MIKYUNG SHIN

Assistant Professor, Dept of Special Education, Illinois State University

🎓 EDUCATION

2013.08 | 2009.08

PhD, Special Education, Learning Disabilities and Behavior Disorders

The University of Texas at Austin, Austin, TX

· **Dissertation**: Effects of a web-based strategic, interactive computer application (Fun Fraction) on the performance of middle school students with learning disabilities in solving word problems with fractions and multiplication. https://mshin77.net/Shin.2013.pdf

2009.05 | 2007.08

MA, Special Education, Learning Disabilities and Behavior Disorders

The University of Texas at Austin, Austin, TX

· **Thesis**: The interactive behaviors and perceptions of Korean English language learners in collaborative strategic reading. https://mshin77.net /Shin.2009.pdf

2006.02 | 2000.03

BA, Special Education & English Language and Literature

Ewha Womans University, Seoul, Republic of Korea

· **Thesis**: Changes in Macbeth's personality and how external factors affect him. https://mshin77.net/Shin.2006.pdf

📖 CERTIFICATION

Current | 2013

Texas Education Agency, Texas, USA

Special Education Grades (EC-12)
Generalist Grades (EC-6)
Mathematics Grades (4-8)
Mathematics Grades (EC-12)

Current | 2006

Ministry of Education and Human Resource Development, Seoul, Republic of Korea

Special Education Teacher (Elementary Education)
English Teacher (Secondary Education)

2020 | 2016

Korea Learning Disabilities Association, Seoul, Republic of Korea

First-Level Learning Disabilities (Dyslexia) Specialist

CONTACT

250 S. University St
DeGarmo 539
Normal, IL 61761

Campus Box 5910
Normal, IL 61790

🔗 https://www.mshin77.net
🐦 twitter.com/mshin_77
in mikyung-shin-47951b67
github.com/mshin77
✉ mshin2@ilstu.edu
📞 (309) 438-8702

STATISTICAL AND COMPUTING SKILLS

Statistical Analysis: Visual analysis, meta-analysis, multilevel model, generalized linear model, Bayesian model

Machine Learning: Natural language processing, text mining, deep learning, network analysis, large language models

Statistical Software+: SAS, Mplus, Stata, SPSS

Programming Language+: R, R Shiny, Python, Markdown, HTML, CSS, JavaScript

Computing Platform+: Posit, Quarto, Visual Studio Code, Jupyter Notebook

Web Deployment & Management: Amazon Web Services, DigitalOcean, Docker, GitHub, Netlify, Cascade, WordPress

👤💻 PROFESSIONAL EXPERIENCE

Current | 2024.08

Assistant Professor (Department of Special Education)

Illinois State University, Normal, IL

• Math Methods for Learners with Disabilities (SED 368-001), fall 2024, spring 2025
• Math Methods for Learners with Disabilities (SED 368-002), spring 2025
• Math Methods for Learners with Disabilities (SED 368-092), fall 2024
• Math Methods for Learners with Disabilities (SED 368-094), fall 2024

2024.06 | 2019.08

Assistant Professor (Department of Education)

West Texas A&M University, Canyon, TX
B.S. Education, EC-12 Special Education Certification & Mathematics/Science (Grades 4-8)
M.Ed. Educational Diagnostician & Leadership of Curriculum and Instruction (Special Education)

• STEM Teaching and Learning (EDEL 4381-01/70), fall 2023, spring & summer 2024
• Special Education Methods (EDSP 4369-70), spring 2022–2024
• Individual Assessment Techniques (EDSP 4355-70), fall 2021, 2022
• Foundations of Special Education (EDSP 4351-70), spring 2021, 2022
• PACE Special Education (EDUC-5002-X70), spring, summer, & fall 2021–2024
• Teaching Individuals with High Incidence Disabilities (EDSP 4354-70), fall 2020–2023
• Children with Special Needs (EPSY 3350-70/71), spring, summer, & fall 2020, 2021
• Educational Programming for Adolescents with Disabilities (EDSP 4357-01), spring 2020, 2021
• Exceptionality in Children (EDSP 4351-70), spring 2020
• Learning and Behavior Disorders (EDSP 4354-01), fall 2019
• Teaching Individuals with Intellectual Disabilities (EDSP 4352-70), fall 2019
• Assessment, Intervention, and Differentiation (EDRD/EDSP/EDEC/EDPD-6341-70), fall 2021–2023
• Instructional Programming for Students: Low Incidence Disabilities (EDSP 6352-70), fall 2021
• Consultation and Collaboration, Exceptional Children (EDSP 6356-70), spring 2021–2024
• Instructional Programming for Students: High Incidence Disabilities (EDSP 6354-70), fall 2020, summer 2021–2023
• Instructional Programming for Students with Intellectual Disabilities (EDSP 6352-70), summer 2020
• Advanced Remediation Techniques (EDSP 6356-70), spring 2020
• Assistive Technology (EDSP 6360-70), fall 2019
• Theories of Learning Disabilities and Emotional/Behavioral Disorders (EDSP 6354-70), fall 2019

2019.08
|
2016.08

Assistant Professor (Department of Secondary Special Education & Graduate School of Childhood and Special Education)

Jeonju University, Jeonju, Republic of Korea
B.A. Secondary Special Education Certification & M.Ed. and Ed.D in Special Education

· Teaching and Learning for Children with Learning Disabilities (12869-01), fall
· Special Education Administration (14379-01), fall
· Practicum of Behavior Modification of Children with Disabilities (13093-01), fall
· Supports for Families of People with Disabilities (14606-01), fall
· Health Data Management (15564-01), fall
· Teaching and Learning for Children with Intellectual Disabilities (12870-01), spring
· Policy for Special Education (14483-01), spring
· Education and Communication (15402-03), spring
· Smart Life (13692-03), fall & spring
· Understanding for People with Disabilities (14873-01), fall & spring
· Seminar in Special Education (BN1101-01)

2016.08
|
2016.03

Lecturer (Department of Junior Secondary School Special Education)

Kangnam University, Yongin, Republic of Korea

· Education for Students with Learning Disability (DC04203-00)

2016.08
|
2016.03

Lecturer (Graduate School of Education)

Seoul National University of Education, Seoul, Republic of Korea

· Instructional-Academic Strategies for Children with Special Needs (003709-1)

2016.09
|
2016.01

Lecturer (Graduate School of Education)

Gyeongin National University of Education, Incheon, Republic of Korea

· Education for Students with Learning Disability and Learning Difficulty (103-127)

2016.01

Lecturer (Graduate School of Education)

Korea National University of Education, Cheongju, Republic of Korea

· Special Education Technology (30118507)

2016.08
|
2016.03

Invited Professor (Department of Special Education & Graduate School of Education)

Ewha Womans University, Seoul, Republic of Korea

· Education for Students with Learning Disabilities (21850-01)
· Introduction to Special Education (ED111-01)

2016.02
|
2015.09

Lecturer (Graduate School of Education)

Korea University, Seoul, Republic of Korea

· Teaching Students with Learning Disabilities (EGS521-00)

2016.02
|
2015.08

Lecturer (Graduate School of Education & Seoul Citizens College)

University of Seoul, Seoul, Republic of Korea

· Educational Method (GSE11009-01)
· Teaching and Counseling Exceptional Children

Lecturer (Graduate School of Education)

2015.12 | 2015.09

Ewha Womans University, Seoul, Republic of Korea

· Introduction to Special Education (ED111-01)

Lecturer (Graduate School of Education)

2015.12 | 2015.08

Konkuk University, Seoul, Republic of Korea

· Counseling Exceptional Children (FSAD33027-01)

Special Education Teacher (Mathematics)

2015.06 | 2013.08

Stony Point High School, Round Rock ISD, Round Rock, Texas

· Teaching Applied Math Models, Algebra II, and Advanced Quantitative Reasoning
· Working as a special education case manager
· Sponsoring Asian Culture Club

Graduate Research Assistant

2013.08 | 2010.09

The University of Texas at Austin, Austin, Texas
Meadows Center For Preventing Educational Risk: Mathematics Institute

· Algebra-Readiness Mathematics Intervention for Middle-School Students: Project AIM
· Algebra I Supplemental Instruction for Students with Learning Disabilities at the High School Level: Observations and Intervention
· Coordinating the writing of a technical report for projects
· Analyzing quantitative and qualitative data
· Assisting in creating research-based mathematics lessons

Student Assistant

2009.12 | 2008.09

University of Texas Child Development Center, Austin, Texas

· Assisting teachers in classes for toddlers
· Assisting students as a Korean and English bilingual teacher

Special Education Teacher

2007.07 | 2007.04

Dasol Day Care Center, Seoul, Republic of Korea

· Teaching toddlers in an inclusion classroom
· Creating modified lessons and Individualized Education Program

Special Education Teacher

2007.04 | 2007.03

Changshin Elementary School, Seoul, Republic of Korea

· Teaching elementary school students with disabilities at a resource room

🏅 HONOR & AWARD

Chancellor's Academy of Teacher Educators Award

2023

The Texas A&M University System, TX

Bill Piehl Professorship of Education and Social Sciences

2022

West Texas A&M University, Canyon, TX

2022 ● **Terry B. Rogers College of Education and Social Sciences Faculty Award**
West Texas A&M University, Canyon, TX

2021 ● **John and Liz Mozola Teaching Excellence Award**
West Texas A&M University, Canyon, TX

2019 ● **Outstanding Research Faculty Award**
Jeonju University, Jeonju, Republic of Korea

2018 ● **Outstanding Research Faculty Award**
Jeonju University, Jeonju, Republic of Korea

2010 ● **Joe R. & Teresa Lozano Long Graduate Fellowship**
The University of Texas at Austin, Austin, TX

2009 ● **I.F. Riggs Memorial Endowed Presidential Scholarship**
The University of Texas at Austin, Austin, TX

2007 ● **Texas Alumni Scholarship**
The University of Texas at Austin, Austin, TX

2002 ● **Ewha Scholarship**
Ewha Womans University, Seoul, Republic of Korea

📖 RESEARCH GRANT: PENDING SUPPORT

2027
|
2025 ● **Principal Investigator**
National Science Foundation: Multilevel meta-analysis of the impacts of mathematics interventions using technology for students with or at risk for learning disabilities, $600,000

🏫 RESEARCH GRANT: EXTERNALLY FUNDED

2024
|
2021 ● **Co-Principal Investigator**
Office of Naval Research, U.S. Department of Defense: PERFECT–Providing environment and resources for STEM 9th-12th graders in effective cybersecurity training, $598,841

2024
|
2023 ● **Co-Principal Investigator**
Korea Learning Disabilities Association: Development directions for future special education and education for students with learning disabilities, $1,150

2018 ● **Co-Principal Investigator**
National Institute of Special Education/Ministry of Education: Teaching and learning materials for students with disabilities in grades 3 and 4 in inclusive setting, $265,903

2018
|
2016 ● **Principal Investigator**
National Research Foundation of Korea/Ministry of Education: Effects of explicit mathematics instruction with the use of virtual manipulatives on learning fraction concepts and skills of students with disabilities, $37,466

2017 ● Consultant

National Institute of Special Education/Ministry of Education: Teaching and learning materials for students with disabilities in grades 1 and 2 in inclusive setting, $265,903

2017
|
2015 ● Co-Principal Investigator

National Research Foundation of Korea/Ministry of Education: Reading intervention for the students with disabilities based on hybrid application with Korean AAC symbols, $129,829

2016 ● Co-Principal Investigator

Lifelong Education Center for Individuals with Disabilities in Gunsan: Analysis of the status of lifelong education for individuals with disabilities in Jeollabuk-do and its policy direction, $8,922

📈 RESEARCH GRANT: INTERNALLY FUNDED

2024 ● Principal Investigator

Illinois State University, College of Education: Research Fellowship & External Grant Development: Linguistics complexities impacting elementary school students' difficulty in state-level mathematics assessments: Large language models and Bayesian multilevel models, $2,800

2024 ● Co-Principal Investigator

Richard and Mary West Traylor Research Grant, Center for Learning Disabilities: Lived experience of parents of children with specific learning disabilities, $2,500

2020
|
2019 ● Principal Investigator

Killgore Faculty Research Grant, West Texas A&M University: Using virtual manipulatives to teach fractions to students with learning disabilities, $2,991

2019 ● Principal Investigator

Jeonju University Research Grant: An analysis on the associations of school-aged learners' working memory and mathematical abilities, $2,009

2018 ● Principal Investigator

Jeonju University Research Grant: Intensive mathematics instruction with the use of visual representations and virtual manipulatives for students with mild disabilities in the inclusive classroom, $9,105

2018 ● Principal Investigator

Jeonju University Research Grant: A study on graphic data extraction for the meta-analysis of single-case designs, $518

2018
|
2016 ● Principal Investigator

Jeonju University Research Grant: Special education trends and issues: Technology-based mathematics instruction, $7,756

2017 ● Principal Investigator

Jeonju University Research Grant: A meta-analysis of the effects of mathematics interventions on the word problem-solving performance of students with learning disabilities, $3,308

2017 ● **Principal Investigator**

Jeonju University Research Grant: High school students' awareness on learning disabilities and universal design for learning, $4,562

📄 PUBLICATION: PEER-REVIEWED ARTICLE

2025 ● Yoo, Y., Kim, W., & **Shin, M.**

Measuring reading comprehension processes of students with and without reading difficulties through eye movement. *Learning Disability Quarterly.* DOI

2025 ● Park, J., Paxtle-Granjeno, J., Ok, M. W., **Shin, M.**, & Wilson, E.

Preventing digital distraction in secondary classrooms: A quasi-experimental study. *Computers & Education, 227*, Article 105223. DOI | Code

2025 ● **Shin, M.**, Park, H., & Kang, E. Y.

Development of education policies and practices for students with learning disabilities in South Korea using Delphi surveys and topic modeling. *Learning Disability Quarterly, 48*(1), 13-25. DOI | Data set and code

2024 ● **Shin, M.**, & Park, J.

Technology-assisted instruction with teacher prompts on fraction multiplication word problems: A single-case design with visual analysis and Bayesian multilevel modeling. *Assistive Technology.* DOI | Data set and code

2024 ● Garcia, B., **Shin, M.**, Clifton, A., Bingham, T., Coneway, B., & Hughes, C.

Journey for crafting excellence: West Texas A&M University teacher educator standards development and implementation of standards for rural educators. *Texas Forum of Teacher Education, 15*, 20-36. PDF | Code

2024 ● Simmons, M., **Shin, M.**, & Hart, S.

Dyslexia identification: Texas legislative trends in prevalence rate of students by school district locale. *Texas Education Review, 12*(2), 6-24. DOI | Code

2024 ● **Shin, M.**, Hart, S., & Simmons, M.

Meta-analysis of single-case design research: Application of multilevel modeling. *School Psychology, 39*(6), 625–635. DOI | Data set and code

2024 ● Park, J., Bryant, D. P., & **Shin, M.**

Effects of a synchronous online fraction intervention using virtual manipulatives for students with learning disabilities. *Journal of Special Education Technology, 39*(2), 234-246. DOI

2023 ● Kang, E., Park, H., & **Shin, M.**

Analysis of perceptions for the development of future education policies for students with learning disabilities in accordance with recent changes in the education field. *The Korea Journal of Learning Disabilities, 20*(3), 111-138. Read more | Data set and code

2023 ● Kim, W., Yoo, Y., & **Shin, M.**

Comparative analysis of inferencing in low-reading and average-reading comprehenders: Utilizing the think-aloud protocol. *Communication Sciences & Disorders, 28*(3):480-491. Read more

2023   Shin, M., Ok, M. W., Choo, S., Hossain, G., Bryant, D. P., & Kang, E.

A content analysis of research on technology use for teaching mathematics to students with disabilities: Word networks and topic modeling. *International Journal of STEM Education, 10* (Article 23). Data set and code

2023   Kim, S. A., Bryant, P. D., Bryant, B., Shin, M., & Ok, M. W.

A multilevel meta-analysis of whole number computation interventions for students with learning disabilities. *Remedial and Special Education, 44*(4), 332-347. Data set and code

2023   Shin, M., Simmons, M., Meador, A., Goode, F. J., Deal, A., & Jackson, T.

Mathematics instruction for students with learning disabilities: Applied examples using virtual manipulatives. *Intervention in School and Clinic, 58*(3) 198-204.

2023   Lee, O., & Shin, M.

Universal Design for Learning in adapted national-level digital mathematics textbooks for elementary school students with disabilities. *Exceptionality, 31*(1), 36-51.

2022   Kang, J., & Shin, M.

Special education in South Korea: Policies and issues. *Journal of Special Education Preparation, 2*(2), 70-78.

2022   Denton, K., Coneway, B., Simmons, M., Behl, M., & Shin, M.

Parents' voices matter: A mixed-method study on the dyslexia diagnosis process. *Psychology in the Schools, 59*(11), 2267-2286. Code

2022   Shin, M., & Choi, N.

The invisible population of students with learning disabilities in South Korea. *Intervention in School and Clinic, 57*(3), 194-197.

2022   Park, J., Bryant, D. P., & Shin, M.

Effects of interventions using virtual manipulatives for students with learning disabilities: A synthesis of single-case research. *Journal of Learning Disabilities, 55*(4), 325-337.

2021   Shin, M., Bryant, D. P., Powell, S. R., Jung, P.-G., Ok, M. W., & Hou, F.

A meta-analysis of single-case research on word-problem instruction for students with learning disabilities. *Remedial and Special Education, 42*(6), 398–411. Data set and code

2021   Shin, M., Park, J., Grimes, R., & Bryant, D. P.

Effects of using virtual manipulatives for students with disabilities: Three-level multilevel modeling for single-case data. *Exceptional Children, 87*(4), 418–437. Data set and code

2021   Shin, M., Kang, E., & Lee, O.

High school students' perceptions of mathematics teachers' implementation of UDL-based practices and technology in mathematics classes. *International Journal of Contents, 17*(2), 9–19. Read more

2021   Peltier, C., Morano, S., Shin, M., Stevenson, N. A., & McKenna, J. W.

A decade review of single-case graph construction in the field of learning disabilities. *Learning Disabilities Research & Practice, 36*(2), 121–135.

2021 Garwood, J. D, McKenna, J., Roberts, G., Ciullo, S., **Shin, M.**

Social studies content knowledge interventions for students with emotional and behavioral disorders: A meta-analysis. *Behavior Modification, 45*(1), 147–176.

2021 Simmons, M., **Shin, M.**, & Sharp, L.

Special education eligibility identification rates in Texas: A comparative analysis of rural and urban school districts. *Texas Education Review, 9*(1), 6–21.

2020 Park, E.-Y., & **Shin, M.**

A meta-analysis of special education teachers' burnout. *Sage Open, 10*(2), 1–18.

2020 Lee, J., Bryant, D. P., Ok, M. W., & **Shin, M.**

A systematic review of interventions for algebraic concepts and skills of secondary students with learning disabilities. *Learning Disabilities Research & Practice, 35*(2), 89–99.

2020 **Shin, M.**, & Lee, O.

An analysis of high school Korean language instruction regarding Universal Design for Learning: Social big data analysis and survey analysis. *Journal of the Korea Academia-Industrial Cooperation Society, 21*(1), 1–12. Read more

2020 Lee, O., & **Shin, M.**

Adapting national-level textbooks for students with disabilities in South Korea. *Intervention in School and Clinic, 55*(4), 257–263.

2019 **Shin, M.**, & Kim, W.

A meta-analysis of the associations of mathematical word problem solving and working memory. *Korean Journal of Special Education, 54*(1), 61–89. Read more

2019 **Shin, M.**, Ok, M. W., Kang, E. Y., & Bryant, D. P.

Korean elementary school teachers' implementation of mathematics instruction for students struggling to learn mathematics in inclusive settings. *Journal of Research in Special Educational Needs, 19*(2), 145–157.

2019 Kang, E., & **Shin, M.**

The contributions of reading fluency and decoding to reading comprehension for struggling readers in the fourth grade. *Reading & Writing Quarterly, 35*(3), 179–192.

2019 Lee, O., & **Shin, M.**

A national online survey of South Korean high school students' understanding of learning disabilities. *Learning Disability Quarterly, 42*(1), 46–59.

2019 McKenna, J., **Shin, M.**, Solis, M., Mize, M., & Pfannenstiel, K.

Effects of single-case reading interventions for students with and at-risk of emotional and behavioral disorders in grades K-12: A quantitative synthesis. *Psychology in the Schools, 56*(4), 608–629.

2019 Chae, S., Park, E.-Y., & **Shin, M.**

School-based interventions for improving disability awareness and attitudes towards disability of students without disabilities: A meta-analysis. *International Journal of Disability, Development and Education, 66*(4), 343–361.

2019

Garwood, J. D., Werts, M. G., Mason, L. H., Harris, B., Austin, M. B., Ciullo, S., Magner, K. M., Koppenhaver, D. A., & **Shin, M.**

Improving persuasive science writing for secondary students with emotional and behavioral disorders educated in residential treatment facilities. *Behavioral Disorders, 44*(4), 227–240.

2018

Shin, M., Chae, S., & Jung, P.-G.

The effects of strategy instruction for improving the ability to solve word problems among students with learning disabilities: A meta-analysis of single-case design research. *The Korea Journal of Learning Disabilities, 15*(3), 203–230. Read more

2018

Kim, W., **Shin, M.,** & Yoo, Y.

The differences between eye movements of low and average achievers in visual search for map reading. *Asian Journal of Education, 19*(4), 1021–1048. Read more

2018

Kang, E., & **Shin, M.**

The effects of teacher preparation programs with project-based learning for strengthening preservice special education teachers' practical teaching abilities. *The Journal of the Korea Contents Association, 18*(12), 547–557. Read more

2018

Shin, M., & Chae, S.

Comparing the effects of the use of virtual manipulatives and visual representations to improve the fraction concepts of students with mild intellectual disabilities. *Special Education Research, 17*(4), 187–216. Read more

2018

Lee, H., **Shin, M.,** & Choi, N.

A comparison of perceptions regarding the significance on Universal Design for Learning between preservice secondary general and special Education teachers. *The Journal of Inclusive Education, 13*(2), 73–93. Read more

2018

Shin, M., & Jung, P.

Reliability, validity, and usability of a graph extraction computer program for the meta-analysis of single-case studies. *Special Education Research, 17*(3), 185–207. Read more

2018

Shin, M., & Choi, N.

How Korean English language learners learn reading and mathematics in English: Policy considerations for at-risk students. *Asia-Pacific Journal of Intellectual Disabilities, 5*(1), 56–68. Read more

2018

Bae, B., Lee, O., & **Shin, M.**

A synthesis on the effects of app-based smart learning for students with disabilities: Focusing on single-case research designs. *The Journal of Special Children Education, 20*(2), 83–115. Read more

2018

Shin, M.

Developing a "Fun Fraction" website of virtual manipulatives and the effects of explicit and systematic instruction with the virtual-representational-abstract instructional sequence for elementary school students with mathematics difficulties. *The Korea Journal of Learning Disabilities, 15*(1), 57–91. Read more

2018 — Park, E.-Y., **Shin, M.**, & Chae, S.

A meta-analysis of single-case research designs on individualized positive behavior supports. *Journal of Behavior Analysis and Support, 5*(1), 27–48. Read more

2018 — **Shin, M.**, Park, E., Hong, K.-H., Lee, J., & Park, H.

A usability testing of a hybrid mobile reading game for children with reading disabilities. *The Journal of the Korea Contents Association, 18*(1), 314–326. Read more

2017 — Choi, N., & **Shin, M.**

School supervisors in South Korea's special education support centers: Legal duties and preparation for their supervisory responsibilities. *International Journal of Special Education, 32*(4), 784–792.

2017 — Choi, N., **Shin, M.**, & Cho, E.

Policies and issues surrounding the identification of students with learning disabilities in South Korea. *International Journal of Special Education, 32*(2), 439–457.

2017 — **Shin, M.**

An analysis of mobile virtual manipulatives apps for the teaching of elementary school mathematics. *Journal of Korea Multimedia Society, 20*(6), 935–949. Read more

2017 — **Shin, M.**, & Bryant, D. P.

Improving the fraction word problem solving of students with mathematics learning disabilities: Interactive computer application. *Remedial and Special Education, 38*(2), 76–86.

2017 — **Shin, M.**, & Lee, H.

Mediating effects for the creativity development of elementary school students with mathematics difficulties, reading difficulties, reading and mathematics difficulties, and no learning difficulties: A latent growth curve analysis. *The Korea Journal of Learning Disabilities, 14*(1), 123–148. Read more

2017 — **Shin, M.**, Bryant, D. P., Bryant, B. R., Mckenna, J. W., Hou, F., & Ok, M.

Virtual manipulatives: Tools for teaching fractions to students with learning disabilities. *Intervention in School and Clinic, 52*(3), 148–153.

2017 — Chae, S., Park, E.-Y., & **Shin, M.**

Needs analysis of lifelong education support and planning for people with disabilities in Jeollabukdo: A comparison by disability onset. *The Journal of Inclusive Education, 12*(1), 163–187. Read more

2017 — Dougherty, B., Bryant, D. P., Bryant, B. R., & **Shin, M.**

Helping students with mathematics difficulties understand ratios and proportions. *TEACHING Exceptional Children, 49*(2), 96–105.

2017 — Lee, Y., Park, E., Kim, Y.-T., & **Shin, M.**

An analysis of special school and special class teachers' reading instruction for students with disabilities. *The Journal of Special Children Education, 19*(1), 27–52. Read more

2017 — Mckenna, J. W., Kim, M. K., **Shin, M.**, & Pfannenstiel, K.

An evaluation of single-case reading intervention study quality for students with and at risk for emotional and behavioral disorders. *Behavior Modification, 41*(6), 868–906.

2016   **Shin, M.,** Kang, E. Y., & Ok, M. W.

A survey of elementary school general education teachers' beliefs on inclusive education and mathematics instructional practices for students with disabilities and learning difficulties. *Special Education Research, 15*(4), 33–60. Read more

2016   **Shin, M.,** Lee, H., & Mckenna, J. W.

Special education and general education preservice teachers' co-teaching experiences: A comparative synthesis of qualitative research. *International Journal of Inclusive Education, 20*(1), 91–107.

2016   **Shin, M.,** Park, E., Kim, Y. T., & Kang, J. K.

Reading interventions for improving phonological awareness and word recognition of students with disabilities: A meta-analysis of single-subject research designs *The Journal of Special Children Education, 18*(2), 45–75. Read more

2015   **Shin, M.,** & Bryant, D. P.

Fraction interventions for students struggling to learn mathematics: A research synthesis. *Remedial and Special Education, 36*(6), 374–387.

2015   **Shin, M.,** & Bryant, D. P.

A synthesis of mathematical and cognitive performances of students with mathematics learning disabilities. *Journal of Learning Disabilities, 48*(1), 96–112.

2015   **Shin, M.,** & Kim, W.

Cognitive performance of students with learning disabilities: A meta-analysis of the literature. *Special Education Research, 14*(3), 217–239. Read more

2015   Mckenna, J. W., **Shin, M.,** & Ciullo, S. P.

Evaluating reading and mathematics instruction for students with learning disabilities: A synthesis of observation research. *Learning Disability Quarterly, 38*(4), 195–207.

2012   **Shin, M.,** & Sorrells, A.

How first grade Korean English language learners respond to scientifically validated instruction in reading comprehension. *Journal of Bilingual Education Research & Instruction, 14*(1), 7–27. Read more

📖 PUBLICATION: BOOK & BOOK CHAPTER

in press   **Shin, M.,** Park, J., Lee, J.-Y., & Meador, A.

Mathematics instruction for students with learning disabilities. In J. Bakken (Ed.), *International handbook of special education*. Springer.

in press   Park, J., Bryant, D. P., **Shin, M.,** & Choo, S.

Chapter 10: Assistive technology for mathematics. In, *An evidence-based guide to assistive technology: Meeting the needs of all students with disabilities.* Taylor and Francis.

in press   Bryant, D. P., Park, J., **Shin, M.,** & Choo, S.

Assistive technology in special education. In J. Bakken (Ed.), *International handbook of special education*. Springer.

2021 Bryant, D. P., Bryant, B. R., & **Shin, M.**

Mathematics interventions. In D. P. Bryant (Ed.), *Intensifying mathematics interventions for struggling students* (pp. 1–18). Guilford.

2021 Ok, M. W., **Shin, M.**, Bryant, B. R., & Bryant, D. P.

Use of technology for intensifying mathematics intervention. In D. P. Bryant (Ed.), *Intensifying mathematics interventions for struggling students* (pp. 183–202). Guilford.

2018 Lee, O., **Shin, M.**, Kwak, J., Bae, B., Park, H., Yoo, M., & Jung, S.

Teaching and learning materials for inclusive education of students with disabilities: Grade 3 mathematics. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Kwak, J., Bae, B., Park, H., Yoo, M., & Jung, S.

Teaching and learning materials for inclusive education of students with disabilities: Grade 4 mathematics. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Ko, J., Kim, G., Kim, J., Seol, J., & So, S.

Teaching and learning materials for inclusive education of students with disabilities: Grade 3 Korean. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Ko, J., Kim, G., Kim, J., Seol, J., & So, S.

Teaching and learning materials for inclusive education of students with disabilities: Grade 4 Korean. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Kim, H., Kim, H., Sin, S., Yoon, J., & Seon, H.

Teaching and learning materials for inclusive education of students with disabilities: Grade 3 science. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Kim, H., Kim, H., Sin, S., Yoon, J., & Seon, H.

Teaching and learning materials for inclusive education of students with disabilities: Grade 4 science. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Kim, J., Moon, Y., Sim, S., Jo, G., & Ha, J.

Teaching and learning materials for inclusive education of students with disabilities: Grade 3 social studies. National Institute of Special Education.

2018 Lee, O., **Shin, M.**, Kim, J., Moon, Y., Sim, S., Jo, G., & Ha, J.

Teaching and learning materials for inclusive education of students with disabilities: Grade 4 social studies. National Institute of Special Education.

2017 Lee, O., **Shin, M.**, Sim, S., Shin, S., Yoon, J., Moon, Y., . . . Kim, H.

Teaching and learning materials for inclusive education of students with disabilities: Grade 1-1 integrated subject. National Institute of Special Education.

2017 Lee, O., **Shin, M.**, Sim, S., Shin, S., Yoon, J., Moon, Y., . . . Kim, H.

Teaching and learning materials for inclusive education of students with disabilities: Grade 1-2 integrated subject. National Institute of Special Education.

2017 ● Lee, O., **Shin, M.,** Sim, S., Shin, S., Yoon, J., Moon, Y., . . . Kim, H.

Teaching and learning materials for inclusive education of students with disabilities: Grade 2-1 integrated subject. National Institute of Special Education.

2017 ● Lee, O., **Shin, M.,** Sim, S., Shin, S., Yoon, J., Moon, Y., . . . Kim, H.

Teaching and learning materials for inclusive education of students with disabilities: Grade 2-2 integrated subject. National Institute of Special Education.

2017 ● Lee, O., Yoo, J., **Shin, M.,** Kim, W., Baek, S., Lee, H., . . . Lee, J.

Teaching and learning materials for inclusive education of students with disabilities: Grade 1 mathematics. National Institute of Special Education.

2017 ● Lee, O., Yoo, J., **Shin, M.,** Kim, W., Baek, S., Lee, H., . . . Lee, J.

Teaching and learning materials for inclusive education of students with disabilities: Grade 2 mathematics. National Institute of Special Education.

2017 ● Lee, O., Park, K., **Shin, M.,** Kim, J., Kim, M., Shin, S., . . . Park, S.

Teaching and learning materials for inclusive education of students with disabilities: Grade 1 Korean. National Institute of Special Education.

2017 ● Lee, O., Park, K., **Shin, M.,** Kim, J., Kim, M., Shin, S., . . . Park, S.

Teaching and learning materials for inclusive education of students with disabilities: Grade 2 Korean. National Institute of Special Education.

2015 ● Bryant, D. P., Bryant, B. R., **Shin, M.,** Pfannenstiel, K. H.

Learning disabilities: Mathematics characteristics and instructional exemplars. In S. Chinn (Ed.), *The Routledge international handbook of dyscalculia and mathematical learning difficulties* (pp. 243-255). Routledge.

2014 ● Bryant, D. P., Pfannenstiel, K. H., Bryant, B. R., Hunt, J., & **Shin, M.**

Selecting and tailoring interventions for students with mathematics difficulties. In J. T. Mascolo, V. C. Alfonso, & D. P. Flanagan (Eds.), *Essentials of planning, selecting, and tailoring interventions for unique learners* (pp. 178–203). Wiley.

2013 ● Bryant, D. P., Bryant, B. R., Williams, J. L., Kim, S. A., & **Shin, M.**

Instructional practices for improving student outcomes in solving arithmetic combinations. In B. G. Cook & M. Tankersley (Eds.), *Research-based practices in special education* (pp. 61–72). Pearson.

2013 ● Bryant, D. P., Bryant, B. R., Williams, J. L., Kim, S. A., & **Shin, M.**

Instructional practices for improving student outcomes in solving arithmetic combinations. In D. J. Chard, B. G. Cook, & M. Tankersley (Eds.), *Research-based strategies for improving outcomes in academics* (pp.58–69). Pearson.

📖 PUBLICATION: NON-PEER REVIEWED REPORT, DATA & SOFTWARE

2025 ● **Shin, M.**

TextAnalysisR: A text mining workflow tool (R package version 0.0.2) [Computer software]. https://mshin77.github.io/TextAnalysisR

2024 ● **Shin, M.**

COLAB Math [Web application]. https://colab-math.pages.dev

2024 ● **Shin, M.**

Math tutor [Web application]. https://fraction-tutor.pages.dev

2024 ● **Shin, M.**

Mathematics application usability scale [Web application]. https://mkshin.shinyapps.io/MA-US

2024 ● **Shin, M.**

Fun Fraction: Let's learn how to multiply and divide fractions [Website]. https://en-funfraction.net

2024 ● **Shin, M.**

Fun Fraction: Let's learn how to multiply fractions [Website]. https://funfraction.org

2024 ● **Shin, M.**

재미난 분수 [Website]. https://funfraction.net

2024 ● **Shin, M.**

TextAnalysisR: Analyze text data [Web application]. https://www.textanalysisr.org

2016 ● Park, E., Chae, S., & **Shin, M.**

Analysis of the status of lifelong education for individuals with disabilities in Jeollabuk-do and its policy direction. Gunsan, Republic of Korea: Lifelong Education Center for Individuals with Disabilities in Gunsan.

2015 ● **Shin, M.**

Family support in the U.S. *Web Magazine for Practical Special Education, 22.* http://www.nise.go.kr/jsp/field/2015-2/09.jsp

2015 ● **Shin, M.**

The use of smartphone in the U.S. classroom. *Web Magazine for Practical Special Education, 22.* http://www.nise.go.kr/jsp/field/2015-1/09.jsp

2012 ● Bryant, D. P, Bryant, B. R., **Shin, M.**, McKenna, J., Methuen, C. Tausiani, J., & Kim, M.

Technical report for the Algebra I, English I, and behavior. Texas Education Agency/University of Texas System.

2011 ● Bryant, D. P, Bryant, B. R., Langley, J., Flower, A., Hou, V., McKenna, J., Muething, C., **Shin, M.**, & Tausiani, J.

Secondary special education observation and intervention study. Technical report. Texas Education Agency/University of Texas System.

ⓟ PROFESSIONAL CONFERENCE PRESENTATION

2025, February ● **Shin, M.**

Implementation of semi-automated AI-driven literature screening in special education [Accepted for poster session]. 33rd Annual Pacific Coast Research Conference, Coronado, CA.

2025, March

Shin, M., Park, H., & Kang, E. Y.

Employing artificial intelligence techniques in special education research and methodology [Accepted for poster session]. Council for Exceptional Children 2025 Annual Convention, Baltimore, MD.

2025, March

Park, H., Gremp, M., & **Shin, M.**

Effects of interactive and hands-on learning experience of assistive technology on students' perspectives and knowledge [Accepted for concurrent session]. Council for Exceptional Children 2025 Annual Convention, Baltimore, MD.

2024, October

Hatala, E., Simmons, M., & **Shin, M.**

Practices and preferences when using the WJ-IV battery in culturally/linguistically diverse evaluation [In-progress research roundtable session]. 46th International Conference on Learning Disabilities, Charlotte, North Carolina.

2024, October

Choo, S., An, J., & **Shin, M.**

Embedded assessment in educational games: Optimizing NumberShire gameplay data [Roundtable session]. 46th International Conference on Learning Disabilities, Charlotte, North Carolina.

2024, October

Hossain, G., **Shin, M.,** & Afrose, M.

Bridging the gap: Exploring cybersecurity careers for high school students [Full paper session]. Frontiers in Education 2024, Washington, DC.

2024, October

Hossain, G., Hurt, T., & **Shin, M.**.

Fundamentals on cyber fraud detection and investigation: Empowering high school students for a secure digital future [Full paper session]. Frontiers in Education 2024, Washington, DC.

2024, April

Shin, M., Park, J., & Kim, S.

Technology-enhanced mathematics instruction for students with learning disabilities [Concurrent session]. Council for Exceptional Children 2024 Annual Convention. Virtual Conference.

2024, March

Mohammed, S. P., Hossain, G., Ameen, S. Y. Q., Keosouvanh, S., & **Shin, M.**

Designing educational games to teach ethical hacking course in high school (grades 9-12) [Full paper session]. 14th IEEE Integrated STEM Education Conference. Princeton University, NJ.

2024, March

Shin, M., Park, J., & Kim, S.

Technology-enhanced mathematics instruction for students with learning disabilities [Concurrent session]. Council for Exceptional Children 2024 Annual Convention, San Antonio, Texas. Slides

2024, February

Shin, M.

Knowledge mapping of single-case design research: An analysis with the use of large language transformer model [Poster presentation]. 32nd Annual Pacific Coast Research Conference, Coronado, CA. Slides

2024, February

Kang, E., Park, H., & **Shin, M.**

Educational policy proposals for students with learning disabilities based on the direction of future education development analyzed through Delphi survey [Lecture presentation]. 2024 Korea Learning Disabilities Association Winter Academic Conference. Republic of Korea.

2024, January ● Hossain, G., **Shin, M.**, & Afrose, M.

Empowering K-12 STEM educators: Enhancing cybersecurity awareness through professional development [Paper presentation]. 42nd IEEE International Conference on Consumer Electronics, Las Vegas, Nevada.

2023, November ● **Shin, M.**, Hossain, G., & Afrose, M.

Uncovering opinions on cybersecurity and accessibility in metaverse [Power talk session]. 13th Global TechMining Conference, Virtual Event.

2023, October ● **Shin, M.**, Park, J., & Kim, S.

Case study and meta-analysis of the use of virtual manipulatives [Roundtable session]. 45th International Conference on Learning Disabilities, Denver, Colorado.

2023, October ● Simmons, M., **Shin, M.**, & Hart, S.

Dyslexia legislation trends in rural and urban schools [Roundtable session]. 45th International Conference on Learning Disabilities, Denver, Colorado.

2023, August ● Kang, E., Park, H., & **Shin, M.**

Development directions for future special education and education for students with learning disabilities [Lecture presentation]. 2023 Korea Learning Disabilities Association Academic Conference. Kookmin University, Republic of Korea.

2023, February ● **Shin, M.**

Exploring mathematics vocabulary terms and semantic mapping: NAEP text-to-speech items [Poster presentation]. 31st Pacific Coast Research Conference, Coronado, CA. Poster

2023, February ● Kim, W., & **Shin, M.**

Comprehension processes through eye movement and think-aloud tasks [Poster presentation]. 31st Annual Pacific Coast Research Conference, Coronado, CA.

2022, December ● **Shin, M.**

Longitudinal analysis for single-case experimental design meta-analyses: Using R [Lecture presentation]. Korean Society of Special Education Conference. National Institute of Special Education, Republic of Korea. Slides

2022, October ● Jones, B. A., Simmons, M. L., Huskin, P. R., **Shin, M.**, & Sande, B.

Improving university programming of students with learning disabilities [Roundtable session]. 44th International Conference on Learning Disabilities, Richmond, Virginia.

2022, March ● **Shin, M.**, & Hossain, G.

Development and application of user-defined dictionary objects for text mining analysis in special education technology research [Poster presentation]. 17th Annual Faculty Research Poster Session and Research Fair, West Texas A&M University, TX, United States. Poster

2022, February ● **Shin, M.**

Trends in technology use for teaching mathematics to students with disabilities [Poster session]. Annual Pacific Coast Research Conference, Coronado, CA. Poster

2021, December

Shin, M.

A single-case multilevel meta-analysis: Mathematics interventions using virtual manipulatives for students with disabilities [Lecture presentation]. Korean Society of Special Education Conference. Kongju National University, Republic of Korea. Slides

2021, October

Simmons, M., & Shin, M.

A nationwide survey on parent perspectives of the dyslexia diagnosis process [Panel session]. 43rd International Conference on Learning Disabilities, Las Vegas, NV.

2021, March

Shin, M.

Multilevel models for single-case data: Using virtual manipulatives for students with disabilities [Poster presentation]. 16th Annual Faculty Research Poster Session and Research Fair, West Texas A&M University, TX, United States.

2021, March

Behl, M., Denton, K., Simmons, M., Coneway, B., & Shin, M.

Dyslexia and the school counselor [Poster presentation]. 16th Annual Faculty Research Poster Session and Research Fair, West Texas A&M University, TX, United States.

2021, March

Denton, K., Simmons, M., Coneway, B., & Shin, M., & Behl, M.

Parent perspectives of the dyslexia diagnosis process [Poster presentation]. 16th Annual Faculty Research Poster Session and Research Fair, West Texas A&M University, TX, United States.

2021, March

Shin, M., & Powell, S. R.

Different examples of word-problem instruction for students with learning disabilities [Multi-presentation]. Council for Exceptional Children Annual Convention, Baltimore, MD.

2021, March

Park, J., Bryant, D. P., Satsangi, R., & Shin, M.

Use of virtual manipulatives for students with mathematics difficulties [Poster presentation]. Council for Exceptional Children Annual Convention, Baltimore, MD.

2021, February

Cho, E., Choi, N., & Shin, M.

Learning disabilities in South Korea: Policies and issues on the identification of students with LD [Lecture presentation]. Learning Disabilities Association of America's 58th Annual International Conference. Virtual conference.

2020, October

Shin, M., Simmons, M., & Goode, F.

Virtual manipulative-based explicit instruction for students struggling with mathematics [Panel presentation]. 2020 Virtual Annual Conference, Council for Learning Disabilities.

2020, October

Lee, J., Bryant, D. P., Ok, M. W., & Shin, M.

Algebra interventions for secondary students with learning disabilities [Roundtable session]. 2020 Virtual Annual Conference, Council for Learning Disabilities.

2020, March

Shin, M., Simmons, M., Goode, F., Meador, A., Deal, A., & Jackson, T.

Virtual manipulatives in mathematics interventions for students with mathematics difficulties [Poster presentation]. 15th Annual Faculty Research Poster Session and Research Fair, West Texas A&M University, TX, United States.

2020, February — **Shin, M.**

Assistive technology to enhance mathematics concepts and skills for children with disabilities [Lecture presentation]. 2020 Amarillo Conference (Becoming Agents of Change), Amarillo, TX.

2020, February — **Shin, M.**, Grimes, R., Park, J., & Bryant, D.

Using technology to enhance mathematics instruction for students with mathematics difficulties [Panel presentation]. Council for Exceptional Children Annual Convention, Portland, OR.

2019, October — **Shin, M.**

Learning disabilities in South Korea: Disability awareness, policies, and instructional Practices [Roundtable session]. 41th International Conference on Learning Disabilities, San Antonio, TX.

2019, June — **Shin, M.**, & Kim, W.

A meta-analysis on the associations of working memory and mathematical problem-solving: A moderator analysis by learners' disability profile [Lecture presentation]. Korean Society of Special Education Conference. Seoul, Republic of Korea.

2018, September — **Shin, M.**

Understanding and application of single-case meta-analyses [Lecture presentation]. Ewha Womans University, School of Education, Annual Conference, Seoul, Republic of Korea.

2018, May — **Shin, M.**

A comparative analysis of validity, reliability, and usability of graph extraction online programs for single-case research designs [Lecture presentation]. Korean Society of Special Education Conference. Changwon, Republic of Korea.

2017, May — **Shin, M.**

Development and evaluation of a virtual manipulatives web for teaching mathematics to students struggling to learn mathematics [Lecture presentation]. Korean Society of Special Education Conference, Busan, Republic of Korea.

2017, April — **Shin, M.**, Lee, H., & Choi, N.

UDL in teacher preparation programs [Multi-presentation session]. Council for Exceptional Children Annual Convention, Boston, MA.

2017, January — **Shin, M.**, Ok, M. K., & Kang, E. Y.

General and special education elementary school teachers' implementation of mathematics instruction for students struggling to learn mathematics [Poster session]. Kongju National University BK21+ International Conference, Kongju, Republic of Korea.

2016, October — **Shin, M.**, Jung, P.-G., Ok, M. W., Kang, E. Y., & Kim, M. K.

A research synthesis from start to publication: Theory and applications [Panel session]. 38th International Conference on Learning Disabilities, San Antonio, TX.

2016, November — **Shin, M.**, & Lee, H.

A longitudinal analysis of the effects of interactive class, academic stress, parents' educational support on creativity development mediated by self-concept and basic academic skills of students with mathematics difficulties, reading difficulties, and reading/mathematics difficulties [Lecture presentation]. 10th KELS (Korean Education Longitudinal Study) Conference, Seoul, Republic of Korea.

2016, July

Shin, M.

Current issues in early childhood special education: Neuroscience, shared reading, and co-teaching [Lecture presentation]. 68th OMEP World Assembly and International Conference, Seoul, Republic of Korea.

2016, October

Lee, J., Bryant, D. P., Ok, M., & **Shin, M.**

Teaching algebraic concepts and skills to secondary students with learning disabilities [Poster session]. 38th International Conference on Learning Disabilities, San Antonio, TX.

2016, June

Shin, M.

Smart learning based mathematics instruction for students with learning disabilities [Lecture presentation]. Ewha Womans University, School of Education, Annual Conference, Seoul, Republic of Korea.

2016, June

Lee, J., Bryant, D. P., Ok, M., & **Shin, M.**

Effects of interventions to teach algebraic concepts and skills to secondary students with learning disabilities [Poster session]. International Academy for Research in Learning Disabilities Conference, Austin, TX, U.S.

2016, June

Lee, J., Bryant, D. P., Bryant, B., **Shin, M.**, & Ok, M.

Using response to intervention model to teach mathematics to students [Poster session]. International Academy for Research in Learning Disabilities Conference, Austin, TX.

2016, May

Shin, M.

Interactive web-based mathematics instruction for improving word problem solving of students with mathematics learning disabilities [Lecture presentation]. Korean Society of Special Education Conference, Kongju, Republic of Korea.

2016, April

Shin, M.

Special education and general education preservice teachers' co-teaching experiences: A comparative synthesis of qualitative research [Poster session]. Council for Exceptional Children Annual Convention, St. Louis, Missouri.

2016, April

McKenna, J., **Shin, M.**, & Pfannenstiel, K.

Evaluation of single-subject reading interventions for students with emotional and behavioral disorders [Poster session]. Council for Exceptional Children Annual Convention, St. Louis, Missouri.

2016, February

Shin, M., Bryant, D. P., & Kim, W.

The relationship between mathematical and cognitive performances of students struggling to learn mathematics: A meta-analysis [Poster session]. Pacific Coast Research Conference, Coronado, CA.

2015, November

Shin, M.

Mathematics learning disabilities: Cognitive and mathematical characteristics [Lecture presentation]. Ewha Womans University, School of Education, Annual International Conference, Seoul, Republic of Korea.

2015, October

Shin, M., Bryant, D. P., & Kim, M. K.

Development and application of interaction computer application to teach fraction concepts [Interactive paper session]. 37th International Conference on Learning Disabilities, Las Vegas, NV.

2015, April ● Bryant, D. P., Kim, M. K., Ok, M., & **Shin, M.**

Computer-mediated and teacher-mediated instruction for students with learning disabilities: Embedding technologies into interventions [Panel session]. Council for Exceptional Children Annual Convention, San Diego, CA.

2014, October ● **Shin, M.**, & Hou, F.

A review of strategy instruction in word problem solving for struggling adolescent learners [Interactive paper session]. 36th International Conference on Learning Disabilities, Philadelphia, PA.

2014, February ● **Shin, M.**, & Bryant, D. P.

A synthesis of mathematical and cognitive performances of students with mathematics learning disabilities [Poster session]. Pacific Coast Research Conference, Coronado, CA.

2013, October ● **Shin, M.**, & Mckenna, J., & Bryant, D. P.

Using virtual manipulatives for specific mathematics applications [Interactive paper session]. 35th International Conference on Learning Disabilities, Austin, TX.

2013, October ● Mckenna, J., **Shin, M.**, & Ciullo, S. P.

Instructional delivery for students with LD: Review of observation studies [Interactive paper]. 35th International Conference on Learning Disabilities, Austin, TX.

2013, April ● **Shin, M.**, & Bryant, D. P.

A synthesis of fractions interventions for students struggling with mathematics [Poster session]. Council for Exceptional Children Annual Convention, San Antonio, TX.

2013, February ● **Shin, M.**, & Bryant, D. P.

A review of fractions interventions for students with learning disabilities [Poster session]. 50th Annual International Conference on Learning Disabilities Association of America, Austin, TX.

2012, October ● **Shin, M.**, & Bryant, D. P.

Mathematical and cognitive performances of students with mathematics learning disabilities [Poster session]. 34th International Conference on Learning Disabilities, Austin, TX.

2012, October ● Bryant, D. P., **Shin, M.**, & Bryant, B. R.

Algebra I ninth-grade classes: In search of effective instructional practices for teaching students with learning disabilities in inclusive settings [Poster session]. 34rd International Conference on Learning Disabilities, Austin, TX.

2012, June ● Bryant, D. P., Ramirez, J. T., Tracey, J., **Shin, M.**, & Bryant, B. R.

Mathematics supplemental instruction provided to students with learning disabilities at the high school level: observations and interventions [Poster session]. Texas Council for Exceptional Children, San Antonio, TX.

2012, June ● Bryant, B. R., Bryant, D. P., Kim, M.-K., Ramirez, J. T., **Shin, M.**, Tracey, J., & Laidlaw-Almaguer, S.

Algebra I and English I inclusion: Effective instruction for students with learning disabilities [Poster session]. Texas Council for Exceptional Children, San Antonio, TX.

2012, April
● **Shin, M.,** Lee, H., & Bryant, D. P.

Preservice teachers' co-teaching: A synthesis of qualitative research [Poster session]. Council for Exceptional Children Annual Convention, Denver, CO.

2012, April
● Bryant, D. P., Bryant, B. R., Kim, M., Tausiani, J., & **Shin, M.**

English I and algebra I inclusion classes: A learning disabilities instructional focus [Poster session]. Council for Exceptional Children Annual Convention, Denver, CO.

2012, February
● Bryant, D. P., Bryant, B. R., Flower, A., Tausiani, J., Langley, J. D., McKenna, J., Muething, C., & **Shin, M.**

Findings from an observation study of ninth-grade algebra I and English I classes [Poster session]. Pacific Coast Research Conference, Coronado, CA.

2011, October
● **Shin, M.,** & Bryant, D. P.

Review of mathematics intervention for struggling secondary- level learners [Poster session]. 33rd International Conference on Learning Disabilities, Austin, TX.

2011, October
● Bryant, D. P., Tausiani, J., Bryant, B. R., & **Shin, M.**

Algebra I ninth-grade classes: In search of effective instructional practices for teaching students with learning disabilities in inclusive settings [Poster session]. 33rd International Conference on Learning Disabilities, Austin, TX.

2010, April
● **Shin, M.,** & Sorrells, A.

Applying Collaborative Strategic Reading to comprehension instruction of Korean English language learners [Poster session]. Council for Exceptional Children Annual Convention, Nashville, TN.

🅿 INVITED GUEST LECTURER

2024, Winter
● **Evidence-Based Mathematics Interventions for Students With Learning Difficulties and Learning Disabilities**

Special Education Seminar, Catholic University of Korea, Republic of Korea

2024, Fall
● **Artificial Intelligence Brown Bag Lunch**

Committee for Responsible AI, Illinois State University

2024, Fall
● **Cyber Text Mining and Metaverse**

PERFECT Cybersecurity Intermediate Online Module, University of North Texas/West Texas A&M University

2024, Summer
● **Metaverse and Cybersecurity: Keep Every Student Safe**

PERFECT Training, University of North Texas/West Texas A&M University Slides

2024, Summer
● **Mathematics Learning Support and Instructional Modifications for Students With Learning Difficulties: Focused on Evidence-Based Domestic and International Cases**

Special Education Teacher (Level 1) Qualification Training, Catholic University of Korea, Republic of Korea

2024, Summer

Tech Blitz: AI for Math

Center for Innovation, Design, and Digital Learning, Lawrence, Kansas Part 1 | Part 2 | Part 3

2024, Spring

Interactive Technology and Accessible Instructional Designs for Teaching Mathematics to Students With Disabilities

EEX 4763 Technology for Classroom Teachers of Students with Special Needs, College of Community Innovation and Education, University of Central Florida

2023, Fall

Metaverse and Text Mining in Cybersecurity

PERFECT Cybersecurity Basic Online Module, University of North Texas/West Texas A&M University

2023, Fall

Online Learning Andragogical Diversity Panel

Paul and Virginia Engler College of Business, West Texas A&M University, Amarillo, Texas

2023, Summer

Metaverse and Cybersecurity: Keep Every Student Safe

PERFECT Training, University of North Texas/West Texas A&M University

2022, Fall

Parents' Voices Matter: Lessons Learned from a National Survey on the Dyslexia Diagnosis Process

Center for Learning Disabilities, West Texas A&M University, Amarillo, Texas

2021, Fall

Exploring the Benefits of Virtual Learning for Students with Learning Differences

Center for Learning Disabilities, West Texas A&M University, Amarillo, Texas

2021, Summer

TExES Exam Preparation Session

Special Education TExES Prep Course, Region 16 Education Service Center, Amarillo, Texas

2020, Fall

Meta-Analysis of Single-Case Research

Graduate School of Education, Korea National University of Education, Cheongju-si, Republic of Korea

2020, Spring

My Child is Struggling with Math! Could it be Dyscalculia?

Center for Learning Disabilities, West Texas A&M University, Amarillo, Texas

2019, Fall

Dyscalculia: Math Learning Disability Causes, Characteristics, and Interventions

Statewide Webinar, Partners Resource Network, Beaumont, Texas

2019, Spring

Prevention and Duty to Report Abuse of People with Disabilities

School of Education (Lecture for Undergraduate Students), Jeonju University, Jeonju, Republic of Korea

2018, Fall

Effective Behavior Modification for Preventing Challenging Problems

Parent Education Workshop for Families of Students with Disabilities, Myounghwa School for Students with Intellectual Disabilities, Jeonbuk, Republic of Korea

2018, Spring

Introduction to a Single-Case Meta-Analysis

Department of Education (Graduate Seminar), Korea University, Seoul, Republic of Korea

2018, Spring — Effective Behavior Modification for Preventing Challenging Problems

Special Education Support Center in Buan, Buan Office of Education, Jeonbuk, Republic of Korea

2017, Spring — Supporting Communication of Children With Developmental Disabilities: Focusing on Parent Education

National Center for Disabled Children and Developmental Disabilities, Support Center for Individuals with Developmental Disabilities, Jeonbuk, Republic of Korea

2017, Spring — A Meta-Analysis with the Use of Comprehensive Meta-Analysis Version 3.0

Department of Education (Graduate Seminar), Korea University, Seoul, Republic of Korea

2016, Fall — User Interface for Learners with Learning Difficulties

Department of Computer and Information Communications Engineering, Hongik University, Sejong, Republic of Korea

2016, Summer — Various Assessment Methods for Learning Difficulties

2016 Academic Year's Teacher Training Program, Incheon Bukbu Office of Education, Incheon, Republic of Korea

2016, Summer — Behavior Modification and Behavior Management

School psychologist Certificate Training, Korean School Psychology Association, Seoul, Republic of Korea

2016, Summer — Special Education Statistics: Research and Application

The Graduate School of Education, Yongin University, Gyeonggi, Republic of Korea

2016, Spring — My Life Story

Department of Special Education, Ewha Womans University, Seoul, Republic of Korea

2016, Spring — Mathematics Instruction for Students with Intellectual Disabilities, Teaching Experiences in the U.S.A.

The Graduate School of Education, Gyeongin National University of Education, Incheon, Republic of Korea

2015, Fall — Teaching Students with Learning Disabilities

Department of Special Education, Ewha Womans University, Seoul, Republic of Korea

2015, Fall — Mathematics Instruction for Students with Learning Disabilities

Department of Special Education, Ewha Womans University, Seoul, Republic of Korea

2015, Fall — Cause, Characteristics, and Instruction of Students with Learning Disabilities

Children's Center for Developmental Support, Ewha Womans University, Seoul, Republic of Korea

2015, Spring — A Research Synthesis from Start to Publication

Department of Special Education (Doctoral Seminar), The University of Texas at Austin, Austin, Texas

2013, Spring — Theoretical Framework

Department of Special Education (Instructional Adaptations II SED 383), The University of Texas at Austin, Austin, Texas

📖 EDITORIAL CONTRIBUTION

- **Reviewer for Journals**

  Scientific Reports, 2024–Current
  Journal of Educational Computing Research, 2024–Current
  Psychology in the Schools, 2024–Current
  Journal of Research in Special Educational Needs, 2024–Current
  Engineering Management Review, 2024–Current
  Innovation and Education, 2024–Current
  Teachers College Record, 2023–Current
  International Journal of STEM Education, 2023–Current
  School Science and Mathematics, 2023–Current
  Journal for STEM Education Research, 2023–Current
  Exceptional Children, 2019, 2023–Current
  Exceptionality, 2015, 2020, 2023–Current
  International Journal of Developmental Disabilities, 2023–Current
  Open Education Studies, 2023
  Applied Sciences, 2023
  Cogent Education, 2023
  Disability and Rehabilitation: Assistive Technology, 2022–Current
  Behavioral Disorders, 2022–Current
  Mathematics, 2021–Current
  Journal of Mathematical Behavior, 2021–Current
  Review of Educational Research, 2021–Current
  Education Sciences, 2021–Current
  Science Progress, 2021–Current
  Educational Review, 2021
  The Journal of the Korea Contents Association, 2020–Current
  Journal of Learning Disabilities, 2019–Current
  International Journal of Inclusive Education, 2015, 2018–Current
  Journal of Special Education: Theory and Practice, 2019–Current
  The Journal of Special Children Education, 2017–Current
  International Journal of Disability, Development and Education, 2017–Current
  The Korean Journal of Learning Disabilities, 2016–Current
  Learning Disability Quarterly, 2013, 2015, 2017–Current
  Journal of Interactive Learning Research, 2015–Current
  Learning Disabilities: A Multidisciplinary Journal, 2021
  Special Education Research, 2017–2020
  Journal of Educational Change, 2019
  Journal of Intellectual Disabilities, 2017
  Journal of Computers In Education, 2016
  Remedial and Special Education, 2015

- **Vice President**

  Innovations in Special Education Technology, 2024–Current

- **Co-Chair**

  Information Communications and Technology, Council for Learning Disabilities, 2024–Current

- **Board of Directors**

  Korea Education Curriculum Instruction, 2022–Current
  Korea Learning Disabilities Association, 2016–Current

- **Editorial Board**

  Journal of Special Education for Curriculum and Instruction, 2022–Current
  Special Education Research, 2020–Current
  The Korea Journal of Learning Disabilities, 2020–Current
  Journal of Special Education: Theory and Practice, 2019–Current
  Learning Disability Quarterly, 2016–Current
  Journal of Interactive Learning Research, 2016–2023

📄 PROFESSIONAL ASSOCIATION

- **Member**

  Innovations in Special Education Technology, 2020–Current
  Institute of Electrical and Electronics Engineers, 2020–Current
  International Society for Technology in Education, 2020–Current
  Association for Computing Machinery, 2020–Current
  The Korean Society for Educational Technology, 2020–Current
  Korea Learning Disabilities Association, 2015–Current
  Korean Society of Special Education, 2016–Current
  Council for Learning Disabilities, 2012–Current
  Council for Exceptional Children, 2009–Current
  National Council of Teachers of Mathematics, 2010–Current
  Learning Disabilities Association of America, 2012–Current
  American Educational Research Association, 2007–Current

🏫 PROFESSIONAL SERVICE

2024
- **Reviewer for Conference Proposals**

  2025 Council for Exceptional Children Annual Convention, Baltimore, Maryland

2024
- **Korean Bilingual Teacher**

  Korean Church of Bloomington Normal (Intermediate Class), Normal, Illinois

2023
- **Reviewer for Conference Proposals**

  2024 Council for Exceptional Children Annual Convention, San Antonio, Texas

2023
- **Concurrent Session Tech Support Volunteer**

  45th International Conference on Learning Disabilities, Denver, Colorado.

2023
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2022
- **Learning Disabilities Professional Development for Teachers** Committee & Instructor, Mathematics Assessment and Instruction: Geometry and Word Problems

  Korea Learning Disabilities Association, Republic of Korea

2023
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2021
- **Texas Continuous Improvement Steering Committee**

  Texas Education Agency, Austin, Texas

2023
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2019

Faculty Liaison and Facilitator for Community Workshops and Dyslexia Simulation trainings
Center for Learning Disabilities, West Texas A&M University, Amarillo, Texas

2022
|
2020

External Faculty Consultant
Special Education Research Institute, Ewha Womans University, Seoul, Republic of Korea

2021

Special Education Certification Session Training
Region 16 Education Service Center, Amarillo, TX

2021
|
2020

Dissertation Committee Member (Jiyeon Park)
The University of Texas at Austin, Austin, TX

2020

External Grant Reviewer
Research and Development Office, The Education University of Hong Kong, Hong Kong

2019
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2018

Conference Committee
Korea Learning Disabilities Association, Republic of Korea

2016
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2014

Guest Reviewer for Conference Proposals
International Conference on Learning Disabilities, Council for Learning Disabilities

2013

Teaching Assistant, Law and Disabilities (Undergraduate class)
The University of Texas At Austin, Austin, Texas

2013
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2012

Session Monitor
International Conference on Learning Disabilities, Austin, Texas

2011
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2008

Korean Bilingual Teacher
Korean School at Austin Korean Presbyterian Church, Austin, Texas

2009
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2008

Chairman
Korean Student Association for Special Education, Austin, Texas

2008
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2007

Homework Tutor and Assistant, Korean ESL Class
Mathews Elementary School, Austin, Texas

2007

Teaching Assistant, Resource Room
Murchison Middle School, Austin, Texas

2005

Interpreter and Assistant
Seoul International Wheelchair Marathon, Seoul, Republic of Korea

2004

Teaching Assistant, Special Class
Chungdam High School, Seoul, Republic of Korea

2004

Teaching Assistant, Supporting Students with Emotional and Behavioral Disorders
Miral School for Students with Emotional or Behavioral Disorders, Seoul, Republic of Korea

2002 ● **Teaching Assistant**, Supporting Students with Intellectual Disabilities

Jungae School for Students with Intellectual Disabilities and Emotional or Behavioral Disorders, Seoul, Republic of Korea

2002 ● **Teaching Assistant**, Supporting Students with Physical Disabilities

Yonsei Rehabilitation School, Seoul, Republic of Korea

2002 ● **Vice Chairman**

Student Council for Special Education, Seoul, Republic of Korea

2001 ● **Private Math Tutor**

Visually Disabled High School Student, Seoul, Republic of Korea

2001 ● **Teaching Assistant**, Special Class

Oryu Girls' Middle School, Seoul, Republic of Korea

2001 ● **Teaching Assistant**, Computers and Homepages

Nanum Study Room and Somang Day-Care Center, Seoul, Republic of Korea

2000 ● **Teaching Assistant**, Supporting Students with Physical Disabilities

Yonsei Rehabilitation School, Seoul, Republic of Korea

2000 ● **Teaching Assistant**, Supporting Students with Intellectual Disabilities

Jungae School for Students with Intellectual Disabilities and Emotional or Behavioral Disorders, Seoul, Republic of Korea

🏫 COLLEGE/DEPARTMENT/UNIVERSITY SERVICE

Current
|
2024 ● Illinois State University, Normal, IL

Department

· Presented at the Future Teacher Conference session, 2024
· Elected as a member of the doctoral programs committee (two-year term), 2024

Current
|
2024 ● Illinois State University, Normal, IL

College

· College of Education research committee, 2024
· Faculty volunteer for the Back to School event for all education students, 2024

2024
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2020

West Texas A&M University, Canyon, TX

Department

· Undergraduate special education program chair, 2023
· Teacher educator standards committee, 2022–2023
· Panhandle Alternative Certification for Educators Program development and revision, 2020, 2022–2023
· Department of Education's scholarship committee & co-chair, 2021–2023
· Undergraduate application faculty review Committee (Educator Preparation Program), 2021–2023
· Graduate admissions committee, 2020–2023
· Special education faculty search committee, 2021
· Curriculum development committee, 2020

2024
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2019

West Texas A&M University, Canyon, TX

College

· Faculty volunteer for the University's Dia de los Muertos event, 2021–2022
· Engaged in the dyslexia awareness month proclamation at City Hall, 2019–2021

2024
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2019

West Texas A&M University, Canyon, TX

University

· Planning committee for Distinguished Lecture Series, 2023
· Committee and faculty liaison at the Center for Learning Disabilities, 2019–2023
· Center for Learning Disabilities coordinator of research, 2020–2023
· Faculty committee at Kilgore Research Center, 2020–2023
· Student endowment scholarship committee, 2021–2023

2024
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2020

West Texas A&M University, Canyon, TX

Advisor/Mentor/Thesis Committee

· Academic advisor (Educational Diagnostician M.Ed. & Leadership in Curriculum and Instruction M.Ed. Special Education Program), 2020–2023
· Advisor & monitor for Panhandle Alternative Certification for Educators Program (Special Education), 2021–2023
· Faculty mentor for Attebury Honors Program, 2021–2022
· Advising undergraduate students in the tips on TExES study & conference, 2020–2022

2019
|
2018

Jeonju University, Jeonju, Republic of Korea

Department

· Problem-based learning team coordinator, 2019
· Member of freshman commissioner, 2019
· Service-learning project team coordinator, 2018–2019

2019

Jeonju University, Jeonju, Republic of Korea

College

· Guest lecturer - prevention and duty to report abuse of people with disabilities, 2019

2019
|
2016

Jeonju University, Jeonju, Republic of Korea

University

· Health EduSTAR planning and evaluation team manager, 2018
· Health EduSTAR local Community Service Team Member, 2016–2017

2019
|
2016

Jeonju University, Jeonju, Republic of Korea

Advisor/Mentor/Thesis Committee

· Mentor of first-year college students from low socioeconomic status backgrounds, 2018–2019
· Dissertation committee member (Minchul Song), 2018
· Dissertation committee member (Seonok Kim), 2017
· Thesis committee member (Geumju Han, Hyunjoo Shin), 2017
· Advisor of Startup Club, 2017
· Advisor of Study Club, 2016

🖥 TRAINING

2024

Center for Integrated Professional Development, Research and Sponsored Programs, Milner Library, Illinois State University, USA

New Faculty/Course Instructor Orientation
Preparing your Syllabi, Getting Started with Research, Equity in the College Classroom, Milner Library Orientation, Technology Orientation

2024

American Educational Research Association, Remote, USA

Artificial Intelligence Uses in Education Research

2024

Udemy, Remote, USA

AI Agents, MultiAgent AI Systems, crewAI , Agentic Automation

2023

Statistical Horizons, Remote, USA

Using Large Language Transformer Models for Research in R

2023

Korean Society for Educational Evaluation

Understanding and Analyzing the Process Data in PISA

2023

Statistical Horizons, Remote, USA

Extracting, Manipulating, and Analyzing Social Media Data Materials

2023
|
2022

Region 16 Education Service Center

Texas Instructional Leadership Training

2022

Institute for Research on Innovation and Science, Remote, USA

Joining the Data Revolution: Big Data in Education and Social Science Research

2022

What Works Clearinghouse, Institute of Education Sciences, Remote, USA

Single-Case Design Standards Training

2021

NAEP Research and Development, Institute of Education Sciences, Remote, USA

2021 EdSurvey Large-Scale Data Analysis Training Series

2021 ● Bigdata Learning Center, Remote, Republic of Korea

R for Text Analysis (Web Crawling)
Learning Machine Learning Algorithms and Modeling (Python)
Scraping for Data Analysis and Building My Own DB (Python)

2021 ● Statistical Horizons, Remote, USA

Text as Data

2021 ● West Texas A&M University, Remote, USA

Accessibility Training with Cascade Server

2021 ● The Center for Integrated Latent Variable Research, Remote, USA

Modern Longitudinal Data Analysis: Mixed Effects Models Using R

2021 ● ExitCertified (Tech Data), Remote, USA

Developing on AWS

2020 ● ExitCertified (Tech Data), Remote, USA

AWS Technical Essentials

2019 ● West Texas A&M University, USA

Field Supervisor Coaching Training for Advanced Certification Candidates

🖥 PRACTICUM AND STUDENT TEACHING

2008 ● **Math and Reading Tutor**

Metz Elementary School, Austin, Texas

2008 ● **Tutor of HOSTS (Help One Student to Succeed) program**

Zavala Elementary School, Austin, Texas

2005 ● **English Teacher, General Education Class**

Gwangjin Middle School, Seoul, Republic of Korea

2004 ● **Special Education Teacher**

Miral School for Students with Emotional or Behavioral Disorders, Seoul, Republic of Korea

2001 ● **Violin Tutor**, Supporting Students with Physical Disabilities

Yonsei Rehabilitation School, Seoul, Republic of Korea

2001 ● **Teaching Assistant**

Miral School for Students with Emotional or Behavioral Disorders, Seoul, Republic of Korea