

**Heejung An, Ed.D.**

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ORCID: <https://orcid.org/0000-0002-5783-2129>Google Scholar: <https://scholar.google.com/citations?user=h8ZOhiKAAAAJ&hl=en>**(a) Educational Background**

|  |  |      |
|--|--|------|
| Teachers College, Columbia University: | Instructional Technology and Media Program<br>Department of Mathematics, Science, and Technology,<br>Doctor of Education (Ed.D.)<br>NY, USA  | 2005 |
| New York University:                   | Educational Communication and Technology,<br>School of Education, Master of Arts (M.A.)<br>NY, USA   | 1996 |
| Ewha Womans University:                | Biology, College of Natural Sciences<br>with the Science Education Certification Program<br>Bachelor of Science (B.S.)<br>Seoul, South Korea | 1993 |
|  | Middle School Teacher Certificate for Biology<br>The Ministry of Education, South Korea  | 1993 |

**(b) Additional Training**

- The Meta-Analysis Training Institute 2022 Cohort, supported by NSF, June 27 - July 1, 2022  
hosted by Georgia State University
- Research Training Institute on Cluster-Randomized Trials: Institute of Education Sciences (IES), July 20-30, 2015  
hosted by Northwestern University

**(c) Professional Experience**

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|------------------------------|---|---------------------------|
| Full Professor:              | College of Education, William Paterson University                                     | 2015–Present              |
| External Evaluator           | Smithsonian Institution:<br>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<br>College of Education, William Paterson University   | 2012- Present             |
| Co-Director:                 | M. Ed in Curriculum and Learning<br>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                 |
| Graduate Research Assistant: | Kumon Evaluation Project, Teachers College, Columbia University                       | 2001-2002                 |
| Digital Curriculum Designer: | Teachers College, Columbia University:<br>Distance Learning Project                   | 1999-2000                 |
| Research Associate:          | Korea Telecom, Research & Development, South Korea                                    | 1996-1998                 |
| Lab Analyst:                 | Dong-A Pharmaceutical Co. LTD. Enzyme Division<br>South Korea                         | 1993-1995                 |

**(d) Publications****Books:**

- An, H. & Fuentes, D. (Eds.) (2023). *Digital learning in high-needs schools: A critical approach to technology access and equity in PreK-12*. Routledge.
- An, H. (Ed.) (2017). *Handbook of research on efficacy and implementation of study abroad programs for P-12 teachers*. IGI Global.
- An, H., Alon, S., & Fuentes, D. (Eds.) (2014). *Tablets in K-12 education: Integrated experiences and implications*. IGI Global.

**Peer-Reviewed Journal Articles:**

- An, H., Seplocha, H., & Sung, W. (under review). Using a generative artificial intelligence chatbot to foster school-home communication with linguistically diverse families.
- Sung, W., An, H., & Thomas, C.L. (under review). PICRAT analysis of technology-integration activities in U.S. K-12 public schools.
- Sung, W., An, H., & Thomas, C.L. (forthcoming). What predicts K-12 teachers' technology integration in practice?: The relationship between teachers' beliefs and school support in U. S. public schools. *The Journal of Online Learning Research*.
- Fattal, L. & An, H. (2023). Citizen scientists and artists: Integrating arts and technology to teach the effects of climate change on bird migration. *The STEAM Journal*, 5(1), Article 15. <https://scholarship.claremont.edu/steam/vol5/iss1/15/>
- An, H., Mongillo, G., Sung, W., & Fuentes, D. (2022). The lived experiences of teachers, administrators, and parents in U.S. high-needs K-12 schools: Factors affecting online learning during the COVID-19 pandemic. *The Journal of Online Learning Research*, 8(2), 203-234. <https://www.learntechlib.org/primary/p/220404/>
- An, H., Sung, W., & Yoon, S. (2022). Implementation of Learning by Design in a synchronized online environment for teaching educational robotics to inservice teachers. *Educational Technology Research & Development (ETR&D)*. <https://doi.org/10.1007/s11423-022-10134-8> (SSCI)
- An, H., Sung, W., & Yoon, S. (2022). Hands-on, minds-on, hearts-on, social-on: A collaborative maker project integrating arts in a synchronous online environment for teachers. *TechTrends*, 66(4), 590–606. <https://doi.org/10.1007/s11528-022-00740-x> (Scopus)
- An, H., Adanu, S., 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://doi.org/10.61669/001c.28155>
- Fattal, L., & An, H. (2019). STEAM: Choreographing the phases of the Moon, *Journal of Dance Education*, 19(4), 178-182. <https://doi.org/10.1080/15290824.2019.1664745> (Scopus)
- 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. (**Scopus**)
- 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.
- 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. (**Scopus**)
- An, H., & Shin, H. (2010). The impact of urban district field experiences on four elementary preservice teacher's learning regarding technology integration. *Journal of Technology Integration in the Classroom*, 2(3), 101-107.
- 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. <http://doi.org/10.1016/j.compedu.2009.04.015> (Top 25 hottest articles in *Computers & Education*, 2009) (**SSCI**)
- 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](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. (**SSCI**)

### **Book Chapters:**

- Fuentes, D. & An, H. (2023). Understanding the sociocultural and sociopolitical contexts of U.S. high-needs public schools before, during, and after the COVID-19 pandemic. In H. An & D. Fuentes (Eds.), *Digital learning in high-needs schools: A critical approach to technology access and equity in PreK-12*. Routledge.
- An, H., & Sung, W. (2023). Strategies to help for administrators, teachers, and parents to achieve equitable digital learning in U.S. high-needs school communities. In H. An & D. Fuentes (Eds.), *Digital*

*learning in high-needs schools: A critical approach to technology access and equity in PreK-12.*  
Routledge.

- An, H., Samaras, T., Lanni, M., & Rajab, N. (2023). Designing a Culturally Responsive Multilingual Arts-Integration Program: Read-Aloud and Book-Inspired Art-Making Videos, In H. An & D. Fuentes (Eds.), *Digital learning in high-needs schools: A critical approach to technology access and equity in PreK-12.* Routledge.
- 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*, 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.* 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.* 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.* 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.* 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.* 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). 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). IGI Global.

#### **Professional Magazine Articles:**

- An, H., & Sung, W. (forthcoming, 2024). The Thinkering, Making, Sharing, and Reflecting (TMSR) model: an instructional design model for online collaborative project-based learning. *Educause*.
- 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.

#### **Invited Book Review:**

- An, H. (2023). Book Review: [STEAM Meets Story: Using Adolescent Fiction and Film to Spark Deeper Learning](#). *Teachers College Record*.

#### **Evaluation Report:**

- An, H. (September 16, 2021). Arts integration and cultural competency professional support for New Jersey educators, *Smithsonian Center for Learning and Digital Access*.  
(This was an evaluation study conducted with the Smithsonian Institution, William Paterson University of New Jersey, Rutgers University, and the Paterson, NJ School District. This project received federal support from the Asian Pacific American Initiatives Pool, administered by the Smithsonian Asian Pacific American Center).

## (e) Presentations

### Refereed Conference Presentations:

- An, H. (2023). Fostering STEAM and art integration education in high needs K-8 urban schools through a partnership with a regional university. *The 2023 Conference of the Society for Information Technology and Teacher Education (SITE)*, New Orleans, LA, March 13-17, 2023.
- An, H., Mongillo, G., Sung, W., & Fuentes, D. (2022). Facilitating and impeding online learning in high needs schools. *The 2022 Conference of the Society for Information Technology and Teacher Education (SITE)*, San Diego, CA, April 11-15, 2022.
- An, H., & Sung, W. (2022). Playing in a virtual orchestra: a collaborative online maker project integrating arts for inservice teachers. *The 2022 Conference of the Society for Information Technology and Teacher Education (SITE)*, San Diego, CA, April 11-15, 2022.
- Thomas, A., An, H., & Knezek, G. (2022). Models of STEM and STEAM integration in teacher education. *The 2022 Conference of the Society for Information Technology and Teacher Education (SITE)* [Panel], San Diego, CA, April 11-15, 2022.
- An, H., & Sung, W. (2021). Project-based learning: Incorporating the arts and technology for teaching physical science to teachers in online environments. *The 2021 Society for Information Technology and Teacher Education International Conference (SITE) Interactive*.
- An, H. & Sung, W. (2021). Design of an online robotics course using the Learning by Design approach. In E. Langran & L. Archambault (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 568-576). Online, United States: Association for the Advancement of Computing in Education (AACE). Retrieved from <https://www.learntechlib.org/primary/p/219186/>
- 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 integrate arts 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. *The Northeastern Educational Research Association (NERA) conference*, October 20, 2017.
- Hah, Y., & An, H. (2017). Supporting the Development of Elementary Students' Creative Writing for Coding 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 handheld apps in elementary mathematics classrooms, *The 2016 Society for Information Technology and Teacher Education International Conference (SITE)*, March 21-25, 2016, Savannah, Georgia.
- An, H., & Hong, C. (2015). Lessons learned from a Fulbright-Hays program to South Korea with teacher 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 school classroom, *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 International Conference on Ubiquitous Learning*. November 14-15, 2013. Madrid, Spain.
- Alon, S., & An, H. (2013). Appropriate usage of iPads in K-12 mathematics classrooms. *The Association of Mathematics Teachers of New Jersey*. October 24, 2013.
- An, H., & Alon, S. (2013). iPad implementation models in K-12 school environments: an exploratory case 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 outcomes of 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 student population 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.
- 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: effective representations for non-programmers. *The World Conference on Educational Multimedia and Hypermedia (Ed-Media)*. June 2003, Honolulu, Hawaii.

**Invited Presentations and Talks:**

- An, H. (2023). Potential uses of AI in K-12 education: Strategies and examples. *Center for Teaching Excellence* [Panel], *William Paterson University*, May 17, 2023.
- An, H. (2022). Incorporating the AAPI Curriculum into K-12 Classrooms: Past Trends and Future Directions. *NJ Korean American School Boards Luncheon*, April 26, 2022.
- An, H. (2022). Teaching and learning with technology: Shared experience from educators and professionals. *The Korean American University Professors Association (KAUPA)* [Panel], April 16, 2022.
- An, H. (2020). Research on COVID-19: Multi- and interdisciplinary collaborations, hosted by the *Korean-American University Professors Association (KAUPA)*, October 22, 2020 [Panel]
- Berg, C., & An, H. (2021). Supporting online assessment needs through surveys, *What Works Conference*, William Paterson University, December 13, 2021.
- An, H., & Mongillo, 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* [Panel]. Montclair State University, August 15-17, 2021.
- 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.

**Non-Refereed Conference Presentations, and Professional Learning Workshops:**

- An, H. (2023). Supporting teachers' assessment designs with artificial intelligence tools. *The 14<sup>th</sup> Annual Educational Technology Conference*, November 17, 2023.
- An, H. (2022). Artificial intelligence and educational assessments. *The 13<sup>th</sup> Annual Educational Technology Conference*, November 18, 2022.
- An, H., & Lanni, M. (2021). A multilingual culturally responsive video-based arts integration and digital storytelling tool to support bilingual classrooms, *Joint Online Conference: The 40th Annual WP Bilingual/ ESL Conference and the 12th Annual WP Educational Technology Conference*, December 3, 2021.
- An, H. (2021). Online and blended teaching, *Professional Development Workshop to the Career and Technical Education (CTE) Grant Group*. William Paterson University, October 15, 2021.
- 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, H. (2020). Research on COVID-19: Multi- and Interdisciplinary Collaborations, hosted by the *Korean-American University Professors Association (KAUPA)*, October 22, 2020 [Panel]
- An, H. (2020). Teaching tips and technology tools for assisting with learning in a virtual environment for WPUNJ alumni educators and parents [Panel], 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., & Hong, C. E. (2015, May). Lessons Learned from the Fulbright-Hays Program to South Korea with Teacher Candidates and Teachers. Poster presented at the Annual Conference Committee of NAFSA: Association of International Educators, Boston, MA
- 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, 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 Program*, 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 and Designed at the College of Education, William Paterson University of New Jersey (Fall, 2005 - present):

- (G) LEAD 8600: Dissertation: Scholarship in Practice (Online)
- (G) EDLP 6030: Educational Research: Qualitative and Quantitative Designs (Online)
- (G) LEAD 7902: Leader Learner Community (Online)
- (G) ELCL 6230: Teaching Earth and Space, and Life Sciences with the STEAM approach (Blended and Online)
- (G) ELCL 6450: Programming, Robotics, and Engineering in STEAM (Blended and Online)
- (G) ELCL 6270: Teaching Physical Science with the STEAM Approach (Online)
- (G) ELCL 6290: Research in Education I (In-person, Blended, and Online)
- (G) ELCL 6300: Research in Education II (In-person, Blended, and Online)
- (G) ELCL 6060: Emerging Technologies for Teaching Mathematics (Blended)
- (G) ELCL 5990: Dynamic Web Application Development (In-person)
- (G) ELCL 6050: Educational Technology Foundations (In-person)
- (G) ELCL 6110:: Designing and Evaluating Technology-Supported Learning (Blended)
- (G) ELCL 6120: Assessing Educational Achievement with Technology (Blended)
- (G) MAT 5160: : Integrating Technology into the Curriculum (In-person)
- (UG) CIED 2130: Introduction to Educational Technology and Assessment in P-12 Classrooms (Blended)
- (UG) CIEE 3260: Science Methods/Assessment for Teaching K-8 (In-person)
- (UG) CIEE 2130: Teaching in a Global, Technological World (Online) (UG) Adaptive and Assistive Technologies in Early Childhood Education

##### Courses Taught at Grand Canyon University of Phoenix (2004 - 2005):

(M. Ed in Curriculum & Instruction - Instructional Technology specialization, College of Education)

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

- (G) Educational Applications of Technology (online)

***Courses Taught at Stony Brook University (2003 - 2005)***

*(Advanced Graduate Certificate Program in Educational Technology, School of Professional Development)*

- (G) Modern Communications: Technology Systems (online)
- (G) Instructional Design of Educational Technology (newly designed, online)

***Program and Curriculum Development***

- M. Ed. in Educational Technology (on-going)
- Graduate Certificate Program in K-16 Online Learning, Fall 2021
- Graduate Certificate Program in STEAM, Spring, 2021
- M. Ed in Curriculum & Learning: STEM/STEAM Education

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

- 2023: 9 students
- 2021-2022: 21 students
- 2020-2021: 14 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) Number of Doctoral Students Mentored (Summer 2022- Present)**

- 2023–2024: 6 students

**(i) Grants, Awards, and Fellowships**

**External Grants:**

- Research Grants on Education: Small (\$50,000, under review). Applying self-determination theory to elucidate the online professional learning landscape for teachers in the post-pandemic era.  
Spencer Foundation, Chicago, IL.  
- Role: Principal Investigator (PI), Co-PIs: Samuel Fancera and So Yoon Yoon
- Project Director, Inclusive Arts Integration (IAI) grant program, funded by the Geraldine R. Dodge Foundation(\$75,000), September 2022 - August 2023  
- Website: <https://inclusiveartsintegration.weebly.com/>  
- Learning Arts at Home: <https://www.learningartsathome.com/>
- 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/>  
- Learning Arts at Home: <https://www.learningartsathome.com/>

- Project Director, Arts Integration / STEAM grant program, funded by the Geraldine R. Dodge Foundation(\$100,000), September 2021 - August 2022
- 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.
- 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/>

#### **Internal Grants:**

- The Professional Development and Learning Landscape for Teachers and Administrators: Factors to Consider for the Post Pandemic Era, Faculty Research and Grant Incentive Program, William Paterson University  
Heejung An (PI), Samuel Fancera (Co-PI), and So Yoon Yoon (Co-PI) (\$4,000) (Spring, 2023)
- Technology Integration Mini-Grant, William Paterson University (\$1,000) (Spring, 2006)

#### **Awards:**

- 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  
Title: *Exploring international multicultural field experiences in educational technology*, published in *Multicultural Education & Technology Journal*
- 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*
- International Scholarship, Teachers College, Columbia University (2003).
- Academic Excellence Scholarship, Ewha Womans University, South Korea (1990).

#### **Not Funded:**

- NSF Grant (\$2,234,869 - Not funded): DRK-12: Teaching Trend: Type: Design and Development, 2017  
Title: Physical Science Education with C-STEAM in Urban Elementary School Classrooms
- NSF Grant (\$2,552,353 - Not funded): DRK-12: Teaching Trend: Type: Design and Development, 2016. Title: Gamifying the Elementary Physical Science Curriculum in Urban STEAM Classrooms

## (j) 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](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).

### Book Talk:

- *Digital learning in high-needs schools: A critical approach to technology access and equity in PreK-12*  
Palestinian American Community Center (September 16, 2023)  
<https://www.facebook.com/photo/?fbid=638559605045335&set=pcb.638559621712000>
- *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>

## (k) Service

### University:

- Co-Chair, Senate Assessment Council (Fall 2022 – present).
- Member, Strategic Plan Working Group- Adult Learners (Spring 2022)
- Member, Instructional Designer Search Committee (Summer 2021- Fall 2021).
- Department Representative: Participated in scholarship colloquium and reception and pre-doctoral fellows 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 - December 2017).
- 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:**

- Co-Organizer, COE Research (Fall, 2022)
- Department Representative, COE Community Relations Council (Fall 2022- present).
- Member, Search Committee for the Director of Accreditation and Education Innovation (May– June, 2022).
- Lead, Working Groups for the Continuous Improvement Assessments for the Advanced Programs (March – May, 2022)
- Member, Professional Development Schools (PDS) Advisory Board (2020 - present).
- Member, Professional Services Specialist Search Committee, Professional Development Schools (Fall, 2020)
- Founder and Chair (2010-2015), Co-Chair (2015 – Present), WPU Annual Educational Technology Conference.
- 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:
    - o 2019 Retreat: Interrater reliability
    - o 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 – 2023).
- Columnist, *The KAUPA Letter*, The Korean American University Professors Association (KAUPA) (Fall 2020 – Spring, 2022).
- Judge, Newark Board of Education, NJ: “Girls Who Code” Computer Science Showcase (December 12, 2019).
- Co-Editor, *The NERA Researcher-Newsletter*, The Northeastern Educational Research Association (2006-2008).
- Communications Officer: AERA SIG-Instructional Technology (2005- 2006).

**Reviewers for Journals, Conferences, and Grant Proposals:**

- Reviewer, *The Journal of Online Learning Research (JOLR)* (Fall, 2023- Present)
- Reviewer, *Teaching and Teacher Education* (Fall, 2022):  
1 manuscript: October, 2022
- Reviewer, *International Review of Research in Open and Distributed Learning (IRRODL)* (Spring 2022-Present)
- Reviewer, *Educational Research for Policy and Practice* (Spring 2022 – Present)  
1 manuscript (2022)
- Reviewer, *The Contemporary Issues in Technology and Teacher Education (CITE) Journal:General Section* (September 2013 - Present)
- Reviewer for the chapter for the book titled “*The Black Experience and Navigating Higher Education Through a Virtual World*” (Spring, 2021)
- Reviewer, NJ Computer Science Teachers Association Conference (2020 - Present)
- Reviewer, *The 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)
- Reviewer, International Conference of the Learning Sciences (ICLS), 2014
- Reviewer, MERLOT Journal of Online Learning and Teaching, 2011-2013
- 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)
- 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)

**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. Keum-sil 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)

**(l) 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)
- National Association for Professional Development Schools (NAPDS)
- National Science Teachers Association (NSTA)

**(m) Technical Skills**

- Quantitative Data Analysis Software (SPSS, EXCEL, HLM, MPLUS)
- HTML, JavaScript, C, C#, C++, Scratch, Python, and Java Programming
- Adobe Packages and Video Editing Software (Final Cut Pro, Premiere)

**(n) Languages**

Korean (native) and English