

CURRICULUM VITAE

University of Idaho

NAME: Shiyi Chen, Ph.D.

DATE: Dec.28th, 2022

RANK OR TITLE: Tenure-Track Assistant Professor of Child Development

DEPARTMENT: Margaret Ritchie School of Family & Consumer Sciences

OFFICE LOCATION AND CAMPUS ZIP: Niccolls 302C, 3183

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DATE OF FIRST EMPLOYMENT AT UI: August 2019

DATE OF TENURE: --

DATE OF PRESENT RANK OR TITLE: August 2019

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D. in Educational Psychology, Florida State University, Tallahassee FL August, 2019

M.S. in Family and Child Development, Missouri State University, Springfield MO May, 2012

B.S. in Early Childhood Education, Shanghai Normal University, Shanghai China June, 2010

Certificates and Licenses: Measurement and Statistics Certificate
Program Evaluation Certificate
Prepare for Future Faculty Certificate

RESEARCH INTERESTS:

Young children's metacognition development
Metacognition and Learning
Early Science Education

EXPERIENCE:

Teaching, Extension and Research Appointments:

2019-present Assistant Professor, School of Family & Consumer Sciences,
University of Idaho, Moscow, ID

2016-2019 Graduate Teaching Assistant, Department of Educational Psychology and
Learning Systems Florida State University, Tallahassee, FL

2012-2016 Graduate Research Assistant, Florida Center for Reading Research,
Tallahassee, FL

TEACHING ACCOMPLISHMENTS:

Areas of Specialization: Educational Psychology, Learning Theories, and Child Development

Courses Taught:

FCS 530/430 Cognition and Motivation in Learning (3cr)
 FCS 404 Positive Behavior Support (3cr)
 FCS 505 Grow to Learn: A Teachers' Professional Development Seminar (1cr)
 FCS 234 Infancy and Early Childhood (3cr)
 FCS 497 Preschool Internship (3cr)
 EDF 4210 Educational Psychology (3cr)

Students Advised

Graduate Major Advisor

Leanna Keleher (MS, FCS, UI), 2022-present
 Kathryn (Nikki) Hodge (MS, FCS, UI), 2022-present
 Rebecca Sermeno (MS, FCS, UI), 2020-present
 Kylie Smith (MS, FCS, UI), 2021

Undergraduate thesis project advisor – McNair Scholar

Abril Correa (BS, Psychology, UI), 2022-present

Graduate Committee

Eddie Walsh (Ph.D., C&I, UI), 2021-present
 William Tai (Ph.D., C&I, UI), 2021-2022

Honors and Awards:

Nominee. Undergraduate Teaching Award (2019)

SCHOLARSHIP ACCOMPLISHMENTS:

Publications:

1 – corresponding or senior author; 2 – designed study; 3 – obtained funding for study; 4 – oversaw conduct of study; 5 – contributing participant in associated workshop or activity; 6 – major role in manuscript preparation

Peer-reviewed, in preparation

Chen, S. & Meize, G, & Dousay, T. (2022). Grow to Learn: A novel teacher's professional development program that targets metacognition to improve early science teaching and learning. Manuscript in preparation. (1,2,3,4,6)

Scheef, A., Bruno, L., & **Chen, S.** (2022). Title to be decided. (6)

Sermeno, R. & **Chen, S.** (2022). Investigating the role of metacognitive awareness in early science education among head start teachers. Manuscript in preparation. (1,2,4,6)

Chen, S., Cerruti, M., Ghandi, M., Tsao, L., & Sermeno, R. (2022). Determining the effect of emotive intelligent spaces on young children's self-regulation and cognitive

performance.

Peer-reviewed, in review

Izci, B., Geesa, R., **Chen, S.**, & Song, H. (Submitted 2022). Daily Routines and Coping Behaviors of Children and Caregivers During the COVID-19 Global Pandemic (2,4,6).

Chen, S., Phillips, B., & Zhang, Q. (Submitted 2022). Which child and teacher characteristics are associated with teacher-child relationship quality in Head Start? Evidence from multilevel modeling. (1,2,3,4,6)

Peer-reviewed, in press or published

Chen, S. & McDunn, B. (2022). Metacognitive control and monitoring in children's learning outcomes. *Learning and Motivation*, 78(9), 101786.

<https://doi.org/10.1016/j.lmot.2022.101786> (1,2,4,6)

Izci, B., Geesa, R., **Chen, S.** & Song, H. (2022). Home learning environments during the covid-19 pandemic: Caregivers' and children's perceptions. *Journal of Research in Childhood Education*. <https://doi.org/10.1080/02568543.2022.2143459> (1,2,4,6)

Chen, S., Geesa, R., Izci, B., & Song, H. (2021). Investigating preservice teachers' science and mathematics teaching efficacy, challenges, and support. *The Teacher Educator*. <https://doi.org/10.1080/08878730.2021.2007560> (1,2,4,6)

Geesa, R., Izci, B., **Chen, S.** & Song, H. (2020) Gender, attitudes, and cognitive skills in fourth and eighth graders' science achievement across three countries. *Asia-Pacific Science Education*, 5(1), 5-17. <https://doi.org/10.1186/s41029-019-0038-7> (2,4,6)

Geesa, R. L., Izci, B., Song, H. S., & **Chen, S.** (2019). Exploring the roles of students' home resources and attitudes towards science in science achievement: a comparison of South Korea, Turkey, and the United States in TIMSS 2015. *Asia-Pacific Science Education*, 5(1), 1-22. <https://doi.org/10.1186/s41029-019-0038-7>(2,4,6)

Geesa, R., Izci, B., Song, H., & **Chen, S.** (2019). Exploring the impacts of home environment on children's mathematics and science achievement: A cross-cultural examination using TIMSS data. *EURASIA Journal of Mathematics, Science and Technology Education*. 15(9), 1-18. <https://doi.org/10.29333/ejmste/108487>(2,4,6)

Chen, S., Phillips, B. & Izci, B. (2018). Teacher-child conflict in Head Start: Exploring roles of children's behavior, teachers' stress and biases, and classroom environment. *Early Child Development and Care*. 190(8), 1174-1186. <https://doi.org/10.1080/03004430.2018.1524378> (1,2,4,6)

Chen, S., & Phillips, B. (2018). Factors that influence preschool teacher-child relationships at Head Start – A pilot study. *Qualitative Review*, 23(1), 80-97. (1,2,4,6)
<https://nsuworks.nova.edu/tqr/vol23/iss1/6>

Philips, B., Tabulda, G., Ingle, S, A., Burris, P, W., Sedgwick, T, K., & **Chen, S.** (2016). Syntax intervention with high-need prekindergarten students: A randomized trial. *Journal of Speech Language and Hearing Research*, 59 (6), 1409-1420. https://doi.org/10.1044/2016_JSLHR-L-15-0155(5,6)

Book Chapters/Proceedings/Outreach/Preprints

Geesa, R., Izci, B., **Chen, S.** & Song, H., (2020). Building Relationships and Collaborating with Others to be Productive Scholars: What We Have Learned Thus Far. *Purdue University Susan Bulkeley Butler Center for Leadership Excellence*, 3(1), 27-36.
[https://www.purdue.edu/butler/working-paper-series/2020/spring.html\(2,4,6\)](https://www.purdue.edu/butler/working-paper-series/2020/spring.html(2,4,6))

Presentations

(* *Presenting author*)

- ***Chen, S.**, Geesa, R., Hyuksoon, S., & Izci, B. (will present in March 2022). Investigating metacognitive awareness' role in early science education among Head Start Teachers. Society for Research in Child Development.
- ***Chen, S.** (will present in March 2022). Grow to Learn: A metacognition-driven early childhood teachers' science professional development. Society for Research in Child Development.
- Izci, B., Geesa, R., Hyuksoon, S., **Chen, S.** (will present in February 2022). Higher education collaboration before, during and after COVID-19: Tips for graduate students and faculty. Eastern Educational Research Association.
- Chen, S.**, Sermen, R., Hodge, N., & Jelliffe, A. Farm to Early Care and Education. (presented in 2022 November).
- Sermen, R. & **Chen, S.** (presented in 2022 April). Investigating Head Start Teachers' Science Teaching Attitude and Self-Efficacy. American Educational Research Association.
- Izci, B., Geesa, R., **Chen, S.**, & Song, H. (presented in 2022 April). Daily Routines and Coping Behaviors of Children and Caregivers During the COVID-19 Global Pandemic. American Educational Research Association.
- Sermen, R. & **Chen, S.** (presented in April 2022). Investigating Head Start Teachers' Science Teaching Efficacy and Attitudes. American Educational Research Association
- ***Chen, S.**, Sermen, R., Tsao, L., & Hewlett, C. (presented in April 2021). Investigating the Role of Metacognitive Awareness' in Early Science Education Among Head Start Teachers. Society for Research in Child Development.
- ***Chen, S.**, Geesa, R., Izci, B., & Song, H. (presented in April 2021). Examining factors related to preservice teachers' science and mathematics teaching efficacy. American Educational Research Association.
- ***Chen, S.**, & Phillips, B. (presented in November 2020). Exploring factors that explain teacher-child relationships in head start: a multilevel approach. National Research Conference on Early Childhood.
- ***Chen, S.**, Geesa, R., Izci, B., & Song, H. (presented in 2020, Feb). A mixed methods investigation of early childhood and elementary preservice teachers' science and math teaching efficacy and perceived challenges. Eastern Educational Research Association, Orlando, FL.
- ***Chen, S.**, & Izci, B. (presented in 2020, Feb). Emergent Metacognition and Teacher-Child Relationships in Early Science Competency Development. Orlando, FL.
- *Chen, S, Phillips, B., & Lonigan, C. (presented in 2019, March). Child social and learning behaviors and school readiness: The mediating role of teacher-child relationship quality. Society of Research in Child Development (2019). Baltimore, MD.
- *Geesa, R., Izci, B., Chen, S. & Song, H., (presented in 2019, April). Gender, attitudes, and

- cognitive skills in fourth and eighth graders' science achievement across three countries. American Educational Research Association (2019). Toronto, Canada.
- *Chen, S. & Phillips, M. (presented 2018, April). Language Instruction in Preschools Serving Children from Disadvantaged Backgrounds: Teachers' Beliefs, Practices, and Challenges. Presentation at American Educational Research Association. New York, NY.
 - *Geesa, R., Izci, B., Song, H., & Chen, S. (presented 2018, April). Exploring the impacts of home environment on children's math and science achievement: A cross-cultural examination using TIMSS data. Presentation at American Educational Research Association. New York, NY.
 - *Chen, S, Phillips, B., & Izci, B. (presented 2017, April). Teacher-child relational conflict in head start – Exploring the roles of child behavior, teacher stress and bias, and classroom environment. Presentation at Society of Research in Child Development. Austin, TX.
 - Izci, B., Jones, I. & Chen, S. (Presented 2017, February). How the home environment predicts children's success in STEM - Insights from TIMSS and beyond. Symposia presentation at 40th Annual Meeting of the Eastern Educational Research Association (EERA)-Richmond, VA.
 - *Chen, S., Phillips, B., & Izci, B. (presented 2016, April). Factors that influence teacher-child relationships at Head Start – Voices from teachers. Presentation at American Educational Research Association. Washington, D.C.
 - Lzci, B., & Chen, S. (presented 2016, February). Investigating parents' attitude towards young children's tablet usage. Presentation at the Eastern Educational Research Association. Hilton Head Island, SC.
 - *Chen, S., Phillips, B., Izci, B. & Franklin, J. (Presented 2015, November). Factors that influence teacher-child relationships at Head Start – Voices from teachers. Presentation at Florida Educational Research Association. Altamonte, FL.
 - Burris, P., Jangra, S., & Chen, S. (Presented 2015, July). Children's book title measure validity among parents of low socioeconomic status. Society for the Scientific Study of Reading. The Big Island, HI.
 - *Chen, S., & Phillips, B. (presented 2015, February). Factors that influence preschool teacher-child relationships at Head Start – A Pilot Study. Presentation at Council on Research in Education conference. Tallahassee, FL.
 - *Chen, S., & Phillips, B. (presented 2015, February). Factors that influence preschool teacher-child relationships at Head Start – A Pilot Study. Presentation at Eastern Educational Research Association. Sarasota, FL.
 - *Chen, S., & Phillips, B. (presented 2014, November). Factors that influence preschool teacher-child relationships at Head Start – A Pilot Study. Presentation at Florida Educational Research Association. Cocoa Beach, FL.
 - *Test, J., & Chen, S. (presented 2014, April). Social cognition in daily life: developmental changes from 12 months to 40 months. Presentation at Council on Research in Education conference. Tallahassee, FL.
 - *Test, J., Chen, S. (presented 2013, October). Social cognition in daily life: Developmental changes from 12 months to 40 months. Presentation at Cognitive Development Society. Memphis, TN.
 - *Chen, S. (presented 2012, October). Protective factors that contribute to child resiliency. Presentation at department colloquium. Tallahassee, FL.
 - *Chen, S. (presented 2012, May). Protective factors that contribute to child resiliency.

Presentation at Inter Discipline Forum. Springfield, MO.

Grants and Contracts Awarded:

- Chen, S (PI),** Agenbroad, A., Tsao, L., Roe, A. (Sep 2021). A Metacognition-Driven Professional Development Program for Educators of Farm to Early Care And Education. Submitted to National Institute of Food and Agriculture (\$500,000)
- Vatanparast, H., Jones, A., Erlandson, M., Haines, J., Siqueira, W., Lane, G., Petryk, S, Tsao, L, & **Chen, S.** (2021). The role of dairy food consumption in optimal growth and development of Canadian children: A longitudinal mixed-method study. Submitted to Dairy Farmers of Canada. (\$399,852)
- Ghandi, M., & Tsao, L., **Chen, S.,** & Cerruti, M. (Oct 2021). Determining the Impact of Emotive Intelligent Spaces on Self-Regulation and Cognitive Performance among Children with ADHD. Submitted to Washington State University Interdisciplinary Collaboration Grant. (\$20,000)
- Chen, S (PI),** Tsao, L., Ghandi, M., & Cerruti, M. (Oct 2020). Determining the Impact of Emotive Intelligent Spaces on Children's Self-Regulation, Working Memory, and Physiological Responses. Submitted to Mountain West IDeA Clinical and Translational Research –Infrastructure Network. (\$60, 000)
- Chen, S (PI).** (Sep 2020). Grow to Learn: A Novel Teachers' Professional Development Program that Targets Metacognition to Improve Early Science Teaching and Learning. Funded by American Psychological Association-Division 15 Educational Psychology. (\$6,000)
- Chen, S (PI).** (March 2018). Exploring Teacher and Child Factors that Influence Preschool Teachers Perceived Relationship with Children Living in Poverty. Funded by Florida State University Dissertation Grant. (\$1,000).
- Chen, S (PI).** Exploring Teacher and Child Factors that Influence Preschool Teachers Perceived Relationship with Children Living in Poverty. Funded by Florida State University Department of Educational Psychology-Learning and Cognition, Graduate Student Research Fund. (\$380).

Grants and Contrasts Pending:

- Chen, S (PI),** Rahimi, S., Mayes, I., Mesa, M., & Ewers, T. (will submit in Jan 2023). Grow to Learn: A Metacognition-driven, Inquiry-based gardening program that focuses on rural early childhood informal STEM learning. Will be submitted to NSF – Advancing Informal STEM Learning (\$1,444,157)

Grants Proposal Unfunded:

- Chen, S (PI).** (2021) Developing and Validating of an Open-Source Computerized Task that Measures Young Children's Metacognition. Submitted to Society for Research in Child Development - Small Grants Program for Early Career Scholars (\$7,500)
- Chen, S (PI),** Tsao, L., & Ewers, T. (Oct. 2020). Rural, lower-income and urban, higher-income families during COVID-19: Towards addressing challenges and reinforcing strengths. Submitted to American Psychological Association-Division 15 Educational Psychology. (\$5, 000)
- Geesa, R (PI), **Chen, S.,** Izci, B., & Hyuksoon. (Dec 2020). Mapping the Uncharted:

- Understanding K-3rd Grade Home-School Education Partnerships During the COVID-19 Pandemic Using a Mixed-Methods Approach. (\$50,000)
 Philips, B (PI) & **Chen, S** (Co-PI). (June 2017). Exploring Teacher and Child Factors that Influence Preschool Teachers Perceived Relationship with Children Living in Poverty. Submitted to Office of Planning, Research and Evaluation, Administration of Children and Families. (\$25,000)
 Philips, B (PI) & **Chen, S** (Co-PI). (November 2017). Exploring Teacher and Child Factors that Influence Preschool Teachers Perceived Relationship with Children Living in Poverty. Submitted to Fahs-Beck Fund for Research and Experimentation. (\$7,500)

Honors and Awards:

- Nominee. Early Career Achievement Award, American Psychological Association-Division 15 Educational Psychology (2022)
 Nominee. Society for Research in Child Development Outstanding Doctoral Dissertation Awards (2020)
 Awardee. Purdue University Susan Bulkeley Butler Center for Leadership Excellence Fellowship (2019).
 Awardee. Florida State University Graduate Student Research and Creativity Award (2019)
 Awardee. Society for Research in Child Development Conference Travel Award (2019).
 Awardee. American Educational Research Association Conference Travel Scholarship (2018)
 Awardee. Council on Research in Education travel award (2018).
 Awardee. Learning and Cognition Graduate Research Award (2017).
 Finalist. College of Education Three Minutes Thesis (2018)
 Finalist. Robert M. Gagné Research Prize (2017)

SERVICE:

Major Committee Assignments:

- Chair, FCS Graduate Program Committee (Sep. 2021 – Present)
 Member, FCS Scholarship Committee (Jan. 2021 - present)
 Member, FCS Recruitment Committee (Jan. 2021 - present)
 Chair, University of Idaho Honor Program Advisory Board Committee (Oct. 2020 – Jan. 2021)
 Member, University of Idaho Honor Program Advisory Board Committee (Aug. 2020 – present)
 Member, Faculty promotion committee, School of Family & Consumer Sciences, University of Idaho (2019-present).
 Member, Graduate Program Committee, School of Family & Consumer Sciences, University of Idaho (2019-present).

Professional and Scholarly Organizations:

- Ad hoc reviewer, National Science Foundation (2022) NSF/NSFC Joint Research on Sustainable Regional Systems (SRS)
 Speaker and organizer, University of Idaho Child Development Conference (2022)
 Reviewer, Psychology in the Schools (2022)
 Reviewer, Journal of Florida Educational Research (2021)
 Secretary, Infinite Capacity Maker (Former STEM Integrations) LLC (2020-present)

Guest speaker, Research and Faculty Development Grant Writing Series (2021)
 Reviewer, Journal of Science Education and Technology (2020)
 Reviewer, Society for Research in Child Development 2021 Biennial Meeting (SRCD)
 (2020)
 Grant review panelist, National Science Foundation. (Oct. 2019)
 Reviewer, 41th Annual Meeting of the Eastern Educational Research Association (EERA)
 (2018)
 Reviewer, 62nd Annual Meeting of the Florida Educational Research Association (FERA)
 (2017)
 Volunteer Session Chair at EERA conference (2015)
 Volunteer at CORE conference (2014)

PROFESSIONAL DEVELOPMENT:

Teaching:

2021 Success Beyond the Classroom: How tutoring and peer-assisted study (SI-PASS) can help your students succeed, University of Idaho
 2021 Authentic assessment with emerging technology , University of Idaho
 2020 Leading Effective Discussions in (Big) HyFlex Classes, University of Idaho
 2020 Keeping it Inclusive, Keeping it Accessible, University of Idaho
 2020 Engaging Students: Creative Alternatives, University of Idaho
 2020 What do I tell my students, part 2: Common syllabus language for a flexible fall | Healthy Vandals Syllabus Policies | Syllabus Checklist, University of Idaho
 2020 Creating Significant Learning Experiences, University of Idaho
 2020 Building a One-Stop Shop for your Class, University of Idaho
 2019 Advisory Symposium, University of Idaho
 2018 How to Teach Sensitive Topics, American Educational Research Association (AERA)
 2017 Engaging Students in Large Classes, Florida State University (FSU)
 2017 Emergency Management in the Classroom, FSU
 2017 Tips and Techniques for Efficient Grading, FSU
 2017 Mindfulness in the Classroom, When and How, FSU
 2017 New Professor: Balancing Research, Teaching, and Service, Society of Research in Child Development (SRCD)
 2017 Designing Assignments Using Bloom's Taxonomy, FSU

Scholarship:

2022 Research Leadership Development Program, Research and Faculty Development, University of Idaho.
 2021 Scientific Writing Professional Development Program, University of Idaho
 2020 Mountain West Clinical and Translational Research-Infrastructure Network (MW CTR-IN) Funding Opportunities
 2020 NSF Research Traineeship (NRT) Program
 2020 Proposal Development Academy, University of Idaho
 2019 NSF CAREER all year
 2019 Pre-Tenure Faculty Conference, Purdue University
 2019 Early STEM Education Summit, Boise State University
 2019 NSF career all year: An Introduction, University of Idaho
 2019 Finding Funding Opportunities: Intro to Pivot, University of Idaho

2019 Multilevel Data Analysis, SRCD Conference
2019 NIH/IES Grant Opportunities, SRCD Conference
2019 Junior Scholar Workshop, SRCD Conference
2018 R Programming and Data Analysis, FSU
2018 Reliability Issues in Mixed Methods Research, AERA Conference
2018 Navigate Academia, AERA Conference