

KETING CHEN
SB 508 • 5500 University Pkwy • San Bernardino, CA 92407
Keting.chen@csusb.edu • (909) 537-5485

APPOINTMENTS

2022 – Assistant Professor
Department of Child Development
California State University, San Bernardino

EDUCATION

2022 Ph.D., Human Sciences
Specialization: Child, Youth and Family Studies
University of Nebraska-Lincoln; Lincoln, Nebraska
Dissertation: *Preschoolers' early numeracy skills: Variation in learners, learning environments, and outcomes.*

2015 M.Ed., Early Childhood Education
East China Normal University; Shanghai, China
Thesis: *The framework and the practice of the authentic assessment on 4-5 years old children's mathematical learning.*

2012 B.Ed., Early Childhood Education (major), with distinction
B.Sc., Applied Psychology (minor)
East China Normal University; Shanghai, China
Capstone: *The dialogue after role play: A case study of teacher's scaffolding in children's play and learning.*

RESEARCH & TEACHING INTERESTS

Early STEM education
Cognitive development

Teacher professional development
Early learning environments

GRANT FUNDING

Chen, K. (PI). (2020–2021). The associations between early numeracy environments and young children's numeracy skills. *Buffett Early Childhood Institute Graduate Fellowship*, \$25,000.

<https://buffettinstitute.nebraska.edu/news-and-events/news/buffett-institute-awards-graduate-fellowships-to-two-unl-doctoral-students>

Chen, K. (PI), Xu, S., Ye, L., Du, X., & Hua, Y. (2012–2014). A pilot study: Attitude and frequency of using iPad among young children and parents and the associations with children's cognitive development. *National College Student Innovation and Entrepreneurship Training Program*, 8,000 RMB (approx. \$1,200).

AWARDS AND HONORS

California State University, San Bernardino

2022-2024 Startup grants

University of Nebraska-Lincoln

2021-2022 Frank and Marie Wheeler Scholarship for Outstanding Graduate Mentor
2021 Kappa Omicron Nu-Zeta Alumni Fellowship
2020 Larrick Whitmore Graduate Student Travel Grants
2019 UNL Graduate Student Travel Grants
2018–2019 Department of Child, Youth and Family Studies Travel Grants
2018–2019 College of Education and Human Science Travel Grants
2018 Center of Brain for Brain, Biology and Behavior Travel Grants
2018 Preparing Future Faculty Program
2017 Institute for International Teaching Assistants
2016 Ambassador Scholarship
2015–2017 Edward & Catherine Martin Fellowship
2015 Luella Selover Fellowship

East China Normal University

2014 National Graduate Student Scholarship
2013 ECNU Graduate Students Neng Da Scholarship
2013 Outstanding Graduate Student Leader (*elected*)

TEACHING EXPERIENCE

California State University, San Bernardino

Spring 2023 *Instructor*, CD 2240: Intro to Child Development (*SOTE score: 5.4 out of 6*)
 CD 2260: Early Childhood Development (*SOTE score: 5.5 out of 6*)
 CD 2262: Preschool and School-Aged Activities and Programs
 (*SOTE score: 6 out of 6*)

Fall 2022 *Instructor*, CD 2252: Infant and Toddler Activities and Programs
 (*SOTE score: 5.7 out of 6*)
 CD 3302: History of Childhood (*SOTE score: 5.2 out of 6*)
 CD 6642: Advance Data Analysis of Qualitative Research
 (*SOTE score: 5 out of 6*)

University of Nebraska-Lincoln

Spring 2022 *Instructor*, CYAF 160: Human Development and the Family
Fall 2021 *Graduate Teaching Assistant*, CYAF 160: Human Development and the Family
Fall 2017 *Guest Lecturer*, CYAF 270: Development of the Preschool Child
Summer 2017 *Co-instructor*, CYAF 495: Special Topics in Family and Cultural Diversity
2015–2017 *Graduate Teaching Assistant*, CYAF 374L: Curriculum Planning in Early
 Childhood Education Laboratory, Ruth Staples Child Development Lab School

RESEARCH EXPERIENCE

University of Nebraska-Lincoln

- 2019–2021 *Graduate Research Assistant*, CS for All: Adapt, Implement, Research at Nebraska (NSF Award #1837476), Center for Science, Math & Computer Education. PIs: Leen-Kiat Soh, Gwen Nugent, Wendy Smith, Kent Steen, & Guy Trainin.
Responsibilities: project management, developing and validating video coding schemes, training undergraduate students, data collection and analysis, and preparing manuscripts.
- 2017–2019 *Graduate Research Assistant*, Math Early On Project, Buffett Early Childhood Institute. PIs: Ruth Heaton, Victoria Molfese, & Jennifer Leeper Miller.
Responsibilities: project management, organizing monthly teacher professional development workshops, and in-classroom observations and documentations.
- 2017–2019 *Graduate Research Assistant*, Nature Walk Project, Department of Child, Youth and Family Studies. PIs: Julia Torquati & Anne Schutte.
Responsibilities: project management, data collection, developing and validating video coding schemes, and training undergraduate students.
- 2017–2018 *Secondary Investigator*, “Middle” Project: The Association between Spatial Ability and Math Ability among Children Aged 3 to 6 Years Old, Department of Educational Psychology. PIs: Alexandra Twyman & Anne Schutte.
Responsibilities: project management, training undergraduate student on assessments, participant recruitment, and data collection.
- 2016 *Graduate Research Assistant*, Young Children’s Selection of Materials in Outdoors, Ruth Staples Child Development Lab. PIs: Erin Hamel & Mollie von Kampen.
Responsibilities: project management, data collection and analysis, and manuscript preparation.

East China Normal University

- 2012–2015 *Graduate Research Assistant*, Research on Policies and Mechanisms to Ensure Age-appropriate Children Receive Basic and Quality Early Childhood Education at East China Area. Department of Preschool Education. PI: Liping Guo.
Responsibilities: project management, organizing semi-monthly teacher professional development workshops, and data collection and analysis.

PUBLICATIONS

Peer-Reviewed Articles

- Nugent, G., **Chen, K.**, & Liu, D. (2023). Student computer science self-efficacy, interest, and task value in Grades K-8. In E. Langran, P. Christensen & J. Sanson (Eds.), *Proceedings of Society for Information Technology & Teacher Education International*

Conference (pp. 59-64). Association for the Advancement of Computing in Education. <https://www.learntechlib.org/primary/p/221852/>.

Chen, K., & Hamel, E. (2022). Investigating children's play preferences in outdoor environments using GoPro cameras. *European Early Childhood Education Research Journal*, 2022, 1-23. <https://doi.org/10.1080/1350293X.2022.2108095>

Nugent, G., **Chen, K.**, Soh, LK., Choi, D., Trainin, G., & Smith, W. (2022). Developing K-8 computer science teachers' content knowledge, self-efficacy, and attitudes through evidence-based professional development. *ITiCSE '22: Proceedings of the 27th ACM Conference on Innovation and Technology in Computer Science Education* (pp. 540–546). <https://doi.org/10.1145/3502718.3524771>

Ren, L., **Chen, K.**, & Edwards, C. P. (2017). Ruijiou jiaoyu yanjiu xinjinzhan: jiang shuzi meiti jishu yunying yu ertong de xuexi zhong [New progress in Reggio Emilia approach: Applying technology to children's learning]. *Youer Jiaoyu: Jiaoyu Jiaoxue*, 2017(3), 25–28. <http://www.cqvip.com/qk/80977x/201703/671581049.html>

Chen, K., Guo, L., & Zhao, L. (2015). Dangdai meiguo zaoqi ertong pingjia xitong jiqi qishi [Early Childhood Assessment System in Contemporary America and Its Enlightenment]. *Youer Jiaoyu: Jiaoyu Kexue*, 2015(6), 52–55. <http://www.cqvip.com/qk/89175x/201506/664929465.html>

Nugent, G., **Chen, K.**, & Soh, L. K. (2020). The effectiveness of summer professional development for K-8 computer science teachers. In D. Schmidt-Crawford (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 86–90). Association for the Advancement of Computing in Education. <https://www.learntechlib.org/primary/p/215734/>

Book Chapters

Chen, K. (2020). Youer shuxue nengli de guancha yu pingjia [Observation and evaluation of children's math ability]. In Huang, W. (Eds.), *Youer xingwei guancha yu pingjia* [Observation and evaluation of children's behavior] (pp.66–70). Fudan University Press. [ISBN: 978-7-309-14850-3/B.717](https://www.learntechlib.org/primary/p/215734/)

Book Translations

Eckhoff, A. (2021). *Creative investigations in early engineering and technology* (**K. Chen**, Trans.). Phoenix Education Publishing, Ltd. (Original work published 2018). ISBN: 978-7-5499-9128-0

Carr, M. (2015). *Assessment in early childhood settings: Learning stories* (X. Zhou, N. Zhou, Z. Zuo, L. Zhao, H. Zou & **K. Chen**, Trans.). Education Science Publishing House. (Original work published 2001). [ISBN: 978-7-5191-0312-5](https://www.learntechlib.org/primary/p/215734/)

Applied Publications

Burton, A., Molfese, V. J., Heaton, R., Smith, W., Miller, J. L., **Chen, K.**, & von Kampen, M. (2019). [Infants and toddlers as mathematical thinkers](#). University of Nebraska-Lincoln.

PRESENTATIONS

Peer-Reviewed Presentations

Chen, K., Yao, Y., Roberts, S., & Napoli, A. R. (2023, March 23-25). *Associations among home numeracy environments, childcare numeracy environments, and preschool children's numeracy skills* [Flash Talk]. Society for Research in Child Development, Salt Lake City, UT, United States.

*Gomez, S., Wang, Sen., & **Chen, K.** (2023, March 23-25). *Examining parent-child interactions during math explicit and implicit activities* [Poster Presentation]. Society for Research in Child Development, Salt Lake City, UT, United States.

*Student author

Nugent, G., **Chen, K.**, & Liu, D. (2023, March 13-17). *Student computer science self-efficacy, interest, and task value in grades K-8* [Paper Presentation]. Society for Information Technology & Teacher Education, New Orleans, LA, United States.

Chen, K. & Napoli, A. R. (2022, April 21-26). *Associations between teacher math competency and preschool-aged children's math skills* [Poster presentation]. American Educational Research Associations, San Diego, CA, United States.

Napoli, A. R., **Chen, K.**, & Purpura, D. J. (2021, April 7–9). *Where are the words? An examination of mathematical language words in popular children's books*. In E. Lazaroff (chair), STEM storybooks as a platform for STEM learning [Symposium]. Society for Research Child Development, Minneapolis, MN, United States.

Nugent, G., **Chen, K.**, & Soh, L. K. (2021, April 9–12). *Impact of summer professional development on K-8 computer science teachers' computer science knowledge and attitudes* [Paper presentation]. American Educational Research Association, Orlando, FL, United States.

Nugent, G, **Chen, K.**, & Soh, L. K. (2020, April 6–10). *The effectiveness of summer professional development for K-8 computer science* [Paper presentation]. Society for Information Technology & Teacher Education, New Orleans, LA, United States.

Li, Z., **Chen, K.**, & Xu, J. (2019, October 17–19). *Mediator role of executive attention network and learning approach in the link between SES and kindergarteners' academic performance* [Poster presentation]. Cognitive Development Society, Louisville, KY, United States.

Chen, K., Gondim, F. M., Zhang, Y., Moore, S., Shin, H., Torquati, J. C., & Schutte, A. R. (2019, April 11–12). *The symptom expression of children with autism in natural and urban environments* [Poster presentation]. 67th Annual Nebraska Symposium on Motivation, Lincoln, NE, United States.

Chen, K., & Molfese, V. J. (2019, March 20–23). *Sex differences in growth curve model of early math ability* [Poster presentation]. Society for Research Child Development, Baltimore, MD, United States.

Twyman, A. D., Holden, M. P., **Chen, K.**, Hagstrom, A., Mukherjee, C., & Wassenberg, A. (2018, November 15–18). *The link between children's concept of spatial "middle" and their math performance* [Paper presentation]. 59th Psychonomic Society Annual Meeting, New Orleans, LA, United States.

Chen, K., Molfese, D. L., & Molfese, V. J. (2018, May 24–27). *Brain responses of 5- to 8-year children with varying amount of sleep over 3 weeks discriminate congruent -incongruent judgements in the first 100 ms of a Stroop Task* [Poster presentation]. Association for Psychological Science, San Francisco, CA, United States.

Chen, K., Molfese, D. L., & Molfese, V. J. (2018, April 25). *Varying amount of sleep over 3-weeks influence children's performance* [Poster presentation]. CYFS Summit on Research in Early Childhood, Lincoln, NE, United States.

Chen, K., Miller, J. L., & Molfese, V. J. (2018, April 25). *Teachers report: Toddlers can learn math as well as preschoolers!* [Poster presentation]. CYFS Summit on Research in Early Childhood, Lincoln, NE, United States.

Chen, K., & Li, Z. (2018, April 10–11). *Model comparisons in predicting early math ability* [Poster presentation]. UNL Spring Research Fair, Lincoln, NE, United States.

Hamel, E., von Kampen, M., & **Chen, K.** (2016, August 15–17). *The view from below: Examining children's selection of materials in the outdoor space* [Conference presentation]. Nature-Based Preschool National Conference, St. Paul, MN, United States.

Professional Development Presentations

Napoli, A. R., **Chen, K.**, & Buchheister, K. (2019, November 7–8). *Building quality math education together: Supporting math learning at home and preschool* [Workshop]. Building Quality Hand in Hand, Nebraska Head Start Association, Grand Island, NE, United States.

Chen, K., von Kampen, M., and Rupiper, M. (2016, April 16). *A community of learners* [Workshop]. Celebrating Young Children Conference, Nebraska Association for the Education of Young Children, Omaha, NE, United States.

PROFESSIONAL SERVICE

Editorial Board

2022– Review Editor for Social and Emotional Development in *Frontiers in Developmental Psychology*

Conference Reviewer

- 2022 Society for Research in Child Development Reviewer- Panel 18 School readiness/Childcare
2020 National Research Conference on Early Childhood (NRCEC) reviewer
2019 Society for Research in Child Development Reviewer- Panel 18 School readiness/Childcare

Ad hoc Journal Reviewer

Early Childhood Research Quarterly (2023–)
European Journal of Psychology of Education (2023–)
Current Psychology (2023–)
Children's Geographies (2023–)
Journal of Childhood, Education & Society (2022–)
Journal of Experimental Child Psychology (2022–)
Educational Psychology (2021–)
Journal of Cognition and Development (2020–)
Cognitive Development (2019–)

University Service

- 2023-2025 CSUSB CD Department Evaluation of Adjunct Faculty Committee, Chair
2022-2024 CSUSB CD Department Alumni Board, Member
2022-2024 CSUSB CD Department Awards Committee
2020 UNL Teacher Scholars Academy reviewer
2019–2020 Undergraduate Creative Activities and Research Experience at Nebraska evaluator
2017–2018 UNL Graduate Travel Awards Program (GTAP) reviewer

MEDIA APPEARANCES AND COVERAGE

Jahn, C. (2020, November 6). [UNL grad student researches link between environment, youth numeracy](#). [news release]. *The Daily Nebraskan*.

Green, C. (2020, October 23). [Study explores ways to bolster early childhood numeracy skills](#). [news release]. *Nebraska Today*.

Green, C. (2018, December 6). [Husker researchers examine outdoor effects on children with autism](#). [news release]. *Nebraska Today*.

PROFESSIONAL MEMBERSHIPS

Society for Research in Child Development (2017 –)
Cognitive Development Society (2017 –)

ACADEMIC LINKS

[Google scholar](#) [Faculty Page](#) [Lab page](#)