Jiangmei Yuan

Assistant Professor of Instructional Design and Technology
Department of learning Sciences and Human Development
College of Education and Human Services
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jiangmei.yuan@mail.wvu.edu

EDUCATION

2016 Ph.D., Learning, Design, and Technology, The University of Georgia, Athens, GA
2012 M.S., Information Media, St. Cloud State University, St. Cloud, MN
2009 M.A., Teaching English as a Second Language (TESL), St. Cloud State University, St. Cloud, MN
2003 B.A., English, Southwest University, Chongqing, China

PUBLICATIONS

Peer-Reviewed Journal Articles

Published

Yuan, J., Kim, C., Hill, R. & Kim, D. (in press). Robotics integration for learning *with* technology. *Contemporary Issues in Technology and Teacher.*

Kim, C., **Yuan, J.**, Kim, D., Doshi, P., Hill, R. B, & Melias, E. (2019). Studying the usability of an intervention to promote teachers' use of robotics in STEM education. *Journal of Educational Computing Research, 56*(8), 1179-1212. https://doi.org/10.1177/0735633117738537 [SSCI-indexed journal; 2016 5-year impact factor: 1.179]

Kim, C., **Yuan, J.**, Vasconcelos, L., Shin, M., & Hill, R. B. (2018). Debugging during block-based programming. *Instructional Science, 46*(5), 767–787. https://doi.org/10.1007/s11251-018-9453-5 [ISI-indexed; 2016 5-year impact factor: 2.325]

Yuan, J., & Kim, C. (2018). The effects of autonomy support on student engagement in peer assessment. *Educational Technology Research and Development, 66*(1), 25-52. [ISI-indexed; 2016 5-year impact factor: 1.652]

Kim, C., Kim, D., **Yuan, J**., Hill, R. B., Doshi, P., & Thai, C. N. (2015). Robotics to promote elementary education pre-service teachers' STEM engagement, learning, and teaching. *Computers & Education*, 91, 14-31. doi: 10.1016/j.compedu.2015.08.005 [ISI-indexed; 2014 5-year impact factor: 3.227]

Yuan, J., & Kim, C. (2015). Effective feedback design using free technologies. *Journal of Educational Computing Research, 52*(3), 408-434. doi: 10.1177/0735633115571929 [SSCI-indexed journal; 2013 5-year impact factor: 0.858]

Yuan, J., & Kim, C. (2014). Guidelines for facilitating the development of learning communities in online courses. *Journal of Computer Assisted Learning, 30*(3), 220-232. [ISI-indexed journal; 2013 5-year impact factor 1.836]

Peer-Reviewed Conference Proceedings

Kim, C., **Yuan, J**., Gleasman, C., Shin, M., & Hill, R. B. (2017). Prepare pre-service early childhood teachers to teach mathematics with robots. Proceedings of the 2017 Annual Meeting of Computer-supported Collaborative Learning (CSCL).

Kim, C., Doshi, P., Thai, C., Kim, D., & **Yuan, J.** (2014). A portal designed to learn about educational robotics. Proceedings of the Cognitive Science Society.

Book Review

Yuan, J., & Bowen, R. T. (2018). Lifelong kindergarten: Cultivating creativity through projects, passion, peers, and play. Interdisciplinary Journal of Problem-Based Learning. URL: https://docs.lib.purdue.edu/ijpbl/vol12/iss2/6/

GRANT ACTIVITIES

ICU teach computational thinking: A route for preservice teachers to promote and incorporate computational thinking in future teaching of mathematics and science. NSF IUSE (2020-2022). Role: Co-PI.

ICU-Computing: A route to promote and integrate computational thinking in teaching. NSF STEM+C. ($1,426,709.00, 2019-2021). Role: Co-PI. Unfunded.

Educational robotics: Truancy diversion initiative. West Virginia Department of Education. ($80,000, 1/1/2017-12/31/2017). Role: Evaluator. Funded.

ICU-Computing: A route to promote and integrate computational thinking in teaching. NSF STEM+C. ($529,460, 2017-2020). Role: Co-PI. Unfunded. (ranked "highly competitive").

CS teacher professional development. Google CS 4 Middle School – Teacher PD Funding. ($33,370, 2017-2018). Role: Co-PI. Unfunded.

Making formative feedback in large engineering classes specific, timely and heeded. STEM Initiative Small Grants Program, University of Georgia Office of STEM Education. ($6,500, 10/1/2015-6/30/2016). Role: Co-PI. Funded.

TEACHING

West Virginia University

IDT 493A Visual Literacy (3 credits)
Delivery: Online
Level: Undergraduate
Description: The objectives of this course are to increase students' knowledge of the communicative features of visuals; how visuals can be used to inform, persuade, and motivate; how nonverbal communication is used by people; how visuals can be used in educational settings; and how to apply this knowledge to the design of visual materials.

IDT 600 IDT Theories and Models (3 credits)
Delivery: Online
Level: Graduate

Description: This course is designed for graduate students to understand the field of instructional design and technology, discover its historical perspectives, identify current and future trends, and learn theories and models that have an impact on the field.

IDT 735 Technology Integration (3 credits)
Delivery: Online
Level: Graduate
Description: This course is designed to help students integrate technologies into teaching and learning. Topics include trends in educational technology, digital divide, TPACK, learner engagement, emerging technologies for teaching and learning.

IDT 740 Design Studio (3 credits)
Delivery: Online
Level: Graduate
Description: This course is designed for graduate students to design and develop an innovative product in the field of educational technology.

University of Georgia
EDIT 7500 Technology Enhanced Learning Environments (3 credits)
Level: Graduate [Co-Instructor]
Description: This course focuses on integrating technologies into teaching and learning.

EDIT 9990 STEM Engagement and Learning Technologies (3 credits)
Delivery: Hybrid
Level: Graduate [Co-Instructor]
Description: This doctoral seminar is designed for students to review theories and research on engagement in STEM learning, explore emerging technologies, and learn to use emerging technologies to enhance STEM engagement and learning.

EDIT 7500 Technology Enhanced Learning Environments (3 credits)
Delivery: Online
Level: Graduate [Co-Instructor]
Description: This course focuses on integrating technologies into teaching and learning.

Saint Cloud State University
ESL 201 Reading and Writing (3 credits)
Delivery: Face-to-face
Level: Undergraduate
Description: This course helps international college students improve their English reading and writing.

ESL 101 Reading and Writing (3 credits)

Delivery: Face-to-face
Level: Undergraduate
Description: This course helps international college students improve their English reading and writing.

Zhongnan University of Economics and Law (China)
College English
Delivery: Face-to-face
Level: Undergraduate
Description: This course is designed for college students to improve their English.

Research Supervision

Advisor- Ed.D.

- Toi Hershman 2018-present
- Ashley Stewart 2018-present
- Robin Bowen 2017-2019

Committee Member- Ed. D.

- Jeffrey Burgazzoli 2019-present
- Vijay Raol 2018-present
- Vicki Iber 2018-present
- Christine Titus 2018-present
- Diana McCarty 2018-present
- Babriele Martin Barbosa 2018-present
- Jojo Shay 2017- present
- Lee Silverman 2016- present
- Mary Haspel (special education) 2018-2019
- Robin Younger 2018-2018

Advisor- Master's

- Bethany Schiffbauer 2019-present
- Anjelica Goldsmith 2019-present
- Nancy Mullens 2019-present
- Sophia Youngs 2018-present
- Philipa Lewin 2018-present
- Marcia Miller 2018-present
- Philip See 2018-present
- Jamie Byars 2018-2019
- Amanda Heasley 2017- 2018
- Amy Pinkerton 2017- 2018

CONFERENCE PRESENTATIONS ($^{+}$ doctoral students)

Roy, A., Kale, U., & **Yuan, J.** (2019, November). Using associated networks to evaluate content within courses. Paper to be presented at the 2019 American Evaluation

Association conference (AEA). Minneapolis, MN.

Kale, U., **Yuan, J.**, & Lucentini, N. (2019, October). Does coding mean thinking computationally? Degree of computational thinking promoted in code.org. Roundtable paper to be presented at the Association for Educational Communication and Technology (AECT) International Conference, Las Vegas, NV.

Kale, U., **Yuan, J.**, & Roy, A. (2019, October). To design or to integrate? Instructional design versus technology integration knowledge in developing learning interventions. Paper to be presented at the Association for Educational Communication and Technology (AECT) International Conference, Las Vegas, NV.

[+]Bowen, R. & **Yuan, J.** (2019, October). A design of student-led discussion enhanced by peer assessment. Paper to be presented at the Association for Educational Communication and Technology (AECT) International Conference, Las Vegas, NV.

Yuan, J. & Carver, J. (2019, April). The impact of engineering design training on pre-service teachers' STEM teaching. Poster to be presented at the American Educational Research Association (AERA) annual meeting, Toronto, Canada.

Yuan, J. & Carver, J. (2018, October). Pre-service teachers' application of science and mathematics knowledge to an engineering design project. Paper presented at the Association for Educational Communication and Technology (AECT) International Conference, Kansas City, MO.

Hill, R. B., Kim, C., & **Yuan, J.** (2018, June). Robotics and coding in primary grades. Paper presented at the International Conference on Technology and Innovation in Learning, Teaching, and Education, Thessaloniki, Greece.

[+]Bowen, R. & **Yuan, J.** (2018, April). Discussion strategies for higher education online courses. Poster presented at West Virginia University College of Education and Human Services Celebration of Scholars, Morgantown, WV.

Yuan, J., Kim, C., Vasconcelos, L., Shin, M., Gleasman, C. L., & Umutlu, D. (2017, November). A qualitative study of pre-service teachers' engineering design process. Paper presented at the Association for Educational Communication and Technology (AECT) International Conference, Jacksonville, FL.

Kim, C., **Yuan, J**., Shin, M., Lawrence, C., & Hill, R. (2017, June). Preparing pre-service early childhood teachers to teach mathematics with robotics. Paper presented at the 12th International Conference on Computer Supported Collaborative Learning, Philadelphia, PA.

Yuan, J., & Savadatti, S. (2017, April). A study of student engagement in test feedback in a large undergraduate engineering course. Paper presented at the American Educational Research Association (AERA) annual meeting, San Antonio, TX.

Kim, C., **Yuan, J**., Vasconcelos, L., Shin, M., & Hill, R. (2017, April). Prospective elementary teachers' debugging during block-based visual programming. Paper presented at the American Educational Research Association (AERA) annual meeting, San Antonio, TX.

Kim, C., **Yuan, J.**, Vasconcelos, L., & Hill, R. B. (2016, December). Use of robotics in preparing teachers to teach science. Paper presented at the Asia History, Philosophy, and

Science Teaching (HPST) Conference, Pusan, Korea.

Yuan, J. & Kim, C. (2016, October). Design of peer assessment to prepare elementary pre-service teachers' integration of robotics into STEM teaching. Paper presented at the Association for Educational Communication and Technology (AECT) International Conference, Las Vegas, NV.

Kim, C., **Yuan, J.**, Oh, J., Shin, M., & Hill, R. B. (2016, August). Productive struggle during inquiry learning. Paper presented at the European Association for Research on Learning & Instruction (EARLI) SIG 20 & SIG 26 Meetings, Ghent, Belgium.

Yuan, J., Kim, C., Kim, D. & Hill, R. B. (2016, April). Robotics integration for learning with technology. Paper presented at the American Educational Research Association (AERA) annual meeting, DC.

Yuan, J. & Kim, C. (2015, November). Design and implementation of autonomy supported peer assessment in an undergraduate course. Paper presented at the Association for Educational Communication and Technology (AECT) International Conference Indianapolis, IN.

Kim, C., **Yuan, J.**, Kim, D., Hill, R. B., Doshi, P., & Thai, C. N. (2015, August). Educational robotics: Technology to promote pre-service teachers' STEM engagement. Paper presented at the European Association for Research on Learning & Instruction (EARLI) Conference, Limassol, Cyprus.

Kim, C., **Yuan, J.**, Kim, D., Doshi, P., Thai, C. N., & Hill, R. B. (2015, April). Towards example-based learning and engagement of teachers in RoboSTEM. Paper presented at the American Educational Research Association (AERA) annual meeting, Chicago, IL.

Yuan, J., Kim, C. & Jensen, L. (2014, November). A qualitative study of students' engagement in peer assessment. Paper presented at the Association for Educational Communication and Technology (AECT) International Conference. Jacksonville, FL.

Yuan, J. (2014, August). The design of an autonomy-supportive online peer assessment environment. Paper presented at IDD@UGA: Conference for Instructional Designers and Learning Professionals. Athens, GA.

Kim, C., Doshi, P., Thai, C., Kim, D., **Yuan, J.**, & Hill, R. B. (2014, July). A portal designed to learn about educational robotics. Poster presented at the Annual Conference of the Cognitive Science Society. Quebec City, Canada.

Yuan, J., & Kim, C. (2013, November). Effective feedback design for online students using free technologies. Paper presented at Association for Educational Communication and Technology (AECT) International Conference. Anaheim, CA.

Kopcha, T. J., & **Yuan, J.** (2013, November). Social, teaching, and cognitive presence in a technology-enhanced cognitive apprenticeship during the pre-service clinical experience. Paper presented at Association for Educational Communication and Technology (AECT) International Conference. Anaheim, CA.

Yuan, J., & Orey, M. (2013, February). Audio feedback for online courses. Paper presented at the Eastern Educational Research Association (EERA), Sarasota, FL.

Yuan, J. (2012, February). Using Second Life to teach Chinese. Paper presented at the Eastern Educational Research Association (EERA), Hilton Head, SC.

Yuan, J. (2012, February). The motivating elements of computer games. Paper presented at the Eastern Educational Research Association (EERA), Hilton Head, SC.

Orey, M., **Yuan, J.**, & Er, E. (2012, February). Inductive learning: New strategy? Paper presented at the Eastern Educational Research Association (EERA), Hilton Head, SC.

AWARDS AND HONORS

2019	Nominated for the CEHS Outstanding Teaching Award, WVU
2018	AERA Division C New Faculty Mentoring Program, American Educational Research Association (AERA)
2016	National Science Foundation Early Career Award, Association for Educational Communications & Technology (AECT)
2014	Professors of Instructional Design & Technology (PIDT) Doctoral Student Award, University of Georgia, Athens, GA
2013	Structural Equation Modelling Workshop Scholarship, University of Georgia, Athens, GA
2005-2007	Selected as one of the four instructors in the department teaching exemplary classes integrating technology into teaching English, Zhongnan University of Economics and Law, Wuhan, China
2004	Second Place in English Teaching Competition, College of Foreign Language Studies, Zhongnan University of Economics and Law, Wuhan, China
2003	Selected to teach a demonstration lesson for a textbook publisher, China Higher Education Press, Zhongnan University of Economics and Law, Wuhan, China
2003	Graduation with Honor, Southwest University, Chongqing, China
2002	Honor Student, Southwest University, Chongqing, China
2002	Leadership Award, Southwest University, Chongqing, China
2002	Excellence in Teaching during Student Teaching, Southwest University, Chongqing, China
2002	Excellence in Mentoring during Student Teaching, Southwest University, Chongqing, China
2002	First-Class Scholarship, Southwest University, Chongqing, China Granted annually to 3% of the students in a cohort for excellence in academic achievement and leadership. 6 out of 203 students in my cohort received the award every year.
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PROFESSIONAL SERVICES

Journal Reviewer (Blind peer-reviewed journals)

Instructional Science	2017-Present
Teaching and Teacher Education	2016-Present
Journal of Educational Computing Research	2017-Present
Interdisciplinary Journal of Problem-Based Learning	2018

Conference Reviewer

American Educational Research Association (AERA) Annual Meeting	2018-2019
Association of Educational Communication and Technology (AECT) International Conference	2013-2015 & 2017-2018
IEEE International Conference on Advanced Learning Technologies (ICALT)	2018
IDD@UGA: Conference for Instructional Designers and Learning Professionals	2014-2016
Design Based Research Conference	2013