

Heejung An, Ed.D.

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ORCID: <https://orcid.org/0000-0002-5783-2129>**(a) Educational Background**

Teachers College, Columbia University:	Instructional Technology and Media Program Department of Mathematics, Science, and Technology, Ed.D.	2004
New York University:	Educational Communication and Technology, School of Education, M.A.	1996
Ewha Womans University:	Biology, B.S. College of Natural Sciences (with certification program in K-12 science education)	1993

(b) Additional Training

Research Training Institute on Cluster-Randomized Trials:	Institute of Education Sciences (IES) hosted by Northwestern University	Summer, 2016
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(c) Professional Experience

Full Professor:	College of Education, William Paterson University	2015–Present
External Evaluator	Smithsonian Institution: Smithsonian Center for Learning and Digital Access	Summer, 2020-Summer, 2021
Interim Associate Dean:	College of Education, William Paterson University	Winter & Spring, 2018
Associate Professor:	College of Education, William Paterson University	2010–2015
Director:	M. Ed in Curriculum & Learning College of Education, William Paterson University	2012- Present
Co-Director:	M. Ed in Curriculum and Learning College of Education, William Paterson University	2010-2011
Assistant Professor:	College of Education, William Paterson University	2005–2010
Adjunct Faculty:	Stony Brook University & Grand Canyon University of Phoenix	2003–2005
Research Assistant:	Kumon Evaluation Project, Teachers College, Columbia University	2001-2002
Digital Curriculum Designer:	Teachers College, Columbia University: Distance Learning Project	1999-2000
Research Associate:	Korea Telecom, Research & Development South Korea	1996-1998
Lab Analyst:	Dong-A Pharmaceutical Co. LTD. Enzyme Division South Korea	1993-1995

(d) Publications

Books:

- An, H. (Ed.) (2017). *Handbook of research on efficacy and implementation of study abroad programs for P-12 teachers*. Hershey, PA, IGI Global.
- An, H., Alon, S., & Fuentes, D. (Eds.) (2014). *Tablets in K-12 education: Integrated experiences and implications*. Hershey, PA: IGI Global.

Refereed Journal Articles:

- An, H., Sesime, A., Tutela, J., Berg, C., & Bartle, G. (2021). Supporting university faculty for assessments during the COVID-19 pandemic: challenges and opportunities. *Intersection: A Journal at the Intersection of Assessment and Learning*, 2(4).
<https://aalhe.scholasticahq.com/article/28155-supporting-university-faculty-with-online-assessments-during-the-covid-19-pandemic-challenges-and-opportunities>
- An, H., Sung, W., & Yoon, S. (under revision). Implementation of Learning by Design in a synchronized online environment for teaching educational robotics to inservice teachers.
- An, H., & Sung, W. (under revision). Hands-on, minds-on, hearts-on, social-on: A collaborative makerproject integrating arts in a synchronous online environment for teachers.
- Fattal, L., & An, H. (under review). Citizen scientists and artists: Integrating arts and technology to teach the effects of climate change on bird migration. *The STEAM Journal*.
- Fattal, L., & An, H. (2019). STEAM: Choreographing the phases of the Moon. *Journal of Dance Education*, 19(4), 178-182.
- An, H. & Pozzi, E. (2018). Developing a makerspace as a vehicle for partnership building: The role of teacher education programs in guiding teachers, librarians, and communities. *The STEAM Journal*, 3(2), Article 12. <https://scholarship.claremont.edu/steam/vol3/iss2/12/>
- An, H., Wilder, H., & Lim, K. (2011). Preparing elementary preservice teachers from a non-traditional student population to teach with technology. *Computers in the Schools*, 28(2), 170-193.
- An, H. & Shin, S. (2011). The impact of urban district field experiences on four elementary preservice teachers' learning regarding technology integration. *Journal of Technology Integration in the Classroom*. 2(3), 101-107.
- An, H. & Seplocha, H. (2010). Video-sharing websites: Tools for developing pattern languages in children. *Young Children*, 65(5), 20-25.
- Wilder, H., Ferris, P., & An, H. (2010). Exploring international multicultural field experiences in educational technology. *Multicultural Education & Technology Journal*, 4(1), 30-42. "Highly Commended Award Winner" at the Literati Network Awards for Excellence 2011.
- An, H., & Wilder, H. (2010). A bottom-up approach for implementing electronic portfolios in a teacher education program. *Journal of Digital Learning in Teacher Education*, 26(3), 84-91.

- An, H., Shin, S., & Lim, K. (2009). The effects of different instructor facilitation approaches on students' interactions during asynchronous online discussions. *Computers & Education*, 53(3), 749-760. doi:10.1016/j.compedu.2009.04.015 (*Top 25 hottest articles in Computers & Education, 2009*)
- An, H., Kim, S., & Kim, B. (2008). Teacher perspectives on online collaborative learning: Factors perceived as facilitating and impeding successful online group work. *Contemporary Issues in Technology and Teacher Education (CITE) Journal*, 8(1), 65-83.
<http://www.citejournal.org/vol8/iss1/general/article1.cfm>
- An, H. & Kim, S. (2007). The perceived benefits and difficulties of online group work in a teacher education program. *International Journal of Instructional Technology and Distance Learning*, 4(5), 3-19. http://www.itdl.org/Journal/May_07/article01.htm
- An, H. (2007). Designing an effective interactive web-based coding environment for novice learners. *Innovate: Journal of Online Education*, 4(1), Article 1.
<https://nsuworks.nova.edu/innovate/vol4/iss1/3>
- Chandler, T., & An, H. (2007). Using digital mapping programs to augment student learning in social studies. *Innovate: Journal of Online Education*, 4(1), Article 2.
<https://nsuworks.nova.edu/innovate/vol4/iss1/2/>
- Kaplan, D. E., & An, H. (2005). Facts, procedures, and visual models in novices' learning of coding skills. *Journal of Computing in Higher Education*, 17(1), 43-70.

Magazine Articles:

- An, H., Morgenlander, M., & Seplocha, H. (2014). Children's gadgets: Smartphones and tablets: Tips for helping children to use technology effectively and safely. *Exchange*, September/October 2014, 69-74.

Evaluation Reports:

- An, H. (2021). Arts integration and cultural competency professional support for New Jersey educators. *Smithsonian Center for Learning and Digital Access, Washington D. C.* (This was an evaluation study conducted with the Smithsonian Institution, William Paterson University of New Jersey, Rutgers University, and the Paterson, NJ School District).

Book Chapters:

- An, H., Hong, C. E., & Fuentes, D. (2017). The benefits and limitations of a short-term study abroad program to prepare teachers in a multicultural society. In H. An (Ed.), *Handbook of research on efficacy and implementation of study abroad programs for P-12 teachers*, Hershey, PA: IGI Global.
- An, H., Alon, S., & Fuentes, D. (2014). iPad implementation models in NJ K-12 school environments. In H. An, S. Alon, & D. Fuentes (Eds.), *Tablets in K-12 education: Integrated experiences and implications*. Hershey, PA: IGI Global.
- Alon, S., An, H., & Fuentes, D. (2014). The iPad: A mathematics classroom tool for implementing

the Common Core State Standards' technology vision. In H. An, S. Alon, & D. Fuentes (Eds.), *Tablets in K-12 education: Integrated experiences and implications*. Hershey, PA: IGI Global.

- Fuentes, D., An, H., & Alon, S. (2014). Mobile devices and classroom management: considerations and applications for effective use in an elementary school classroom. In H. An, S. Alon, & D. Fuentes (Eds.), *Tablets in K-12 Education: Integrated experiences and implications*. Hershey, PA: IGI Global.
- Estevez-Menendez, M., An, H., & Strasser, J. (2014). The effects of interactive multimedia iPad e-books on preschoolers' literacy. In H. An, S. Alon, & D. Fuentes (Eds.), *Tablets in K-12 education: Integrated experiences and implications*. Hershey, PA: IGI Global.
- Fuentes, D., An, H., & Alon, S. (2014). Using mobile devices selectively: A deductive pedagogy for the intentional use of apps to support K-5 literacy development. In H. An, S. Alon, & D. Fuentes (Eds.), *Tablets in K-12 education: Integrated experiences and implications*. Hershey, PA: IGI Global.
- Ames, L., An, H., & Alon, S. (2013). The incorporation of *Geometer's Sketchpad* in a high school geometry curriculum. In D. Polly (Ed.), *common core mathematics standards and implementing digital technologies* (pp. 102- 109). Hershey, PA: IGI Global.
- An, H., & Wilder, H. (2010). Implementing an online educational technology course in a teacher preparation program: challenges and solutions. In C. Penny, J. Leight, & S. Winterton (Eds.), *Technology leadership in teacher education: Integrated solutions and experiences* (pp. 30-44). Hershey, PA: IGI Global.

(e) Presentations

Conference Presentations- Refereed:

- An, H., & Sung, W. (In submission). Project-based learning: Incorporating the arts and technology for teaching physical science to teachers in nline Environments. *The 2021 Society for Information Technology and Teacher Education International Conference (SITE) Interactive*.
- An, H., & Sung, W. (2021). The design of online robotics course based on the Learning by Design approach. *The 2021 Society for Information Technology and Teacher Education International Conference (SITE)*, March 30 - April 2, 2021 - "SITE 2021 Outstanding Paper Award."
- An, H., Yoon, S-Y., & Samaras, T. (2020). Overcoming the digital divide: The development of a culturally responsive video-based arts integration tool for high-needs New Jersey urban schools. *Proceedings of the Fall 2020 Semiannual Conference of Korean Society for Educational Technology* (pp. 136-145). October 31, 2020, online conference.
- An, H., Norris-Bauer, N., Samaras, T., & Sandler, S. (2020). Arts integration to foster creative thinking and diversity, *National Association for Professional Development Schools Conference*, February 13-15, 2020, Atlantic City.
- An, H., Norris-Bauer, N., Samaras, T., & Sandler, S. (2019). Supporting high needs schools to

integratearts across the curriculum: Benefits and challenges, *National Association for Professional Development Schools Conference*, Atlanta, GA, February 14-16, 2019.

- An, H. (2017). Coding with *Scratch* to spark creativity for children’s writing and for music. *TheNortheastern Educational Research Association (NERA) conference*, October 20, 2017.
- Hah, Y. & An, H. (2017). Supporting the Development of Elementary Students’ Creative Writing forCoding in the Scratch Environment. In P. Resta & S. Smith (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2017* (pp. 1073-1080). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- An, H. (2016). Examination of pedagogical, mathematical, and cognitive fidelity for the use of handheldapps in elementary mathematics classrooms, *The 2016 Society for Information Technology and TeacherEducation International Conference (SITE)*, March 21-25, 2016, Savannah, Georgia.
- An, H., & Hong, C. (2015). Lessons Learned from a Fulbright-Hays Program to South Korea withTeacher Candidates and Teachers. *The 2015 Annual Conference of the National Association of International Educators (NAFSA)*. May 24-29, 2015, Boston, Massachusetts.
- Fuentes, D., An, H., & Alon, S. (2014). Developing constructivist pedagogy to support mobile learning. University Faculty Assembly (CUFA) / National Council for Social Studies (NCSS), November 19 - 21,Boston, Massachusetts.
- An, H., Alon, S., & Fuentes, D. (2014). The effects of using iPads in an urban elementary schoolclassroom, *The 2014 Society for Information Technology and Teacher Education International Conference (SITE)*, March 17 - 21, 2014, Jacksonville, Florida.
- Alon, S & An, H. (2013). Teaching with iPads to build mathematics knowledge in a 5th grade classroom. *The 12th Annual Hawaii International Conference on Education*. January 5 - 8, 2014,Hawaii, USA.
- An, H., & Alon, S. (2013). Models for using iPads in a K-12 classroom. *The Sixth InternationalConference on Ubiquitous Learning*. November 14-15, 2013. Madrid, Spain.
- Alon, S., & An, H. (2013). Appropriate usage of iPads in K-12 mathematics classrooms. *The Associationof Mathematics Teachers of New Jersey*. October 24, 2013.
- An, H., & Alon, S. (2013). iPad implementation models in K-12 school environments: an exploratorycase study, *The 2013 Society for Information Technology and Teacher Education International Conference (SITE)*, March 25-29, 2013, New Orleans, LA, USA.
- Kaplan, R., Wilder, H., An, H., Ranjan, S., Gal, H., & Martinovic, M. (2010). Techniques and outcomesof international collaborations on courses using technology. *Northeastern Educational Research Association (NERA)'s 41st Annual Conference*. October 20-22, 2010, Rocky Hill, Connecticut.
- An, H., & Wilder, H. (2010). Preparing elementary preservice teachers from a non-traditional studentpopulation to teach with technology. *The Annual Meeting of the American Educational*

Research Association (AERA). April 30 –May 4, 2010. Denver, Colorado.

- An, H., & Wilder, H. (2009). Unveiling the possibility of a bottom-up approach for implementing electronic portfolios in a teacher preparation program. Presented at the *20th International Conference of the Society for Information Technology & Teacher Education (SITE)*, Charleston, SC.
- An, H., Shin, S., & Lim, K. (2009). The impact of different instructional facilitation approaches on students' interactions and satisfaction in online course. *The Annual Meeting of the American Educational Research Association (AERA)*, San Diego, CA.
- Wilder, H., & An, H., (2009). Creating an online multicultural field experience for technology facilitator candidates. Presented at the *20th International Conference of the Society for Information Technology & Teacher Education (SITE)*, Charleston, SC.
- An, H., Shin, S., & Lim, K. (2008). The impact of different instructional facilitation approaches on students' participation during an online discussion. *The Society for Information Technology and Teacher Education International Conference (SITE)*, March 3-7, 2008, Las Vegas.
- Chandler, T., & An, H. (2008). Real-world problem solving with GIS: Incorporating GIS into the K-12 curriculum for disaster preparedness research. *The 8th Annual ESRI Education User Conference (EdUC)*, August 4-8, 2008, San Diego, CA.
- An, H., & Kim, S. (2007). Perceived factors facilitating and impeding successful online group work in a teacher education program. *Presented at the 2007 Annual Meeting of the American Educational Research Association (AERA)*. April 9 - April 13, 2007, Chicago.
- An, H., & Kim, S. (2006). The benefits and limitations of online group work in a teacher education program. In the *Proceedings of the Society for Information Technology and Teacher Education International Conference (SITE)* (pp. 2465 – 2472), March 20-24, 2006, Orlando, Florida. – “*SITE 2006 Outstanding Paper Award.*”
- An, H. (2006). Fostering In-service Teachers' Beliefs about Collaborative Learning. In the *Proceedings of Society for Information Technology and Teacher Education International Conference 2006* (pp. 1102-1105), March 20-24, 2006, Orlando, Florida.
- Chandler, T., & An, H. (2004). Do Geographical Information Systems (GIS) add value to the teaching of social studies? In *Proceedings of the Society for Information Technology and Teacher Education International Conference (SITE)*, Atlanta, Georgia, March 2004 (pp. 4764-4767). Norfolk, VA: AACE.
- Kaplan, D. E., & An, H. (2004). Facts, procedures, and models in adult learning of programming. *Poster presented at the 2004 Annual Meeting of the American Educational Research Association (AERA)*. San Diego, California.
- An, H., & Chandler, T. (2003). Using a multiple representational Web-based learning tool to help learners improve Internet searching skills. *The International Conference on Computers in Education (ICCE)*, December 2-5, 2003, Hong Kong, China.
- An, H., & Kaplan, D. E. (2002). Designs for developing schema for a markup language:

effectiverepresentations for non-programmers. *The World Conference on Educational Multimedia and Hypermedia (Ed-Media)*. June 2003, Honolulu, Hawaii

Non-Refereed Conference Presentations and Professional Development Workshops:

- An, H., & Mogillo, G. (2021). Distance Learning Efforts in High Needs Schools: Exploring the Lived Experiences of Teachers, Administrators, and Parents in a Post COVID-19 Learning Ecology, *Build & Broaden: Long-Term Impacts of Covid-19 on Latino Communities in the Tri-State Area*. Montclair State University, August 15-17 – Panel
- An, H., Samaras, T., & Lanni, M. (2021). Designing a multilingual culturally responsive video-based arts integration and digital storytelling tool for high-needs New Jersey schools. *Build & Broaden: Long-Term Impacts of Covid-19 on Latino Communities in the Tri-State Area* [Panel], Montclair State University, August 15-17, 2021- Panel
- An, H., Mongillo, G., & Tutela, J. (2021). Designing assessments and rubrics for the advanced programs to meet the CAEP Standards for Advanced Programs A1.1. *2021 NJACTE Mid-Atlantic Day of Assessment Conference*, April 15, 2021.
- An, H. (2020). Formative assessments with digital tools for online teaching, *The 11th Annual Educational Technology Conference*, November 13, 2020.
- An (2020). Research on COVID-19: Multi- and Interdisciplinary Collaborations, hosted by the Korean-American University Professors Association (KAUPA), October 22, 2020- Panel.
- An (2020). Teaching tips and technology tools for assisting with learning in a virtual environment for WPUNJ alumni educators and parents, October 20, 2020.
- An, H. (2020). Coding with Scratch to spark creativity for children's writing, *The New Jersey Future Educators Association (NJFEA) conference*, November 6, 2020.
- An, H. (2020). Art integration as a vehicle to foster diversity and enhance creativity and collaboration in science education, *Future Teachers of Color Conference*, Montclair State University, January 8, 2020.
- An, H., Sandler, S., & Samaras, T. (2019). Use of music integration across the curriculum to cultivate creative thinking, *The 11th Annual New Jersey Professional Development Schools Conference*, May 23, 2019.
- An, H., Samaras, T., & Sandler, S. (2018). Supporting the development of critical thinking through integration of the arts across the curriculum in high-needs schools. *The 10th Annual New Jersey Professional Development Schools Conference*, May 24, 2018.
- An, H., Samaras, T., Post, J., Sandler, S., Scacchetti, D., & Norris-Bauer, N. (2018). Effective Arts Integration Approaches in High Needs School Districts. *Explorations*, William Paterson University, April 12, 2018.
- An, H. (2018). Coding with *Scratch* to develop children's computational thinking and creativity, *William Paterson Professional Development Schools*, March 13, 2018.
- An, H. (2017). Coding with Scratch to spark creativity for children's writing. *The New Jersey Future Educators Association (NJFEA) Conference*, October 6, 2017.
- An, H., & Hong, C. (2017). The benefits and limitations of a short-term study abroad

program to prepare teachers in a multicultural society. *Explorations 2017, William Paterson University*, April 3, 2014, August 6, 2017.

- An, H. (2016). Using emerging technologies to facilitate science learning for elementary Students. *The New Jersey Future Educators Association (NJFEA) Conference*. October 25, 2015.
- Fattal, L., & An, H. (2016). Teaching a science methods class: incorporating technology and the arts for elementary school teacher candidates, *NJEdge STEAM Conference*, Stevens Institute, March 23, 2016.
- An, H. (2015). Power up your video-based lessons with Zaption!, *The 6th WPU Annual Educational Technology Conference*, William Paterson University. November 20th, 2015.
- An, H. & Fulbright-Hays Participants (2015). East Asian and global contents: exploring possibilities and opportunities, *The 10th Annual Teaching Asia Conference*, April 14th, 2015, William Paterson University, Wayne, NJ.
- An, H. (2014). Emergent technologies in teacher education. *The 2013 WPU Research and Scholarship Day, William Paterson University*, April 3, 2014.- Panel
- An, H. (2013). Learning about Korea with Google Earth: Panel on Korean Wave (Hallyu). *The WPU Research and Scholarship Day*, William Paterson University, April 4, 2013.
- An, H. (2013). Using iPads as teaching tools with digital natives in an elementary classroom. *The New Jersey Future Educators Association (NJFEA) Conference*. October 25, 2013.
- An, H. (2013). Introduction to the iPads. *The 3rd WPU Annual Educational Technology Conference*, William Paterson University (repeat), March 1, 2013.
- Guvercin, H., & An, H. (2012). Using iPads with English Language Learners (ELLs). *The 3rd WPU Annual Educational Technology Conference*, William Paterson University, November 30, 2012.
- An, H. (2012). Panelist: Using *Google Earth* to teach Korean culture. Panel on Curriculum Development: Diversifying Lesson Plans, *Teaching Asia Conference*. William Paterson University, April 13th, 2012.
- Alon, S., & An, H. (2012). An examination of the ways in which NJ K-12 schools use iPads. *The 2012 WPU Research and Scholarship Day*, William Paterson University, April 5, 2012.
- An, H. (2011). Making classes click with students: Using Student Response Systems (aka "Clickers"). *The 2nd WPU Annual Educational Technology Conference*, William Paterson University. December 11, 2011.
- An, H. (2011). Technology and creativity workshop for the South Korean delegation of educators. Teachers College, Columbia University, April 27, 2011.

- An, H. (2010). Educational technology integration and sharing educational technology resources for the visiting Israeli teachers and principals. *William Paterson University*. December 20, 2010.
- An, H. (2010). Using Google Earth for educative purposes. *WPU 1st Annual Educational Technology Conference*, William Paterson University, December 10, 2010.
- An, H. (2010). Technological Pedagogical Content Knowledge (TPACK). The 1st WPU Annual Educational Technology Conference, William Paterson University, December 10, 2010.
- An, H. (2010). Online technology professional development workshops (6 modules). *REFORMS Grant*, Spring, 2010.
- An, H. (2010). The impact of four teacher candidates' urban school field experiences on technology integration practices. *The 2010 WPU Research and Scholarship Day*, William Paterson University, April 1, 2010.
- Wilder, H., An, H., & Boer, P. (2009). Namibia & New Jersey: Teachers working together with technology. *International Education Week 2009: Creating Global Learning Communities*. Teachers College, Columbia University. November 16-20, 2009.
- An, H. (2009). Technology workshops. *REFORMS Grant*, William Paterson University, August 21, 2009.
- An, H. & Wilder, H. (2009). Implementing an online educational technology course in a teacher education program: Challenges and Solutions. *The 2009 WPU Research and Scholarship Day*, William Paterson University, April 2nd, 2009.
- An, H. (2009). *Integrating Google Earth into the Social Studies classroom*. Elmwood Park Memorial High School, NJ. January 28, 2009.
- An, H. (2008). Teaching East Asia through action, by using Google Earth, *Conference: Teaching Asia Through Action, Art and Activism in Society*, William Paterson University, April 10th, 2008.
- An, H., Shin, S., & Lim, K. (2008). The impact of different instructional facilitation approaches on students' interaction and sense of community in an asynchronous online discussion board. *The 2008 Research and Scholarship Day*, William Paterson University, April 3rd, 2008.
- An, H. & Leathers, S. (2007). Literacy, technology and instruction, *The 27th Annual Bilingual/ESL Conference*, William Paterson University. December 2007.
- An, H. (2007). Technology workshops. *REFORMS Grant*, William Paterson University, November 2007.
- An, H. & Leathers, S. (2006). Technology and Language Literacy (All Ages), *The 26th Annual Bilingual/ESL Conference*, William Paterson University. December 8, 2006.

(f) Courses Taught

Courses Taught at William Paterson University of New Jersey (Fall, 2005 - present)(College of Education)

- (G) Research in Education I & II (Master's Thesis Courses)
- (G) Teaching Earth and Space, and Life Sciences with the STEAM approach (newly designed)
- (G) Programming, Robotics, and Engineering in STEAM (newly designed)
- (G) Teaching Physical Science with the STEAM Approach (newly designed)
- (G) Emerging Technologies for Teaching Mathematics (newly designed)
- (G) Dynamic Web Application Development (newly designed)
- (G) Educational Technology Foundations
- (G) Designing and Evaluating Technology-Supported Learning
- (G) Integrating Technology into the Curriculum
- (UG) Introduction to Educational Technology and Assessment in P-12 Classrooms (newly designed)
- (UG) Science Methods and Assessment for Teaching K-6
- (UG) Teaching in a Technological World
- (UG) Adaptive and Assistive Technologies in Early Childhood Education

Courses Taught at Grand Canyon University of Phoenix: Online courses (2004 - 2005)
(M. Ed in Curriculum & Instruction - Instructional Technology specialization, College of Education)

- (G) Instructional Technology: Foundation & Framework
- (G) Multimedia Instructional Strategies
- (G) Research Techniques and Procedures
- (G) Educational Applications of Technology

Courses taught at Stony Brook University: Online courses (2003 - 2005)
(Advanced Graduate Certificate Program in Educational Technology, School of Professional Development)

- (G) Modern Communications: Technology Systems
- (G) Instructional Design of Educational Technology

(g) Number of Master Thesis Mentored (2010- Present)

- 2021-2022: 16 students
- 2020-2021: 8 students
- 2019-2020: 4 students
- 2018-2019: 9 students
- 2017-2018: 9 students
- 2016-2017: 10 students
- 2015-2016: 8 students
- 2014-2015: 7 students
- 2013-2014: 6 students
- 2012-2013: 8 students
- 2011-2012: 6 students
- 2010- 2011: 8 students

(h) Grants, Awards, and Fellowships

- Project Director, Inclusive Arts Integration (IAI) grant program, funded by the Geraldine R. Dodge Foundation(\$100,000), September 2021 - August 2022
Website: <https://inclusiveartsintegration.weebly.com/>
- Project Director, Arts Integration / STEAM grant program, funded by the Geraldine R. Dodge Foundation(\$100,000), September 2020 - August 2021
- Project Director, Arts Integration / STEAM grant program, funded by the Geraldine R. Dodge Foundation(\$105,000), September 2019 - August 2020.
- Project Director, Arts Integration / STEAM Grant Program, funded by the Geraldine R. Dodge Foundation (\$100,000), September 2018 - August 2019.
- NSF Grant (\$2,234,869 - Not funded): DRK-12: Teaching Trend: Type: Design and Development, 2017Title: Physical Science Education with C-STEAM in Urban Elementary School Classrooms
Role: Principal Investigator
- NSF Grant (\$2,552,353 - Not funded): DRK-12: Teaching Trend: Type: Design and Development, 2016Title: Gamifying the Elementary Physical Science Curriculum in Urban STEAM Classrooms
Role: Principal Investigator
- Project Director, Fulbright-Hays Group Projects Abroad Grant Program: "*The US-NJ-South Korea Project at William Paterson University: Exploring Korea's History, Culture, and Education System through Experiential Learning*" (\$85,000), funded by the U.S. Department of Education, October, 2013-March, 2015.
 - Website: <http://www.wpunj.edu/coe/2014fulbright-hays/>
 - Deliverable: <http://teachingaboutkorea.com/>
 - Travel Blog: <http://fulbright-hays-southkorea.blogspot.com/>
- Outstanding Paper Award, International Conference of the Society for Information Technology & Teacher Education (SITE), 2021:
Title: *The design of online robotics course based on the Learning by Design approach*
- Highly Commended Award Winner at the Literati Network Awards for Excellence, 2011:published in *Multicultural Education & Technology Journal*
Title: *Exploring international multicultural field experiences in educational technology*
- Outstanding Paper Award, International Conference of the Society for Information Technology & Teacher Education (SITE), 2006:
Title: *The benefits and limitations of online group work in a teacher education program*
- Technology-Integration Mini-Grant, William Paterson University (Spring, 2006).
- International Scholarship, Teachers College, Columbia University (2003)

- Academic Excellence Scholarship, Ewha Womans University, South Korea (1990)

(i) Media Appearances and Interviews

Newspaper:

"William Paterson University brings art lesson to inner-city kids while they study at home"
<https://www.northjersey.com/story/news/education/2020/04/17/william-paterson-university-launches-art-blog-inner-city-children/5136578002/>, *NorthJersey.com* (April 17, 2020).

"William Paterson University Finds Creative Ways to Teach Art to School Children in Paterson During Pandemic Shutdown,"
<https://www.tapinto.net/towns/paterson/sections/education/articles/william-paterson-university-finds-creative-ways-to-teach-art-to-school-children-in-paterson-during-pandemic-shutdown>, *Tapinto Paterson* (April 8, 2020).

"William Paterson Becomes First in N.J. to Offer 'STEAM' Graduate Degree" (2019):
<https://www.roi-nj.com/2019/10/07/education/william-paterson-becomes-first-in-n-j-to-offer-steam-graduate-degree/>

"William Paterson University Launches a New Concentration in its Master of Education Curriculum to Help K-8 Teachers "STEAM" Ahead," *William Paterson News* (September 9, 2019).

"Fulbright-Hays Program: US Schools to Have Lessons on Korea"
http://www.koreatimes.co.kr/www/nation/2019/07/181_163695.html *The Korea Times* (August 27, 2014).

"William Paterson University Awarded Grant to Fund South Korea Study," *The Record* (2013).

Radio:

"Fulbright-Hays Program: Korean History Education in US classrooms," tbs eFM This Morning (in South Korea): <http://tbs.seoul.kr/eFm/index.do> (July 15, 2014).

TV:

"Fulbright-Hays Program: U.S. Teachers Delve into Korean History," *Arirang TV* (August 2014). The 2nd WPU Annual Educational Technology Conference (2012) - WMBC News (December 2012)

(j) Service

University

- Member, Instructional Designer Search Committee (Summer 2021- present).
- Department representative: Participated in scholarship colloquium and reception and pre-doctoralfellows program (April 4, 2021).
- Co-Chair, Middle States Self-Study: Working Group 2 (February 2019 – March 2021).
- College Representative, Senate Assessment Council (September 2018 - Present).
- Member, Search Committee for Manager of Youth Programs and Educational Conferencing (Spring,2020).
- Dissertation Committee Member (reader) for the Doctor of Nursing Practice Program (Spring 2014 –Fall 2017)
- Member, Associate Provost Search Committee (October 2016 - March 2017)
- College Representative, Senate Council: Graduate Program Policy (September 2016 - December2017).
- College Representative, Digital Measures Working Group (August 2016 - February 2017).
- Member, Senate Ad hoc Committee for Administrator Evaluations (Fall 2012- Spring 2014)
- Member, Cross Cultural Arts Festival (CCAF) Steering Committee (2013)
- College Representative, Faculty Assigned Release Time (ART) Committee (2010 - 2011, 2011-2012)
- College Representative, University Promotion Committee (December 2016 - February 2017, 2012-2013).
- Co-Chair (2007-2008, 2009 - 2010), Faculty Senate Research Council (2006 - 2010)
- Asian Cultural Festival: Korea Table Committee (2006, Fall)
- Co-Chair (2007-2008, 2009 - 2010), Faculty Senate Research Council (2006 - 2010)
- University IT Advisory Committee (2007-2008; 2008 - 2010)
- Learning Spaces Committee (2007 – 2009)
- Technology Across the Curriculum (TAC) (2005 - 2009)
- Co-Coordinator for the “*Social Software in Higher Education*” Forum (2006)

College

- Member, Professional Development Schools (PDS) Advisory Board (2020 - present).
- Program writer and curriculum designer:
 - M. Ed in Curriculum & Learning: STEAM
 - Graduate Certificate Program in STEAM
 - M. Ed in Educational Technology (on-going)
 - Graduate Certificate program in K-16 Online Learning
- Member, Professional Services Specialist Search Committee, Professional Development Schools(Fall, 2020)
- Founder and Chair (2010-2015), Co-Chair (2015 – Present), WP Annual Educational TechnologyConference
- Co-Chair, COE Graduate Program Advisory Council (September 2018 - Present).
- CAEP Preparation:
 - Designed the advanced programs completer survey and CAEP Ready course-outlines (Spring2018)
 - Conducted sessions pertaining to reliability at the College of Education Summer Retreats:
 - 2019 Retreat: Interrater reliability
 - 2018 Retreat: Reliability

- NJPST CAEP-Ready Assessment Team (Summer 2017): Working Group: Advanced programs Responsible for designing:
 - (1) WP COE advanced program competencies and indicators that are operational and aligned with the advanced CAEP standards
 - (2) Inquiry, leadership, and dispositions assessments
 - (3) Unit rubrics that encompass the advanced program competencies and indicators.
- COE DAP Group Interviewer (September 1, 2017 - Present).
- Co-Chair, William Paterson University Site, NJ Makers Day (March 9, 2018; March 14, 2017).
- Member, Collaborative Curriculum Design Team (CCDT) (February 2016 - May 2017).
- Chair, COE Assessment Committee (2006 – 2011, 2013 – Fall, 2015)
- Coordinator & Developer, NCATE Electronic Exhibits Room (Summer 2010 - Spring 2012)
- NCATE/Assessment Technology Advisory (Spring 09 – Spring 2012)
- Chair, COE Technology Committee (Spring, 2007 – Spring, 2010), Member (Fall, 2010 - Fall 2012)
- NCATE Conceptual Framework Committee (2007 – 2010)
- COE Portfolio Committee (2007 – 2009)

Department

- Chair, Retention, Tenure, and Promotion Committee (Fall, 2018 - Present).
- Member, Curriculum Committee (September 1, 2019 – Spring 2020).
- Faculty Search Committee (Spring 2010; Spring 11- Chair; Fall 11- Chair).

Professional Service

- Co-Chair, STEM Innovation SIG, Society for Information Technology & Teacher Education (SITE) (2021 – Present).
- Reviewer for the chapter for the book titled “*The Black Experience and Navigating Higher Education Through a Virtual World*” (Spring, 2021)
- Columnist, *The KAUPA Letter*, The Korean-American University Professors Association (KAUPA), Fall 2020 – Present.
- Judge, Newark Board of Education, NJ: “Girls Who Code” Computer Science Showcase (December 12, 2019)
- Grant Proposal Reviewer:
 - STEM + Computing Partnerships (STEM+C) program, National Science Foundation (NSF) Summer (2017)
 - Minority Science and Engineering Improvement Program (MSEPIP), Department of Education (2015)
- Book Talk (*Tablets in K-12 education: Integrated experiences and implications*), Teachers College, Columbia University (November 13, 2014).
<https://pk.tc.columbia.edu/item/Book-Talk:-Tablets-In-K-12-Education:-Integrated-Experiences-And-Implications-With-Heejung-An-David-Fuentes-And-Dominic-Mentor-125834>

- Reviewer, NJ Computer Science Teachers Association Conference (2020 - Present)
- Review Board, The Contemporary Issues in Technology and Teacher Education (CITE) Journal: General Section (September 2013 - Present).
- Reviewer, Society for Information Technology & Teacher Education (SITE) (September 2009 –2018, 2020 - Present).
- Editorial Advisory Board for the book of *Common Core Mathematics Standards and Implementing Digital Technologies* (2012-2013).
- 2014 International Conference of the Learning Sciences (ICLS)
- 2011 - 2013: MERLOT Journal of Online Learning and Teaching
- Reviewer, AERA – SIGs (Advanced Technologies for Learning, Technology, Instruction, Cognition & Learning, Technology as an Agent of Change in Teaching and Learning, Instructional Technology) (2002–2009).
- Reviewer, E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education (2006 – 2009).
- Co-Editor, *The NERA Researcher-Newsletter*, The Northeastern Educational Research Association (2006-2008).
- Communications Officer: AERA SIG-Instructional Technology (2005- 2006).

Community Service

- Served on the Advisory Board for the *Christ the Teacher School* (K-8), Fort Lee, NJ (Fall, 2015 – Spring, 2018)
- Volunteered as a newsletter translator (English into Korean), so that important messages could reach all attending families at the *Christ the Teacher School* (Fort Lee, NJ, 2017).
- Developed a web page for the Korean Language Learning Tools project (with Dr. Keumsil Kim-Yoon) that resided on the Department of Languages and Cultures' Website (Summer, 2008).
- Web developer and designer for the First Nursery School, NJ (Summer, 2008 – Fall, 2008).
- Web developer for the Korean Family Service Center, affiliated with the Asian Women's Christian Association (Summer, 2007).

(k) Professional Membership

- American Association of Colleges for Teacher Education (AACTE)
- Association for the Advancement of Computing in Education (AACE)
- American Educational Research Association (AERA)
- Computer Science Teachers Association of New Jersey (CSTA-NJ)
- International Society for Technology in Education (ISTE)

- National Art Education Association (NAEA)
- National Association for Professional Development Schools (NAPDS)
- National Science Teachers Association (NSTA)

(i) Technical Skills

- Quantitative Data Analysis Software (SPSS, EXCEL, HLM, MPLUS)
- HTML, JavaScript, C, C++, Scratch, Python, and Java Programming
- Adobe Packages and Video Editing Software (Final Cut Pro, Premiere)
- Geographic Information Systems (ArcView GIS), Google Earth

(j) Languages

Korean (native) and English

