Environment and Relations with Children's Mathematical Achievement. *British Journal of Educational Psychology*. [Preregistration] <https://doi.org/10.1111/bjep.12625>
2. **Cosso, J.**, Finders, J. K., Duncan, R. J., Schmitt, S. A., & Purpura, D. J. (2023). The Home Numeracy Environment and Children's Early Math Skills: The Moderating Role of Parents' Math Anxiety. *Journal of Experimental Child Psychology*, 227, 105578. <https://doi.org/pii/S0022096522002077>
3. Purpura, D. K., O'Real, C., Ellis A., Logan, J. A. R., King Y., Westerberg, L., **Cosso, J.**, Zippert E., Napoli, A. R., Hornburg, C. B., Schmitt, S. A., Dobbs-Oates, J. (in press). Unique and Combined Effects of Mathematical Language and Numeracy

Instruction: A Picture Book Intervention. *Journal of Educational Psychology*.
[\[Preregistration\]](#)

4. **Cosso, J.**, Purpura, D. J., Maeda, Y., & Bofferding, L. (2022). The Home Mathematics Environment of Dual-Language Learning Children and their Early Mathematics Skills. *Journal of Applied Developmental Psychology*, *81*, 101434.
<https://doi.org/article/pii/S0193397322000466>
5. **Cosso, J.**, von Suchodoletz, A., & Yoshikawa, H. (2022). Effects of Parental Involvement Programs on Young Children's Academic and Social-Emotional Outcomes: A Meta-Analysis. *Journal of Family Psychology*, *36*(8),1329-1339.
<https://psycnet.apa.org/record/2022-68974-001>
6. **Cosso, J.**, Russo de Vivo, A.R., Hein, S., Reales-Silvera, L. P., Ramirez-Verela, L.*, Ponguta, L. A. (2022). Impact of a Psycho-Emotional Skills-Building Program on Children's Social-Emotional Development in Colombia. *International Journal of Educational Research*, *111*, 101898. <https://doi.org/10.1016/j.ijer.2021.101898>
7. **Cosso, J.**, Ellis, A., O'Real, C., Zippert E., Schmitt S., Purpura D.D. (2022). Conceptualizing the Factor Structure of Parents' Math Anxiety and Associations with Children's Mathematics Skills. *ANNALS of the New York Academy of Sciences*, *1511*(1), 119-132. [\[Preregistration\]](#) <https://doi.org/10.1111/nyas.14736>
8. Li, Q., Cho, H., **Cosso, J.**, & Maeda, Y. (2021). Li, Q., Cho, H., Cosso, J., & Maeda, Y. (2021). Relations between Students' Mathematics Anxiety and Motivation to Learn Mathematics: A Meta-Analysis. *Educational Psychology Review*, *33*(3), 1017-1049.
<https://psycnet.apa.org/record/2021-05833-001>
9. Hornburg, C. B., Borriello, G.A., Kung, M., Lin, J., Litkowski, E., **Cosso, J.**, Ellis, A., King, Y., Zippert, E., Cabrera, N., Davis-Kean, P., Eason, S. H., Hart, S. A., Iruka, I., LeFevre, J.-A., Simms, V., Susperreguy, M. I., Cahoon, A., Chan, W. W. L., Cheung, S. K., Coppola, M., De Smedt, B., Elliot, L., Estévez-Pérez, N., Gallagher-Mitchell, T., Gardner-Neblett, N., Gilmore, C., Leyva, D., Maloney, E. A., Manolitsis, G., Melzi, G., Mutaf-Yıldız, B., Nelson, G., Niklas, G., Pan, Y., Ramani, G. B., Skwarchuk, S.-L., Sonnenschein, S., & Purpura, D. J. (2021). Next Directions in Measurement of the Home Mathematics Environment: An International and Interdisciplinary Perspective. *Journal of Numerical Cognition*, *7*(2), 195.
<https://doi.org/10.5964/jnc.6143>

MANUSCRIPTS UNDER REVIEW

*denotes graduate student co-author

1. **Cosso, J.**, Campos Oaxaca, G.*, & Purpura, D. J. (conditionally accepted). Shifting our Understanding of the Home Numeracy Environment by Looking at Latine Families. *Infant and Child Development*.

2. **Cosso, J.**, Purpura, D., & Yoshikawa, H. (revise and resubmit). The Home Numeracy Environment of Latine Families: A Mixed-Methods Measurement Development Study. *Journal of Educational Psychology*.
3. **Cosso, J.**, Ellis, A., Caramargo, S.*, & Susperreguy, M. I. (under review). Variation in Mathematical Performance: A Multilevel Analysis Exploring Student and School's Characteristics. *Learning and Instruction*.
4. **Cosso, J.**, & Melzi, G. (under review). Numeracy Engagement Patterns of US Latine Families. *Early Childhood Research Quarterly*.

MANUSCRIPT IN PROGRESS

*denotes graduate student co-author

1. Ellis, A., O'Rear, C., **Cosso, J.**, & Purpura, D. Examining the Factor Structure of the General Home Learning Environment. [\[Preregistration\]](#)
2. **Cosso, J.**, Montufar Soria, P.*, Melzi, G., & Purpura, D. Latine Home Math Environment and Dual Language Learners' Early Math Skills: The Moderating Role of Parents' Math Anxiety.
3. **Cosso, J.** Validating a Culture-Contextualized Measure of the Home Mathematics Environment for Latine Families. [\[Preregistration\]](#)
4. **Cosso, J.**, Ellis, A., Visconti, G., & Purpura, D. Language Matter: The Effect of the Language Pathway Test in Latine Dual Language Learners' School Readiness Skills. [\[Preregistration\]](#)
5. Westerburg, L.*, Ehrman, P.*, Herrera, F.*, Varnell, S.*, King, Y., Closser, A., Clark, E.*, Carkoglu, C.*, McElveen, T., Ellis, A., **Cosso, J.**, Beltrán-Grimm, S., & Purpura, D. Beyond Quantity and Number Symbols: Spontaneous Focusing on Early Mathematical Domains. [\[Preregistration\]](#)
6. Caramargo, S.*, **Cosso, J.**, The Debilitating Role of Math Anxiety on Math Learning: A Multilevel Model Explaining Variance by Student and School Characteristics.
7. Pyres Lynn, M.*, McCrudden, M., & **Cosso, J.** Wolastoqiyik Students' Sense of Belonging in School: An Exploratory Sequential Mixed Methods Study.

RESEARCH BRIEFS AND REPORTS

1. **Cosso, J.**, & Yoshikawa, H. (2019). Systematization of International Experiences in Educational Care Programs Aimed at Girls and Boys from 3 to 5 Years Old. *United Nations Educational, Scientific and Cultural Organization (UNESCO)*. In Spanish.
2. Yoshikawa, H., & **Cosso, J.** (2017). International Experiences in Preprimary Education – Curriculum and Coaching. Ministry of Education, Peru.

3. Valiente, M., Castro, C., & **Cosso, J.** (2012). For a Better Early Childhood Education in Chile: Role, Relevance, and Challenges of the National Board of Kindergartens. *Serie Sistemas Públicos n 7. Centro de Sistemas Públicos, Ingeniería Industrial, Universidad de Chile (CSP)*. In Spanish.

OPEN SOURCES AND PUBLISHED DATA

Ellis, A., King, Y. A., Westerberg, L., O'Rear, C. D., Hornburg, C. B., McElveen, T. L., Zippert, E. L., **Cosso, J.**, Grimm, S. B., Ehrman, P. C., & Purpura, D. J. (2022). *Early Home Learning Environment*. LDbase.
<https://doi.org/10.33009/ldbbase.1644347317.4c34>

CONFERENCE PRESENTATIONS (selection)

1. **Cosso, J.**, & Purpura, D. (2023, June). *The role of parents' math anxiety in the home numeracy environment of Latine families* [Paper presentation]. Mathematical Cognition and Learning Society (MCLS-virtual) annual meeting. Loughborough, U.K.
2. Purpura, D., O'Rear, C., Ellis A., Logan, J., Westerberh, L., King, Y., Vander Tuin, Ehrman, P., Nordgren, Anderson, K., **Cosso, J.**, Zippert, E., Napoli, Hornburg, C., Schmitt, S., Dobbs-Oates, J. (2023, June). *Unique and combined effects of quantitative language and numeracy instruction: Findings and reflections on a registered report* [Paper presentation]. Mathematical Cognition and Learning Society (MCLS) annual meeting. Loughborough, U.K.
3. Ellis, A., O' Rear, C., **Cosso, J.**, Purpura D. (2023, June). *Parents engage in home mathematics activities the least! Examining the frequency of four home learning environment subdomains* [Paper presentation]. Mathematical Cognition and Learning Society (MCLS) annual meeting. Loughborough, U.K.
4. **Cosso, J.**, Purpura, D., & Yoshikawa, H. (2023, April). *Latine families' interactions in numeracy* [Paper presentation]. American Educational Research Association (AERA) annual meeting. Chicago, USA.
5. **Cosso, J.**, Purpura, D., & Yoshikawa, H. (2023, March). *Building a bridge between measurement and Latine families: The case of the home numeracy environment* [Paper presentation]. Society for Research in Child Development (SRCD) biennial meeting. Utah, USA.
6. Ellis, A., O'Real, C., **Cosso, J.**, & Purpura, D. (2023, March). *A preregistered study examining the factor structure of the home learning environment* [Paper presentation]. Society for Research in Child Development (SRCD) biennial meeting. Utah, USA.
7. Purpura, D., O'Rear, C., Ellis, A., Logan, J., Westerberg, L., King, Y., Tuin, M., Ehrman, P., Nordgren, I., Anderson, K., **Cosso, J.**, Zippert, E., Napoli, A., Hornburg, C., Schmitt, S., & Dobbs-Oates, J. (2023, March). *Quantitative language and*

numeracy instruction: Contrasting picture book interventions in preschool [Paper presentation]. Society for Research in Child Development (SRCD) biennial meeting. Utah, USA.

8. **Cosso, J.**, Ellis, A., & Susperreguy, M. I. (2023, January). *Variance in mathematics skills: A multilevel model exploring schools' and students' characteristics* [Paper presentation]. MeMat, Chile.
9. **Cosso, J.**, Purpura, D. (2022, June). *The home mathematics environment of latine families* [Paper presentation]. Mathematical Cognition and Learning Society (MCLS-virtual) annual meeting. Antwerp, Belgium.
10. Purpura D. J., **Cosso, J.**, Beltran Grimm S., Ellis A., & Schmitt S. (2022, May). *Exploring the association of home math environment item and math performance in preschool-aged dual language learners* [Poster presentation]. Society for Research in Child Development (SRCD) constructing the other.
11. **Cosso, J.**, Finders, J. K., Duncan, R. J., Schmitt, S. A., Purpura, D. J. (2021, April). *The home numeracy environment and children's early math skills: The moderating role of parents' math anxiety* [Paper presentation]. Society for Research in Child Development (SRCD-virtual) biennial meeting.
12. **Cosso, J.**, von Suchodoletz, A., & Yoshikaw, H. (2021, April). *Effects of parental involvement programs on young children's academic and social-emotional outcomes: A meta-analysis* [Paper presentation]. Society for Research in Child Development (SRCD-virtual) biennial meeting.
13. Purpura D., Schmitt S., Napoli A., Dobbs-Oates J., King Y., Anaya L., Kung M., Hornburg C., Westerberg L., **Cosso J.**, Borriello G., Bryant L., Litkowski E., Lin J, Rolan E. (2021, April). *A parent-implemented mathematical language picture book intervention with dual language learners* [Paper presentation]. Society for Research in Child Development (SRCD-virtual) biennial meeting.
14. Westerberg, L., Zippert, E., Ellis, A., **Cosso, J.**, King, Y., O'Rear, & Connor, Purpura, D. (2021, April). *Talk spatial to me: Developing a broad measure of receptive spatial vocabulary* [Poster presentation]. Society for Research in Child Development (SRCD-virtual) biennial meeting.
15. **Cosso, J.**, Purpura, D., Maeda, Y., Bofferding, L. (2021, April). *The home mathematics environment of dual-language learner children and their early mathematics skills* [Paper presentation]. American Educational Research Association (AERA-virtual) annual meeting.
16. **Cosso, J.**, Finders, J. K., Duncan, R. J., Schmitt, S. A., Purpura, D. J. (2021, June). *The role of parents' math anxiety in the home environment*. Paper accepted by the

Mathematical Cognition and Learning Society Meeting (MCLS) annual meeting (Conference canceled).

17. **Cosso, J.**, Ellis, A., O'Real, C., Zippert E., Schmitt S., Purpura D.D. (2021, June). *Conceptualizing the factor structure of parents' math anxiety and associations with children's mathematics skills* [Paper presentation]. Mathematical Cognition and Learning Society (MCLS-virtual) annual meeting.
18. **Cosso, J.** (2020, April). *Parents' involvement in children's emerging literacy outcomes*. Paper accepted by the American Educational Research Association (AERA) annual meeting (Conference canceled).
19. **Cosso, J.** (2019, October). *Parents' involvement and children's outcomes* [Paper presentation]. Mid-Western Educational Research Association. Cincinnati, USA.
20. **Cosso, J.** (2019, August) *Parents' involvement in children's emerging literacy outcomes. The case of Bolivia* [Poster presentation]. American Psychological Association (APA).
21. **Cosso, J.** (2019, May). *Experiences with parental engagement, language, and literacy* [Paper presentation]. Latin American Studies Association (LASA). Puerto Rico, USA.
22. **Cosso, J.**, & Yoshikawa, H. (2017, November). *Description and analysis of successful pre-k and kindergarten international programs* [Paper presentation-virtual]. European Association for Research on Learning and Instruction.
23. **Cosso, J.** & Visconti, G. (2016, April). *Congruence between education reforms and social protests: Evidence from 2011 Chilean student movement* [Poster presentation]. Comparative and International Education Society (CIES). Vancouver, Canada.

GRANTS

2023-2024	Social Science Research Institute <u>Project Title:</u> <i>A Culturally Contextualized Measure of the Home Mathematics Environment for Latine Families</i> <u>Role:</u> Principal Investigator <u>Total Costs:</u> \$15,000
2023-2024	Social Science Research Institute <u>Project Title:</u> <i>Listening to Latine Families: Designing Family Math Resources</i> <u>Role:</u> Principal Investigator <u>Total Costs:</u> \$12,500
2023-2024	The Pennsylvania State University, College of Education

Project Title: *Tackling Inequalities by Understanding and Promoting Latine Families Math Experiences*
Role: Principal Investigator
Total Costs: \$10,000

2021 **Purdue University**
Project Title: *Building a Bridge between Measurement and Latine Families: The Home Mathematics Environment*
Role: Principal Investigator
Total Costs: \$500

FELLOWSHIPS & AWARDS

2023-2024 National Science Foundation Quantitative Research Methods for STEM Education Scholars Program. Fellowship
NSF & University of Maryland

Institute on Mixture Modeling for Equity-Oriented Researchers, Scholars & Educators (IMMERSE). Fellowship
Institute of Education Science & U.C. Santa Barbara

2018-2022 Frederick N. Andrews. Fellowship (stipend and full tuition)
Purdue University

2020 Institute in Statistical Analysis: Development of Mathematics Competencies in Early Childhood. Fellowship
NSF-AERA

2018-2020 Graduate Student Travel Award
Purdue University, Graduate School

2016 Scholarship. Award
New York University

2016 UREAG. Award
Comparative and International Education Society (CIES)

2015-2016 Becas Chile. Fellowship (stipend and full tuition)
Conicyt Chile

2007-2009 Academic Excellence Scholarship. Fellowship (stipend)
Argentina Senate

2008 Student Exchange Scholarship. Fellowship (stipend and full tuition)
SCALA

TEACHING

- 2023-2024 **Analysis and Interpretation of Statistical Data in Education.** (Undergraduate; Fall term). The Pennsylvania State University
- 2022-2023 **Principles of Measurement** (Graduate; Spring term). The Pennsylvania State University
Analysis and Interpretation of Statistical Data in Education. (Undergraduate; Fall and Spring terms). The Pennsylvania State University
- 2020- 2021 **Introduction to Quantitative Data Analysis Method in Education II** (Graduate; Summer term. Teaching Assistant). Purdue University
Classroom Assessment (Undergraduate; Fall term. Teaching Assistant). Purdue University
- 2018-2019 **Introduction to Quantitative Data Analysis Method in Education I** (Graduate; Spring term. Teaching Assistant). Purdue University
- 2016-2017 **Social Development** (Graduate; Spring term). Universidad del Desarrollo, Chile
International Activism and Human Rights (Undergraduate; Fall term). New York University
- 2014- 2015 **Teacher Assistant** (pre-K and K; Fall and Spring terms. Teacher Helper). Public School 10, NYC
Human Rights (High School Course; Fall and Spring terms). Wings Academy School, NYC
- 2008-2009 **Sociology and Education** (Undergraduate; Fall term. Teaching Assistant). Universidad Nacional de La Plata

METHODOLOGICAL TRAINING

- 2023 -Quantitative Research Methods. Program directors: Drs. Laura M. Stapleton, Tracy M. Sweet, Gregory R. Hancock. University of Maryland, MD.
-Mixture Modeling. Program directors: Drs. Karen Nylund-Gibson, Katherine Masyn, and Marsha Ing. Santa Barbara, CA.
- 2020 -Institute on Statistical Analysis, AERA-NSF. Program directors: Drs. Doug Clements, Nancy Jordan, and Barbara Schneider. Laguna Beach, CA.
- 2020 -Structural Equation Modeling. Curran-Bauer Analytics: Drs. Daniel Bauer and Patrick J. Curran. Virtual.
- 2019 -Classroom Assessment Scoring System (CLASS) K-3 Certification. Los Angeles, CA.

PROFESSIONAL SERVICE

TO THE FIELD

2022-present **Membership Committee Member**. Providing Opportunities for Women in Educational Research (POWER)
Editorial Board Member at *Contemporary Educational Psychology*
Editorial Board Member at *Journal of Applied Developmental Psychology*
Collaborator MeMat. Pontificia Universidad Católica de Chile
Symposium Organizer. Mathematical Cognition and Learning Society
Ad-Hoc Reviewer: Contemporary Educational Psychology; Journal of Applied Developmental Psychology; British Journal of Educational Psychology; Early Childhood Research Quarterly; Journal of Child and Family Studies; Learning, Culture, and Social Interaction; Journal of Cognitive and Development; Educational Science; School Science and Mathematics; American Educational Research Association; Society for Research in Child Development; National Science Foundation (NSF)

TO THE PENNSYLVANIA STATE UNIVERSITY

University Level

2022-present **Affiliated**, Child Study Center
Affiliated, Parents And Child Together (PACT)
Speaker, College of Education Research Symposium

Program Level

2022-present **Member**, Program Language Proficiency Committee
Member, Admission Committee
Member, Program Assessment Committee
Chair, Graduate Student Recruitment & Development Committee

MENTORSHIP EXPERIENCE

Graduate Students, The Pennsylvania State University

2023-present *Almendra Mendizábal Zepeda*. Adviser
Paola del Campo. Adviser
2022-present *Macy Lynn Pyres*. Committee Member
Anna Yinqi Zhang. Committee Member

Undergraduate Students, The Pennsylvania State University

2023-present *Annalise Chang*. Mentor

PROFESSIONAL EXPERIENCE

2017-2018 Inter-American Development Bank & Fundación Chile, Chile
Director of Research in Educational Policy Division
2016 Inter-American Development Bank, DC
Researcher, Department of Education
2014 Committee for Hispanic Children and Families, NYC
Researcher, Early Care and Education Program
2012-2013 Center for Implementation Public Policy Promoting Equity and Growth, Argentina

2010-2012 *Researcher*
Education 2020, Chile
Director of the Educational Policy Division

PROFESSIONAL AFFILIATIONS

American Educational Research Association (AERA)
 Division C: Learning and Instruction
 Division D: Measurement and Research Methodologies
 Research in Mathematics Education SIG
 Early Education and Child Development SIG
Society for Research in Child Development (SRCD)
 Latino Caucus
American Psychological Association (APA)
 Division 7: Developmental Psychology
 Division 15: Educational Psychology
Mathematical Cognition and Learning Society (MCLS)