

Naomi T. Lin
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RESEARCH INTEREST

P-20 learning and engagement with culturally and linguistically diverse students; early cognitive development translations to early childhood education; music cognition and impacts on early development.

EDUCATION

- 2019- 2024 **University of California, San Diego**
Ph.D. in Education Studies and Cognitive Science
Dissertation: Music as a Component for Strengths Based Learning in Early Development (*Anticipated Completion: December 2024*)
Committee: Dr. Alan J. Daly (co-chair), Dr. Timothy T. Brown (co-chair),
Amanda Datnow, Terry Jernigan, John Iversen
- 2014-2018 **University of California, San Diego**
B.S. in Cognitive and Behavioral Neuroscience
B.A. in Music

RESEARCH EXPERIENCE

- 2024 **Center for Research on Educational Equity, Assessment & Teaching Excellence (CREATE) at UCSD**
Role: Graduate Student Researcher with Dr. Monica Sweet
Conduct data analysis longitudinally in SPSS; produce graphs and visuals;
write grant evaluation reports for NSF funded programs at Birch
Aquarium and Scripps Institution of Oceanography (SIO at UCSD).
- 2023-2024 **Teaching and Learning Commons at UCSD**
Role: Graduate Student Researcher with Dr. April Yan
Presenting and conducting research projects (focus groups, interviews,
longitudinal data sets) and evaluations for equitable pedagogy in online
courses with faculty and undergraduates.
- Lead mixed methods data analysis on various projects using quantitative (ANOVA, t tests, and multiple regression in R, SPSS) and qualitative (MAXQDA and artificial intelligence) methods

2023-2024	<p>National Institute for Transformation and Equity <i>Role: Research Consultant with Dr. Sam Museus</i> Consulting with higher education institutions (conduct focus groups and individual interviews with leadership, present in meetings with provost and DEI vice provosts, writing reports, etc.) to better engage and support faculty, staff, and students</p>
2023	<p>Center for Research on Educational Equity, Assessment & Teaching Excellence (CREATE) at UCSD <i>Role: Graduate Student Researcher with Dr. Monica Sweet</i> Research and evaluation (mixed methods data analysis) on various projects on equity, diversity, and learning in early, elementary, higher education, and teacher development.</p>
2022- 2023	<p>Early Childhood Learning & Development at WestEd <i>Role: Assessment and Research Ph.D. Intern</i> Projects: Desired Results Developmental Profile, First 5 Monterey County, Shared Services Alliance, Childcare and Development Fund</p> <ul style="list-style-type: none"> Analyzing and assessing large data sets (R, SPSS) from multiple sources to explore relationships between preschool characteristics, equitable access, and children’s learning and development Create surveys and manage data collection for state funded program evaluations
2021-2022	<p>the Conscious Kid <i>Role: Research Consultant</i> Consulting in equity and promoting healthy racial identity development, specifically focusing on early childhood projects.</p>
2021-2022	<p>Center for Research on Educational Equity, Assessment & Teaching Excellence (CREATE) at UCSD <i>Role: Graduate Student Researcher with Dr. Monica Sweet</i> Research and evaluation on various projects on equity, diversity, and learning in early, elementary, higher education, and teacher development.</p> <ul style="list-style-type: none"> Collect, clean, analyze data on various projects using quantitative (ANOVA and multiple regression, GLM, HLM and SEM) and qualitative (coding) methods Create reports with visuals to UC Presidents Office, teachers, and funding sources (NSF, private funders, etc.)
2018- current	<p>New Vistas Project <i>Role: Graduate Student Researcher with Dr. Timothy Brown, Research Associate (2018-2019)</i></p> <ul style="list-style-type: none"> Longitudinal research-practice partnership investigating early child cognitive development in TK to first grade in a socioeconomically and linguistically diverse school district.

- Lead data collection and analysis on quantitative and qualitative data (MRI, cognitive assessments, interviews, surveys, and observations) using R, SPSS, Dedoose, and MAXQDA. Present data to practitioners and researchers.

SKILLS

- Qualitative methodologies and analysis (interviews, focus groups, surveys, ethnographic and field observations; MAXQDA, Dedoose)
- Quantitative research analysis (ANOVA, t tests, and multiple regression; R, SPSS, Stata)
- Conducting cognitive and behavioral studies as well as longitudinal studies
- Communicating and collaborating on interdisciplinary teams
- Presenting findings across disciplines including through Research Practice Partnerships with school districts

TEACHING EXPERIENCE

University of California San Diego, Teaching Assistant

Summer 2024	EDS 25 American Higher Education and the Collegiate Experience
Spring 2023	EDS 115 Cognitive Development and Education
Winter 2023	EDS 115 Cognitive Development and Education
Fall 2022	EDS 131 Early Child Development & Education
Spring 2017	COGS 1 Introduction to Cognitive Science

PEER-REVIEWED JOURNAL ARTICLES

In Progress

1. Parra, H.F., Dowling, S.C., Orem, M., **Lin, N.T.**, Jernigan, T., Iversen, J.R., and Brown, T.T., (in progress). Academic Performance Disparities in Literacy and Numeracy Worsened at the Onset of the Pandemic for Children of Lower Maternal Education Households. Manuscript to be submitted to *Developmental Science*.
2. **Lin, N.T.** (in progress). Efficacy of Music Interventions on Promoting Early Academic and Cognitive Development: An Interdisciplinary Systematic Review. Manuscript to be submitted to *Music Education Research*
3. **Lin, N.T.**, Parra, H., Brown, T.T., et.al. (in progress) Early childhood vocal pitch matching: Associations with developing cognitive and academic skills and socioeconomic status. Manuscript to be submitted to *Child Development*

Published

4. Brown, T.T., Dowling, S.C., Orem, M., Gonzalez-Maldonado, D., **Lin, N.T.**, et.al. (June 2024). Vocal pitch matching in early childhood as a relative cognitive strength among low academic performers. *International Journal of Music in Early Childhood*. https://doi.org/10.1386/ijmec_00062_1
5. Jiang, Y., Wishard Guerra, A., Cohen S. R., Brown, T. T., **Lin, N. T.**, Molgaard, M., & Iversen, J. (June 2024). Echoing Parental Scaffolding Style in Co-Constructed Narratives: Its Impact on Executive Function Development in Diverse Early School-Age Children. *Early Education and Development*. <https://doi.org/10.1080/10409289.2024.2360872>

6. **Lin, N.T.**, Molgaard, M., Wishard-Guerra, A., Cohen, S. (May 2023) Young Children and Families' Home Literacy and Technology Practices Before and During COVID-19". *Journal of Early Childhood Research*. <https://doi.org/10.1177/1476718X231164132>
7. Binder, F.J., Jones, C.R., **Lin, N.T.**, et.al. (July 2021). Cognitive cost and information gain trade off in a large-scale number guessing game. *Cognitive Science*.
8. Agrawal, T., Schachner, A., **Lin, N.T.**, et.al. (July 2020). Hearing Water Temperature: Characterizing the development of nuanced perception of auditory events. *Cognitive Science*. Preprint. <https://doi.org/10.31234/osf.io/eb9pj>

FELLOWSHIPS AND GRANTS

2024	UCSD Education Studies Advancement to Candidacy Fellowship Awarded: \$800
2023	UCSD Spring Travel Grant Awarded: \$300
2022	UCSD Education Studies Diversity Fellowship Awarded: \$2,000
2020	UCSD Education Studies Summer Research Fellowship Awarded: \$5,000
2018-2020	Chancellor's Interdisciplinary Collaboratories Fellowship Awarded: \$62,500
2017	Kappa Alpha Theta Zeta Rho Chapter Grant Awarded: \$1,125

AWARDS

2019	National Science Foundation Graduate Research Fellowship Program Honorable Mention
2018	University of California San Diego Integrity Award
2018	Semi Finalist of Fulbright Scholarship
2015- 2018	University of California San Diego Provost Honors

PEER REVIEWED PRESENTATIONS

1. Yan, A., **Lin, N.T.**, Perez, C.M., Flammer, K. (February 2024). Developing Analytics Approaches to Understanding Students' Online Learning. *UC Assessment Conference*
2. Yan, A., Perez, C.M., **Lin, N.T.**, Flammer, K. (November 2024). Developing Analytics Approaches to Understanding Students' Online Learning. *California Association for Institutional Research*.
3. **Lin, N.T.**, Li, H., Perez, C.M., Yan, A. (October 2024). Assessing Student Perceptions and Performance in Digital Learning Spaces through an Equity Lens. *Association for Educational Communications & Technology*.
4. **Lin, N.T.**, (April 2023). Efficacy of Music Interventions on Promoting Early Academic and Cognitive Development: An Interdisciplinary Systematic Review. *American Educational Research Association*.

5. Jiang, Y., Wishard Guerra, A., Cohen, S., Molgaard, M., & **Lin, N.T.** (April 2023). Connecting Home to School: Parents' Use of Evaluative Devices and Transitional-Kindergarteners' Social-Emotional Competence at School. *American Educational Research Association*
6. Jiang, Y., Wishard, A., **Lin, N.T.**, et al. (March 2023). Does Child Vocabulary Mediate the Relationship Between Parental Sensitivity and Child Executive Function? A Mixed Picture. *Society for Research on Child Development Biennial Meeting*.
7. Jiang, Y., Wishard Guerra, A., Cohen, S., Molgaard, M., & **Lin, N.T.** (March 2023). Parent-Child Language Quality in Three Play Activities and its Relation to Children's Language Development *Society for Research on Child Development Biennial Meeting*.
8. Molgaard, M., Wishard, A., **Lin, N.T.**, et al. (March 2023). Colorblind or Color-Conscious: Parent Responses to Young Children's Inquiries of Racial Injustice. *Society for Research on Child Development Biennial Meeting*.
9. **Lin, N.T.**, Wishard-Guerra, A., Brown, T., et al. (September 2022) "Longitudinal Characterization of Parents' Perceptions on 5 to 6 year old's Cognitive and Music Skills". *Society for Research on Child Development A Presidential Special Topics Meeting: Toward a Holistic Developmental Science*. Poster Presentation.
10. Wishard, A., Cohen, S., **Lin, N.T.**, et al. (April 2022) "Understanding Classroom Language Practices over Time Among Socioculturally Diverse Young Children in Transitional Kindergarten". *American Educational Research Association*. Poster Presentation.
11. Wishard, A., Molgaard, M. **Lin, N.T.**, et al. (April 2022) "Parent use of Decontextualized language during parent-child play interactions in early elementary school: cultural variations and links to expressive language development". *Society for Research on Child Development Learning through Play and Imagination*. Poster Presentation.
12. **Lin, N.T.**, Wishard-Guerra, A., Brown, T., et al. (April 2021) "Home Practices during Pre-COVID and COVID Era: Associations with Cognitive Outcomes". *Society for Research on Child Development Biennial Meeting*. Virtual Poster Presentation.
13. Iverson, J., **Lin, N.T.**, Brown, T., et al. (April 2021) "Early Childhood Musical Abilities: Associations with Developing Cognitive and Academic Performance and Socioeconomic Status". *Society for Research on Child Development Biennial Meeting*. Virtual Paper Symposium.
14. **Lin, N.T.**, Wishard-Guerra, A., Brown, T., et al. (April 2021). "Early Academic and Cognitive Development in Relation to Parental Support and Engagement in Children's Learning". *American Educational Research Association*. Virtual Talk.
15. Wishard, A., Cohen, S., **Lin, N.T.**, et al. (November 2020). "Leveraging a Research Practice Partnership to Transform Teaching and Learning in Early Education". *ACF National Research Conference on Early Education*, Virtual Talk.
16. **Lin, N.T.**, Jernigan, T., Wishard-Guerra, A., Brown, T., et al. (September 2020). "Early Childhood Cognitive and Academic Performance: Associations with Developing Singing Abilities and Socioeconomic Status." *Flux International Society for Developmental Cognitive Neuroscience Virtual Congress*. Virtual Talk.
17. Agrawal, T., **Lin, N.T.**, Schachner, A., et al. (July 2020). "Hearing water temperature: Characterizing the development of nuanced perception of auditory events". *Cognitive Science Society Annual Meeting*, Toronto, Canada. Verbal Talk.

INVITED GUEST LECTURES

2023	Reasoning Development and Executive Function <i>Cognitive Development and Education, UC San Diego</i>
2023	Early Language Development <i>Cognitive Development and Education, UC San Diego</i>
2022	Executive Function in Early Childhood <i>Early Child Development & Education, UC San Diego</i>

INVITED KEYNOTES AND PRESENTATIONS

2024	Keynote Panel <i>Instructional Assistant Teaching Symposium, UC San Diego</i>
2024	Assessing and Creating Equitable Digital Learning Spaces <i>Equity Diversity and Inclusion Assessment Day, UC San Diego</i>
2024	Assessing Student Perceptions and Performance in Digital Learning Spaces through an Equity Lens <i>Teaching and Learning Commons: Digital Hub, UC San Diego</i>
2021	Translational and Clinical Aspects of Cognition <i>CSSA National Cognitive Science Virtual Conference, UC San Diego</i>
2021	Using Music to Leverage Learning <i>Teacher Researcher Collaborative, VUSD</i>
2021	Home Learning, Classroom Learning, & Equity Perspectives <i>Teacher Researcher Collaborative, VUSD</i>
2020	Translational and Clinical Aspects of Cognition <i>CSSA National Cognitive Science Conference (COVID-19), UC San Diego</i>

SERVICE

Institution

University of California San Diego

2022 - 2024	PhD Wellbeing Committee Member, Education Studies
2021 - 2022	PhD Cohort Representative, Education Studies
2019 - 2020	EDS Department Representative, Graduate Student Association
2020	Field Research Mentor, UCSD HDS 191
2018	Philanthropy Chair, Kappa Alpha Theta
2016 - 2018	Director, Women SPEAK
2016 - 2018	President, Greeks Gone Green
2014 - 2015	Judicial Board Member, Student Council of Eleanor Roosevelt College

Community

Taiwan

2014	English Teacher, middle school summer program
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PROFESSIONAL MEMBERSHIPS

American Educational Research Association

Cognitive Science Society

Flux International Congress for Integrative Developmental Cognitive Neuroscience

Society for Research in Child Development