Eunsung Park

Curriculum and Instruction, College of Education, Tennessee Tech University, Box 5042, Bartoo Hall Room 206, Cookeville, TN 38505 • (931) 372-3116 • epark@tntech.edu • https://www.eunsungpark.com

Education

Ph.D. (2021)	Learning, Design, and Technology. Department of Learning and Performance Systems. College of Education. Penn State University, University Park, PA Dissertation: *Adaptive learning analytics dashboard and self-regulated learning support: A mixed-method case study of blended undergraduate finance course* Dissertation Advisors: Roy Clariana, Ph.D., Peggy Van Meter, Ph.D., Gabriela Richard, Ph.D., Craig Campbell, Ph.D., Andrea Gregg, Ph.D.
M.Ed. (2014)	Learning, Design, and Technology. Department of Learning and Performance Systems. College of Education. Penn State University, University Park, PA
B.S.(2002)	Computer Science Education (Minor: Education). Department of Education. Teachers College. Silla University, Busan, Korea

Professional Appointments

2022-Present	Assistant Professor in Curriculum and Instruction at College of Education, Tennessee Tech University, Cookeville, TN
2021-2022	Postdoctoral Researcher, Center for Innovation in eLearning at College of Education, Texas Tech University, Lubbock, TX
2021-2022	Instructor, College of Education, Texas Tech University, Lubbock, TX
2020-2021	Graduate Assistant/Research Assistant. John A. Dutton e-Education Institute at College of Earth and Mineral Sciences, Penn State University, University Park, PA
2015-2021	Graduate Assistant/Researcher. Learning, Design, and Technology Program. Penn State University, University Park, PA
2018-2020	Research Assistant/Learning Designer. Organization Development and Change (MPS-OD&C) and Workforce education program at College of Education. Penn State University, University Park, PA
2015-2018	Graduate Assistant/Research Assistant. Penn State World Campus Research & Development. Penn State University, University Park, PA
2014-2015	Graduate Assistant/Learning Designer. Penn State World Campus Learning Design. Penn State University, University Park, PA
2014	Learning Design Specialist. Penn State World Campus Learning Design. Penn State University, University Park, PA

2013-2014 Graduate Assistant/Researcher. Learning, Design, and Technology Program. Penn State University, University Park, PA

Research Support

External

Park, E. (Co-PI), Bhattacharya, I. (PI), Talbert, D. (Co-PI), Gupta, M. (Co-PI), Yelamarthi, K. (Co-PI). National Science Foundation (submitted)
NRT-GCR, AI: Immersive Research Traineeship in the Convergence of AI, Energy and Cybersecurity

2023-2024 *2023 Learning Analytics in STEM Education Research Institute*, North Carolina State University

Internal

2022-2023 Faculty Academy Research, Tennessee Tech University

Publications

Peer-reviewed Journal Papers and Book Chapters

Park, E., & Ifenthaler, D. (2023). Adaptive or adapted to: Sequence and reflexive thematic analysis to understand learners' self-regulated learning in an adaptive learning analytics dashboard. British Journal of Educational Technology, 54(1), 98-125. https://doi.org/10.1111/bjet.13287

Gleasman, C., Beach, J., **Park, E**., & Mathende, A. (2023). A Practical VISION for Virtual Reality and Teacher Education. In A. Fegely & T. Cherner (Eds.). Bridging the XR Technology-to-Practice gap: methods and strategies for blending extended realities into classroom instruction. AACE.

Clariana, R., & **Park, E**. (2021) Item-level monitoring, response style stability, and the hard-easy effect. Educational Technology Research and Development, 69(2), 693-710. https://doi.org/10.1007/s11423-021-09981-8

Gregg, A., Yu, J., Resig, J, Johnson, L, **Park, E.,** & Stuczynski, P. (2021). Promising educational technology meets complex system: A six-year case study of an adaptive learning project from initial exploration through the end of a pilot. Journal of Formative Design in Learning, 5(1), 62-77. https://doi.org/10.1007/s41686-021-00057-7

Shearer, R., & **Park, E.** (2019). Theory to practice in instructional design. In M. Moore & W. Diehl (Eds.). Handbook of distance education. Routledge. https://doi.org/10.4324/9781315296135-21

Shearer, R., & **Park, E**. (2019). The Theory of Transactional Distance. In I. Jung (Ed.). Open and Distance Education Theory Revisited. Springer. https://doi.org/10.1007/978-981-13-7740-2_4

Hristova, A. G., Bonafini, F. C., Jablokow, K. W., Bayeck, R. Y., & **Park, E.** (2017). How MOOC reality informs distance education, online learning, and connectivism. Current Issues in Emerging eLearning, 4(1), 7.

Zhang, Q., Peck, L. K., Hristova, A., Jablokow, K. W., **Park, E.,** & Bayeck, R. (2016). Exploring the communication preferences of MOOC learners and the value of preference-based groups: Is grouping enough?. Educational Technology Research and Development, 64(4), 809-837. https://doi.org/10.1007/s11423-016-9439-4

Peer-reviewed Proceedings

Park, E., & Cheon, J. (2023). Exploring strategic differences in debugging between two groups with different levels of computational thinking competency: Implications for teaching strategies. Proceeding of US-Korean Conference.

Park, E., & Cheon, J. (2022). Characteristics of high and low performing students' computational thinking facets based on structural topic modeling. Proceeding of SITE international (pp. 61-66). Association for the Advancement of Computing in Education (AACE). https://www.learntechlib.org/p/220711/

Huang, M., Fan, R., **Park, E.,** & Cheon, J. (2022). Exploring instructional strategies for computational thinking concepts and practices in higher education. Proceeding of SITE international (pp. 16-21). Association for the Advancement of Computing in Education (AACE). https://www.learntechlib.org/p/220704/

Park, E., & Cheon, J. (2021). Demonstration of a K-12 online teaching 101 training for pre-service teachers with the Quality of Online Education (QOE) framework. Proceeding of SITE Interactive (pp. 426-430). Association for the Advancement of Computing in Education (AACE). https://www.learntechlib.org/p/220231/

Bonafini, F., Chae, C., **Park, E.**, & Jablokow, K. W. (2017). How much does student engagement with videos and forums in a MOOC affect their achievement?. Online learning, 21(4).

Invited Papers

Aldemir, T., & **Park, E.** (2017). Student Visa Approved, Beam Me Up, Scotty!: Being a Legal Alien in American Graduate School. TechTrends, 61(3), 210. https://doi.org/10.1007/s11528-017-0180-6

Working Papers: Manuscript under Review

Park, E., & Cheon, J. (2023). Exploring debugging challenges and strategies in computational thinking education using structural topic model: A comparative analysis of high and low-performing students. Targeted at the Journal of Educational Computing Research.

Park, E., & Ifenthaler, D. Adaptive learning design and student's self-regulated learning: Theory to practices. Targeted at the Computers in Human behavior.

Presentations

Refereed Presentations

Park, E., & Ifenthaler, D. (submitted). Decoding learning success: Decision Tree Analysis of Time & Performance in adaptive learning systems. *2024 Annual meeting of American Educational Research Association (AERA).* Philadelphia, PA.

Yang, T., Cheon, J., & **Park, E.** (2023). Investigating Which Considerations of Pre-service Teachers Are Not Reflected with Their Technology Integration Self-efficacy. *2022 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Orlando, FL.

Park, E., & Cheon, J. (2023). Debugging practices of high and low performing students' Scratch programming using structural topic modeling. *2022 Annual meeting of American Educational Research Association (AERA).* Chicago, IL.

Park, E., & Cheon, J. (2023). Exploring strategic differences in debugging between two groups with different levels of computational thinking competency: Implications for teaching strategies. *2023 US-Korean Conference Korean-American Scientists & Engineers Association (KSEA).* Dallas, TX.

Park, E., & Cheon, J. (2022). Comparison of computational thinking competencies in higher education: A Structural Topic model. 2022 Joint Research Seminar of Creative Problem Solving with SW, AI, CT & Data. The Institute of Future Talent in Gyeongin National University of Education, South Korea.

Huang, M., Cheon, J., **Park, E.,** & Fan, R. (2022). Investigating challenges of debugging tasks in an undergraduate computational thinking course. *2022 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Las Vegas, NV.

Park, E., & Ifenthaler, D. (2021). Understanding how students control their learning in adaptive learning environments. *2021 Annual meeting of American Educational Research Association (AERA)*.

Park, E., & Cheon, J. (2021). Demonstration of a K-12 online teaching 101 training for pre-service teachers with the Quality of Online Education (QOE) framework. Association for the Advancement of Computing in Education (AACE).

Park, E., Gregg, A., Clariana, R. B., Yu, J. & Resig, J. (2020). Self-regulated learning and adaptive learning analytics dashboards: A reflexive thematic analysis [presentation]. *2020 Annual Meeting of American Educational Research Association (AERA).* San Francisco, CA. http://tinyurl.com/s3gxcul (Conference Canceled)

Park, E., Gregg, A., Clariana, R., Resig, J., & Yu, J. (October 22, 2019). Adaptive learning: Lesson learned from students' learning experiences through a self-regulated learning framework [presentation]. *2019 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Las Vegas, NV.

Park, E. (2018). Adaptive learning for all. Panel Discussion of research in text mining, social network analysis, learning analytics, & adaptive learning [presentation & panel]. *2018 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Kansas City, MO.

Gregg, A., **Park, E**., Johnson, L., & Resig, J. (2018). Personalized learning in action: lessons from a multi-semester adaptive learning pilot across disciplines [presentation]. *2018 Annual meeting of the Association for Educational Communication and Technology (AECT).* Kansas City, MO.

Park, E., Gregg, A., Resig, J., & Johnson, L. (2018). Students', faculty members' and learning designers' experience in adaptive learning [presentation]. *2018 Annual meeting of the International Workshop on Advanced Learning Sciences (IWALS).* Pittsburgh, PA.

Gregg, A., Johnson, L., & **Park, E.** (2017). Adaptive learning and returning adult online students [presentation]. *2017 Annual meeting of the Adult Education Research Conference (AERC)*. Norman, OK.

Bonafini, F., Chae, C., **Park, E.**, & Bayeck, R. (2017). How much does student engagement with videos and forums in a MOOC affect their achievement? [presentation]. *2017 Annual Meeting of American Educational Research Association (AERA).* Washington, DC.

Park, E., Bonafini, F., & Chae, C. (2016). MOOCs, student participation and achievement [presentation]. *2016 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Las Vegas, NV.

Bayeck, R., Bonafini, F., Hristova, A., Zhang, Q., **Park, E.**, Jablokow,W.K. (2016). Massive open online course groups: Participants' experiences and perceptions [presentation*]. 2016 Annual Meeting of American Educational Research Association (AERA).* Washington, DC.

Bonafini, F., **Park, E.**, & Chae, C. (2016). Classifying MOOC participants according to their creativity style [presentation]. *2016 Annual Meeting of Harvard Student Research Conference*. Cambridge, MA.

Seo, J., & **Park, E**. (2015) More accessible, more potential: Simple tips for online accessibility [presentation]. *Technology Learning*. Blue bell, PA.

Zhang, Q., Tang, H., & **Park, E.** (2015). Formation of self-organized study group outside MOOCs – An example with Chinese students [presentation], *2015 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Indianapolis, IN.

Park, E. (2014). Designers for Learning Design Showcase [showcase]. *2014 Annual Meeting of the Association for Educational Communication and Technology (AECT)*. Jacksonville, FL.

Kim, K., Clariana, R., & **Park, E.** (2013). Computer supported collaborative learning: Independent and interdependent work [paper]. *2013 Annual Meeting of the Association for Educational Communication and Technology (AECT).* Anaheim, CA.

Kim, K., Clariana, R., & **Park, E.** (2013). Bilinguals' domain knowledge structure: How cognitive processing in second language (L2) interacts with first language (L1) [paper*]. 2013 Annual meeting of the Association for Educational Communication and Technology (AECT)*. Anaheim, CA.

Invited Presentations and Webinars

Shearer, R., Heiser, R., **Park, E**., & Yu, J. (November 12, 2020). Debate as an activity to promote deep learning [presentation]. *2020 Penn State National Distance Learning Week, Penn State World Campus*. University Park, PA.

Shearer, R, & **Park, E.** (November, 2019). Instructional Design in Distance Education: From Theory to Practice [presentation]. *American Center for the Study of Distance Education Webinar Series*. University Park, PA.

Resig, J., Gregg, A., **Park, E.**, Yu, J., Johnson, L., Wiedenhoeft, J., & Balashanmugam , P. (July 23, 2019). Your learning path is whatever you make it: Exploring the past, present, and future of adaptive learning [presentation]. *2019 Penn State Learning Design Summer Camp (LDSC), Penn State University*. University Park, PA.

Park, E., Yu, J., Gregg, A., Resig, J., Johnson, L., Stuczynski, P., & Robbins, E. (2019). Adaptive learning: Multiple perspectives learned from pilots at Penn State [presentation]. *2019 Annual Meeting of the Teaching and Learning with Technology Symposium (TLT), Penn State University*. University Park, PA.

Resig, J., Johnson, L., Gregg, A., **Park, E.**, & Yu J (2018). Exploring adaptivity: Overview of an adaptive learning pilot in online and hybrid courses. [Webinar]. *2018 Penn State National Distance Learning Week, Penn State University.* University Park, PA.

Shearer, R., Gregg, A., Johnson, L., Ralston-Berg, P., Raup, A., **Park, E**., Yu, J., Peng, X., Aldemir, T., & Tusler, D. (2018). World Campus Learning Design Research and Development: Project overview [presentation]. *2018 Penn State World Campus Open House, Penn State World Campus.* University Park, PA.

Gregg, A., Johnson, L., Resig, J., Troyan, M., Hicks, M., & **Park, E.** (2018). Balancing risk and reward: multi-semester adaptive learning pilot [presentation]. *2018 Penn State Learning Design Summer Camp (LDSC), Penn State University.* University Park, PA.

Ralston-Berg, P., **Park, E.**, & Johnson, L. (2017). Adaptive learning, from theory to practice [presentation]. Presented at the *John A. Dutton e-Education Institute, Penn State University*. University Park, PA.

Gregg, A., Johnson, L., & **Park, E**. (2017). Adaptive learning pilot overview [presentation]. *2017 Penn State World Campus Monthly meeting, Penn State World Campus.* University Park, PA.

Zhang, Q., **Park, E.**, & Bayeck, R. (2015). Understanding the impact of groups in MOOCs [poster]. *2015 Annual Meeting of Teaching and Learning with Technology Symposium (TLT), Penn State University.* University Park, PA.

Zhang, Q., & **Park, E.** (2015). Understanding the impact of groups in MOOCs [paper]. *2015 Annual Meeting of Teaching and Learning with Technology Symposium (TLT)*. University Park, PA.

Research

Texas Tech University, USA

Principal-Investigator for computational thinking in undergraduate programming courses (2021-present)

Principal-Investigator for K-12 pre-service teachers' online teaching training project (2021-2022)

Pennsylvania State University, USA

AERA Research Collaboration with Dr. Dirk Ifenthaler (2020- present)

Principle-Investigator (IRB: STUDY00013744) for Knowledge structure and sharing in synchronous group debates, and development for knowledge structure measurement software (2019- 2022)

Co-Investigator (IRB: STUDY00007271) for Adaptive learning pilot study funded by Penn State World Campus (2017-2020)

Teaching and Invited Speaker

University Level

Curriculum and Instruction, Tennessee Tech University

Governor's School For Emerging Technologies (AI and data analysis) (SU 2023)

Lab and Field Experiences in Education/Technology Focus (CUED 7801) (SP 2023)

Instructional Design (CUED 7510) (SP 2023, FA 2023)

Production of Instructional Materials (CUED 6430) (FA 2022, SP 2023, SU 2023, FA 2023)

Designing Integrated Technology Environments (CUED 7530) (FA 2022)

Educational and Instructional Technology, Texas Tech University

Instructor (undergraduate course)

Computing and Information Technology (EDIT 2318) (FALL 2021)

Workforce Education Program, Pennsylvania State University

Co-instructor (face-to-face graduate course)

Technologies for Work Effectiveness (WFED 403) (FALL 2019)

Life Long Learning and Adult Education Program, Penn State World Campus

Teaching Assistant (online doctoral course)

Course design and development in distance (ADTED 531) with Dr. Rick Shearer (2017- 2020)

College of Engineering, Pennsylvania State University

Teaching Assistant (MOOC, https://www.coursera.org/learn/creativity-innovation)

Creativity, Innovation, and Change with Dr. Jack Matson and Dr. Kathryn W. Jablokow

American Center for the Study of Distance Education Webinar Series, Pennsylvania State University

Invited guest speaker, Instructional Design in Distance Education: From Theory to Practice . [Webinar]. Retrieved from https://sites.psu.edu/acde/2019/03/27/march-27-2019-2pm-est-instructional-design-in-distance-education-from-theory-to-practice-rick-shearer-and-eunsung-park/

K-12

Computer Science Education, Office of Education, Ministry of Education, South Korea

Secondary school technology instructor (2003-2010, 2012-2013)

Research Support

External

Park, E. (Co-PI), Bhattacharya, I. (PI), Talbert, D. (Co-PI), Gupta, M. (Co-PI), Yelamarthi, K. (Co-PI).
National Science Foundation (submitted)
NRT-GCR, AI: Immersive Research Traineeship in the Convergence of AI, Energy and Cybersecurity

2023-2024 *2023 Learning Analytics in STEM Education Research Institute*, North Carolina State University

Internal

2022-2023 Faculty Academy Research, Tennessee Tech University

Course Development

Tennessee Tech University, USA
CUED 7540 Applied Instructional Design & Learning Analytics
CUED 6430 Design Studio: Production of Instructional Materials
CUED 7510 Instructional Design Foundations

Texas Tech University, USA
Online Teaching and Learning for Preservice Teachers

Pennsylvania State University, USA

Technologies for Work Effectiveness (WFED 403) (FALL 2019)

Awards & Honors

2023 LASER Institute Scholar, University of North Carolina State

2021 AERA Division C Graduate Student Conference Fund, AERA

2020 Research liaison at Dutton e-Education Institute at College of Earth and Mineral Sciences, Penn State University

2020 SSRL SIG's virtual Graduate Student (vGSMP), AERA

2019 Graduate Student Dissertation and Research in text mining, social network analysis, learning analytics, & adaptive learning, AECT

2013-2020 Graduate Student's Travel Award, College of Education, Penn State University

2015 Outreach and Online Education Innovation Award, Penn State University

Services

University Level Committee

AI Force (2023), Tennessee Tech University

EPP Digital Equity and Transformation representative, US Department of Education & ISTE

Reviewer

Journal of Computer Assisted Learning (2023)

AERA Annual Meeting Submissions Division C (2024, 2023, 2022, 2020, 2019)

AECT Annual Meeting Submissions (2020, 2022)

Journal of Educational Computing Research (2020)

Association for Educational Communications and Technology Proposals (2016)

Penn State Center for Online Innovation in Learning (2013-2016)

Learning Designer

2013 Designer for Designers for Learning (designersforlearning.org)

Graduate Administrative Assistant

2013, 2014 Association for Educational Communications and Technology

2013 Pennsylvania Educational Technology Expo and Conference

Lecturer

2009, 2010, 2012 Busan Education Office, Busan Education Research & Information Center

2010, 2012 BBS Busan Middle and High School

Professional Affiliations

American Educational Research Association (AERA)

Association for Educational Communication and Technology (AECT)

Learning Analytics and Knowledge (LAK)

International Society of the Learning Sciences (ISLS)

Korean Edutech/Learning Science Researcher Network (KELS)

Korean-American Educational Research Associate (KAERA)

Korean-American Scientists and Engineers Association (KSEA)

Skills

Proficient in statistical and qualitative analysis and software (R, SPSS, MAXQDA, NVivo)

Intermediate Programming Languages – Python, HTML, C, C++, PHP, ASP, JAVA, CSS, Java Script, XML

Other Applications – Adobe Captivate, Photoshop, Illustrator, Premiere