

## Linlin Luo

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Harrington Tower 355  
Texas A&M University  
College Station, TX 77840  
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### EDUCATION

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- Ph.D. Educational Psychology, University of Nebraska-Lincoln 2018  
*Advisor:* Kenneth A. Kiewra  
*Specialization:* Developmental and Learning Sciences  
*Dissertation:* Helping Students SOAR to Success on Synthesis Writing
- M.S. Statistics, University of Nebraska-Lincoln 2011  
*Advisor:* Julia N. Soulakova  
*Specialization:* Biomedical and Pharmaceutical Statistics  
*Masters Project:* Sample Size Estimation in Combination Drug Efficacy Studies
- B.A. Insurance, Southwestern University of Finance and Economics, China 2008  
*Concentration:* Actuarial Science

### PROFESSIONAL APPOINTMENTS

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- Research Scientist** 2024–present  
Texas A&M University  
Department of Teaching, Learning, and Culture
- Postdoctoral Research Associate** 2023–2024  
Texas A&M University  
Department of Teaching, Learning, and Culture
- Assistant Professor (Akademische Rätin)** 2021–2023  
University of Regensburg (Germany)  
Department of School Research, Development, and Evaluation  
Institute of Educational Sciences
- Postdoctoral Research Associate (Wissenschaftliche Mitarbeiterin)** 2018–2021  
University of Regensburg (Germany)  
Department of School Research, Development, and Evaluation  
Institute of Educational Sciences

### GRANT EXPERIENCE

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- Kansas State University, GP-IDEA Impact Grant, **Co-PI**. (2017). *Helping students SOAR to success on synthesis writing: An investigation of SOAR strategies for synthesis writing*. PI, Kenneth Kiewra. \$8,424, awarded.

## PUBLICATIONS

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24. Stoeger, H., **Luo, L.**, & Ziegler, A. (2024). Attracting and developing STEMM talent towards excellence and innovation. *Annals of New York Academy of Sciences*. Online First. <https://doi.org/10.1111/nyas.15108>
23. Li, P., Zhang, Z. S., Hopp, M. D. S., **Luo, L.**, & Wang, C. (in press). Is stereotypical masculinity and femininity in women associated with their creativity? An examination of gender roles and creativity. *Psychology of Aesthetics, Creativity, and the Arts*.
22. **Luo, L.**, & Stoeger, H. (2023). Developing eminence in STEMM: An interview study with talent development and STEMM experts. *Annals of New York Academy of Sciences*, 1521(1), 112–131. <https://doi.org/10.1111/nyas.14968>
21. **Luo, L.**, & Stoeger, H. (2023). Unlocking the transformative power of mentoring for youth development in communities, schools, and talent domains. *Journal of Community Psychology*, 51(8), 3067–3082. <https://doi.org/10.1002/jcop.23082>
20. Ziegler, A., **Luo, L.**, & Stoeger, H. (2023). Equity gaps in literacy among elementary school students from two countries: The negative social resonance effect of intersectional disadvantage and the dampening effect of learning capital. *Education Sciences*, 13(8), 827. <https://doi.org/10.3390/educsci13080827>
19. Stoeger, H., Balestrini, D. P., **Luo, L.**, & Ziegler, A. (in press). Mentoring for individualized talent support: Developmental background and practical implementation. In A. J. M. Hoogeveen, K. Verschueren, E. Kroesbergen, & C. O'Reilly (Eds.), *European Handbook on Giftedness and Talent Development*.
18. **Luo, L.**, Stoeger, H., & Subotnik, R. F. (2022). The influences of social agents in completing a STEM degree: An examination of female graduates of selective science high schools. *International Journal of STEM Education*, 9, 7. <https://doi.org/10.1186/s40584-021-00324-w>
17. Kiewra, K. A. & **Luo, L.** (2022). Applying SOAR strategies to curb digital distractions while note taking and studying. In A. E. Flanigan & J. Kim (Eds.), *Digital Distractions in the College Classroom* (pp. 161–188). IGI Global. <https://doi.org/10.4018/978-1-7998-9243-4.ch008>
16. **Luo, L.**, & Kiewra, K. A. (2021). Parents' roles in talent development. *Gifted Education International*, 37(1), 30–40. <https://doi.org/10.1177/0261429420934436>
15. Kiewra, K. A., **Luo, L.**, & Flanigan, A. E. (2021). Educational psychology early career award winners: How did they do it? *Educational Psychology Review*, 33(4), 1981–2018. <https://doi.org/10.1007/s10648-021-09619-4>
14. Colliot, T., Kiewra, K. A., **Luo, L.**, Flanigan, A. E., Lu, J., Kennedy, C., & Black, S. (2021). The effects of graphic organizer completeness and note-taking medium on computer-based learning. *Education and Information Technologies*, 27(2), 2435–2456. <https://doi.org/10.1007/s10639-021-10693-y>
13. Kiewra, K. A., **Luo, L.**, Lu, J., & Colliot, T. (2020). Learning strategies that help students SOAR to success. In L. Zhang (Ed.), *Oxford Encyclopedia of Educational Psychology*.

Oxford University Press.

<https://doi.org/10.1093/acrefore/9780190264093.013.868>

12. **Luo, L.**, & Kiewra, K. A. (2019). Soaring to successful synthesis writing: An investigation of SOAR strategies for college students writing from multiple sources. *Journal of Writing Research, 11*, 163–209. <https://doi.org/10.17239/jowr-2019.11.01.06>
11. **Luo, L.**, & Kiewra, K. A. (2019). A SOAR-fired method for teaching synthesis writing. IDEA paper #74. The IDEA Center. <files.eric.ed.gov/fulltext/ED594168.pdf>
10. Subotnik, R. F., Stoeger, H., & **Luo, L.** (2019). Exploring compensations for demographic disadvantage in science talent development. *New Directions for Child and Adolescent Development, 168*, 101–130. <https://doi.org/10.1002/cad.20321>
9. **Luo, L.**, Kiewra, K. A., Flanigan, A. E., & Peteranetz, M. S. (2018). Laptop versus longhand note taking: Effects on lecture notes and achievement. *Instructional Science, 46*, 947–971. <https://doi.org/10.1007/s11251-018-9458-0>
8. Heilemann, M., **Luo, L.**, Ziegler, A., & Stoeger, H. (2018). A dictionary-based approach to measure STEM-related communication in online mentoring. *Chronicle of Mentoring & Coaching, 2*(1), 440–446.
7. Nugent, G., Kunz, G. M., Houston, J., Wu, C., Patwardhan, I., ..., & **Luo, L.** (2018). The effectiveness of technology-delivered science instructional coaching in middle and high school. *Journal of Science Teacher Education, 1*–25. <https://doi.org/10.1080/1046560X.2018.1514193>
6. **Luo, L.**, Kiewra, K. A., Peteranetz, M. S., & Flanigan, A. E. (2016). Using eye-tracking technology to understand how graphic organizers aid student learning. In C. A. Was, F. J. Sansosti, & B. J. Morris (Eds.), *Eye-tracking technology applications in educational research* (pp. 220–238). IGI Global. <https://doi.org/10.4018/978-1-5225-1005-5.ch011>
5. Flanigan, A. E., Kiewra, K. A., & **Luo, L.** (2016). Conversations with four highly productive German educational psychologists: Frank Fischer, Hans Gruber, Heinz Mandl, and Alexander Renkl. *Educational Psychology Review, 30*, 303–330. <https://doi.org/10.1007/s10648-016-9392-0>
4. Kiewra, K. A., Flanigan, A. E., **Luo, L.**, & Peteranetz, M. S. (2016). Teaching learning theories: A SOAR driven approach. In M. C. Smith & N. DeFrates-Densch (Eds.), *Challenges and Innovations in Educational Psychology Teaching and Learning* (pp. 29–44). Information Age Publishing, Inc.
3. **Luo, L.**, Kiewra, K. A., & Samuelson, L. (2016). Revising lecture notes: How revision, pauses, and partners affect note taking and achievement. *Instructional Science, 44*, 45–67. <https://doi.org/10.1007/s11251-016-9370-4>
2. **Luo, L.**, Peteranetz, M. S., Flanigan, A. E., Witte, A. L., & Kiewra, K. A. (2014). Eyes never lie: Eye-tracking technology reveals how students study displays. *Nebraska Educator, 1*, 60–77. [digitalcommons.unl.edu/nebeducator](http://digitalcommons.unl.edu/nebeducator)

1. Soulakova, J. N., & **Luo, L.** (2013). Large sample tests for simultaneous comparison to multiple controls in terms of binominal proportions. *Journal of Biopharmaceutical Statistics*, 23, 589–603. <https://doi.org/10.1080/10543406.2012.756498>

### **OTHER CONTRIBUTIONS**

- Kiewra, K. A., **Luo, L.**, & Flanigan, A. E. (2022). How to be a productive scholar: Advice on research and writing from academics who experienced early publishing success. *The Chronicle of Higher Education*. <https://www.chronicle.com/article/how-to-be-a-productive-scholar>
- Stoeger, H., **Luo, L.**, & Balestrini, D. P. (2020). *Effective and sustainable online mentoring for STEMM talent development*. Proceedings of the 2019 Regensburg International Expert Meeting. [https://globaltalentmentoring.org/wp-content/uploads/2020/10/Regensburg-2019-IEM-Proceedings\\_Web-simplified.pdf](https://globaltalentmentoring.org/wp-content/uploads/2020/10/Regensburg-2019-IEM-Proceedings_Web-simplified.pdf)
- Luo, L.** & Balestrini, D. P. (2019). Global talent mentoring: A new virtual online talent development resource for the world. *Nurturing Talents APFG Newsletter, Special Issue on STREAM Education for Gifted Students in Asia-Pacific*, 6(2).
- Nugent, G., Kunz, G., Houston, J., Kalutskaya, I., Wu, C., Pedersen, J., Lee, S., DeChenne, S. E., **Luo, L.**, & Berry, B. (2016). The effectiveness of technology-delivered science instructional coaching in middle and high school (R<sup>2</sup>Ed Working Paper No. 160602). Retrieved from the National Center for Research on Rural Education: [r2ed.unl.edu](http://r2ed.unl.edu)
- DeChenne, S. E., Nugent, G., Kunz, G. M., **Luo, L.**, Berry, B., Craven, K., & Riggs, A. (2014). Coaching in a science, technology, engineering, and math professional development experience: A case study (R<sup>2</sup>Ed Working Paper No. 2014-7). Retrieved from the National Center for Research on Rural Education: [r2ed.unl.edu](http://r2ed.unl.edu)

### **MANUSCRIPTS UNDER REVIEW AND IN PREPARATION**

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- Luo, L.**, Tise, J., Patterson, M. S., Alge, D. L., & Hernandez, P. R. (under review). Birds of a feather self-regulate together.
- Lunsford, L. G., **Luo, L.**, & Stoeger, H. (under review). The influence of national culture on the initiation of mentoring in a STEMM talent development program: A qualitative study on mentors' perspectives.
- Luo, L.**, Zhang, Q., & Hernandez, P. R. (in preparation). Mentorship and time management: A synergistic approach to supporting academic achievement.

### **PRESENTATIONS**

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#### **PRESENTATIONS AT PROFESSIONAL MEETINGS**

34. **Luo, L.**, Lunsford, L. G., & Stoeger, H. (2024, April). *Mentors' perspectives on national culture and mentoring in STEMM: An exploratory study through qualitative interviews*. American Educational Research Association, Philadelphia, PA.

33. Li, P., Zhang, Z., Hopp, M., & **Luo, L.** (2023, October). *Is masculinity in women associated with their creativity? An examination of gender roles and creativity*. International Conference on the Development and Education of Supernormal Children, 45<sup>th</sup> Anniversary Conference of Research and Education for Gifted and Talented Children, Beijing, China.
32. Emmerdinger, K., **Luo, L.**, Mader, M., Balestrini, D. P., & Stoeger, H. (2021, October). *Planning and implementing best-practice mentoring programs for high-achieving, highly motivated children and youths in scholastic and extracurricular programs*. 1st World Giftedness Center International Conference, Dubai, United Arab Emirates.
31. **Luo, L.**, Colliot, T., ..., Black, S. (2020, September). *How graphic organizer and note taking impact achievement*. European Association for Research on Learning and Instruction (EARLI) SIG 2 Comprehension of Text and Graphics, Prague, Czech Republic.
30. **Luo, L.**, Mader, M., & Stoeger, H. (2019, April). *Planning individualized learning pathways for mentoring talented STEM students*. The 6th Biennial International Research Association for Talent Development and Excellence Conference, Taipei.
29. **Luo, L.**, Subotnik, R. F., & Stoeger, H. (2018, October). *Mentors' impact on majoring in STEM for students with or without a parent in a STEM field*. The 11th Annual Mentoring Conference, Albuquerque, NM.
28. Heilemann, M., **Luo, L.**, Ziegler, A., & Stoeger, H. (2018, October). *A dictionary-based approach to measure STEM-related communication in online mentoring*. The 11th Annual Mentoring Conference, Albuquerque, NM.
27. Subotnik, R. F., Stoeger, H., & **Luo, L.** (2018, October). *Seeking alternative contributions to family culture for gifted students in STEM*. The 2nd American-European Summit on Talent Development, Nuremberg, Germany.
26. **Luo, L.**, & Kiewra, K. A. (2018, April). *Helping students SOAR to success on synthesis writing*. American Educational Research Association, New York City, NY.
25. Nugent, G., Kunz, G. M., Houston, J., **Luo, L.**, Peterson, D., & Lindner, S. (2018, March). *Analysis of effective science coaching: What, why, and how*. NARST Annual International Conference, Atlanta, GA.
24. Zeleny, M., **Luo, L.**, Larsen, L., Takagi, M., Wang, S., Graham, K., Yu, M., & Bruning, R. (2017, April). *Reflecting on papers past: What college students' recollections tell us about their growth as writers*. American Educational Research Association, San Antonio, TX.
23. Flanigan, A. E., Kiewra, K. A., & **Luo, L.** (2016, October). *Conversations with four highly productive German educational psychologists: Insights on productivity*. Mid-Western Educational Research Association, Evanston, IL.
22. Kiewra, K. A., Flannigan, A. E., **Luo, L.**, & Peteranetz, M. S. (2016, October). *Teaching learning theories: A SOAR-driven approach*. Midwestern Educational Research Association, Evanston, IL.

21. **Luo, L.**, Kiewra, K. A., & Flanigan, A. E. (2016, October). *Using eye-tracking technology to understand how graphic organizers aid student learning*. Mid-Western Educational Research Association, Evanston, IL.
20. **Luo, L.**, Kiewra, K. A., Flanigan, A. E., Parr, D., & Peteranetz, M. S. (2016, October). *Laptop versus longhand note taking: Effects on notes and achievement*. Mid-Western Educational Research Association, Evanston, IL.
19. **Luo, L.**, Samuelson, L., & Kiewra, K. A. (2014, April). *Revising lecture notes: The effects of revision, pauses, and partners on note taking and achievement*. American Educational Research Association, Philadelphia, PA.
18. **Luo, L.**, Peteranetz, M. S., Flanigan, A. E., Witte, A. L., & Kiewra, K.A. (2013, November). *An eye-tracking investigation of how students study a matrix*. CEHS Student Research Conference, Lincoln, NE.
17. DeChenne, S. E., Nugent, G., Kunz, G. M., **Luo, L.**, Berry, B., Craven, K. (2012, April). *A case study in coaching in science, technology, engineering, and math professional development*. American Educational Research Association, Vancouver, BC.
16. **Luo, L.** & Kiewra, K. A. (2012, April). *Revising lecture notes: The effects of pauses and partners on note taking and achievement*. CEHS Showcase, Lincoln, NE.
15. **Luo, L.**, Witte, A., Kiewra, K. A., Dubbs, M., & Flanigan, A. E. (2012, April). *Eyes never lie: Using eye-tracking technology to reveal text study methods*. CEHS Showcase, Lincoln, NE.
14. **Luo, L.** & Soulakova, J. N. (2010, March). *On sample size estimation in combination drug efficacy studies*. Annual Meeting of International Biometric Society. New Orleans, LA.

#### **INVITED PRESENTATIONS**

13. **Luo, L.** (2024, March). *Multi-modal measurement: Case study in student self-regulation and learning*. University of Georgia, Athens, GA.
12. **Luo, L.** (2024, February). *Self-regulated learning: Overview of concept and applications*. Chinese Autism Resources and Empowerment Services (CARES). Online.
11. **Luo, L.** (2023, July). *Influences of individual and environmental factors in talent development in STEMM*. University of Freiburg, Germany.
10. **Luo, L.**, & Balestrini, D. P. (2022, March). *Mentoring for outstanding, highly motivated youths: Global Talent Mentoring as a case in point*. Mentoring Channel. Online.
9. **Luo, L.** (2019, October). *What is university? Perspectives of an international scholar*. University of Regensburg, Germany.
8. **Luo, L.** (2018, November). *What is university? Welcome talk to new university students*. University of Regensburg, Germany.
7. **Luo, L.** (2017, September). *Active reading in college*. William H. Thompson Scholars, Lincoln, NE.

6. **Luo, L.** (2017, June). *Helping students SOAR to success on synthesis writing*. University of Freiburg, Germany.
5. **Luo, L.**, Kiewra, K. A., & Flanigan, A. E. (2017, June). *Breaking from tradition: Two note taking studies*. University of Freiburg, Germany.
4. Flanigan, A. E., Kiewra, K. A., & **Luo, L.** (2017, June). Factors that aid research productivity: Similarities and differences across cultures. University of Freiburg, Germany.
3. **Luo, L.** (2015, March). *Studying in the United States*. Xi'an Jiaotong University, Xi'an, China.
2. **Luo, L.** (2014, August). *Cultural differences between the U.S. and China*. Doane College, Crete, NE.
1. **Luo, L.** (2013, September). *Note taking and academic success strategies*. William H. Thompson Scholars, Lincoln, NE.

## OTHER MEDIA

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### **MEDIA COVERAGE**

2019 Could artificial intelligence automate student note-taking? ([EducationWeek](#))

2023 Rage, rage against the uniformity of time ([GlobalTalentMentoring](#))

## RESEARCH EXPERIENCE

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Department of Teaching, Learning, and Culture, Texas A&M University

**Project: Promoting Geoscience Research, Education & Success** 2023–present  
**Research Scientist**

*Focus: Research mentoring, STEMM education, self-regulated learning, longitudinal research*

Department of School Research, Development, and Evaluation, University of Regensburg (Germany)

**Project: Global Talent Mentoring** 2018–2023  
**Area Coordinator, Program Experience and Research**

*Focus: Talent development, STEM education, academic mentoring, mixed-method research*

Buffet Early Childhood Institute, University of Nebraska

**Project: Early Childhood Risk Assessment** 2017–2018  
**Graduate Research Assistant**

*Focus: Early childhood risk assessment, program evaluation*

Nebraska Center for Research on Children, Youth, Families, and Schools

**Project: Analysis of Effective Science Coaching: What, Why and How** 2017  
**Graduate Research Assistant**

*Focus: Online instructional coaching, science education, mixed-method research*

Social and Behavioral Sciences Research Consortium, University of Nebraska

**Project: Effectiveness of Science Teacher Training** 2016  
**Graduate Research Assistant**

*Focus: Science education, teacher training program evaluation, qualitative research*

American Exchange Center, University of Nebraska/Xi'an JiaoTong University  
**Project: Evaluation of The Elite Mathematics and Engineering Program** 2015

**Consultant**

*Focus: In-depth interviews, STEM education, program evaluation*

Nebraska Center for Research on Children, Youth, Families, and Schools 2011–2014

**Project: CSI: Coaching Science Inquiry in Rural Schools**

**Graduate Research Assistant**

*Focus: Science education, professional development, online instructional coaching*

Department of Statistics, University of Nebraska 2009–2010

**Project: Efficacy of Combination Drugs**

**Graduate Research Assistant**

*Focus: Simulation and power analysis*

## **TEACHING EXPERIENCE**

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Department of School Research, Development, and Evaluation, University of Regensburg  
**Instructor of Record** 2021–2023

Seminar: Classroom Management

Seminar: Learning Theories and Classroom Implications

Seminar: Effective Learning Strategies

Department of Department of Educational Psychology, University of Nebraska  
**Instructor of Record** 2013–2017

EDPS 457: Learning and Motivation

EDPS 362: Learning in the Classroom

EDPS 209: Strategies for Academic Success

Department of Statistics, University of Nebraska  
**Graduate Teaching Assistant** 2010

STAT 380: Statistics and Applications

Lincoln Public Schools, Lincoln, Nebraska  
**Para Educator** 2009

## **SERVICE EXPERIENCE**

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### **Editorial Service**

**Guest Co-Editor** for *Journal of Community Psychology* Special Issue: Effective Mentoring for Youths in Schools and Communities, Vol. 51, Issue 8, 2022/2023

**Guest Co-Editor** for *Annals of the New York Academy of Sciences* Special Issue: STEMM Talents' Learning Pathways from Early Interests to Expertise and Innovation: Concepts, Empirical Findings, and Best Practices, 2023/2024

### **Peer Review Service**

#### **Ad hoc Reviewer**

*Journal of Educational Psychology*  
*Journal of Experimental Education*  
*Educational Psychology Review*  
*Review of Educational Research*  
*Applied Cognitive Psychology*  
*Applied Research in Memory and Cognition*  
*International Journal of STEM Education*  
*CBE – Life Sciences Education (LSE)*  
*Written Communication*  
*Journal of English for Academic Purposes*  
*Education Sciences*  
*European Journal of Training and Development*  
*Gifted and Talented International*  
*Gifted Child Today*  
*The Chronicle of Mentoring and Coaching*

### **University and Departmental Service**

**Expert Meeting Organizing Committee**, International Expert Meeting for Global Talent Mentoring, Regensburg, Germany, 2019, 2022–2023

**Board Member**, Cognition, Learning, and Development Program, Department of Educational Psychology, University of Nebraska, 2012–2013, 2015–2017

**Guest Speaker Coordinator**, 2017

**Student-Faculty Liaison**, 2015–2016

**Vice President**, 2012–2013

**Treasurer**, International Student Fellowship, University of Nebraska, 2010–2015

**Student Consultant**, Department of Statistics, University of Nebraska, 2009–2010

### **HONORS AND AWARDS**

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Promotion of Female Scientists Fund, University of Regensburg, 2021–2022, 2022–2023

International Seed Grant Travel Fund, University of Nebraska, 2015, 2017

Educational Psychology Department Travel Award, University of Nebraska, 2014, 2016

Wolfe New Graduate Student Fellowship, University of Nebraska, 2011–2013

Institute of Agriculture and Natural Resources Research Travel Fund, University of Nebraska, 2010

Honorable Mention, Outstanding Graduate Research Assistant Award, University of Nebraska, 2010

Outstanding Student Award, Southwestern University of Finance and Economics, 2004–2007

China Pacific Insurance Company-Taiwan Guanghua Scholarship, Southwestern University  
of Finance and Economics, 2005–2006  
University Entrance Achievement Award, Southwestern University of Finance and  
Economics, 2004

**STATISTICAL AND ANALYTICAL SOFTWARE**

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SPSS, MAXQDA, Mplus, Stata, R, Tableau, SAS, EXCEL