Won Jung Kim

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Santa Clara University
School of Education & Counseling Psychology
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Education

August, 2021	Ph.D. Michigan State University Curriculum, Instruction, and Teacher Education
	Dissertation: Making Visible and Amplifying Youth-initiated Moments for Rightful Presence in Informal STEM Learning Spaces
February, 2013	M. Ed. Korea National University of Education Biology Education
February, 2004	B.A., Korea National University of Education Biology Education Minor in General Science Education

Publications

Peer Reviewed Journal Articles

- **Kim, W. J.** (2022). AI-Integrated Science Teaching Through Facilitating Epistemic Discourse in the Classroom, *Asia-Pacific Science Education*, 8(1), 9-42. https://doi.org/10.1163/23641177-bja10041
- Calabrese Barton, A., Greenberg, D., **Kim, W. J.**, Brien, S., Roby, R., Balzer, M., ... & Archer, L. (2021). Disruptive moments as opportunities towards justice-oriented pedagogical practice in Informal Science Learning. *Science Education*, 105(6), 1229-1251. https://doi.org/10.1002/sce.21682
- **Kim, W.** (2021). Exploratory content analysis: Whiteness in Korean middle school science textbooks. *Multicultural Education Review*, *13*(2), 163-178. https://doi.org/10.1080/2005615X.2021.1919962
- Calabrese Barton, A., **Kim, W.,** & Tan, E. (2020). Co-designing for rightful presence in informal science learning environments. *Asia-Pacific Science Education*, 6(2), 285-318. https://doi.org/10.1163/23641177-BJA10015
- **Kim, W.** (2019). Teacher as change agent for consequential learning: One Korean teacher's autoethnography on the dance-with-science project, *Forum for International Research in Education*, *5*(2), 79-96. https://doi.org/10.32865/fire201952156
- **Kim, W.,** Byeon, J., & Kwon, Y. (2013). Analysis of task commitment types of science learning in high school students' biology classification. *Journal of Korea Association of Science Education*, 33(4), 830-846.

- **Kim, W.,** Byeon, J., & Kwon, Y. (2013). Development of inventory to classify task commitment type in science learning and its application to classify students' types. *Journal of Korea Association of Science Education*, 33(3), 679-693.
- **Kim, W.,** Byeon, J., Lee, I., & Kwon, Y. (2012). Gaze differences between expert and novice teachers in science classes. *Journal of Korea Association of Science Education*, 32(9), 1443-1451.
- Park, H., Lee, I., Byeon, J., **Kim, W.,** & Kwon, Y. (2012). The analysis of verbal interaction on the process of elementary students' hypothesis generation learning. *Journal of Korea Association of Science Education*, 32(8), 1269-1280.
- Kwon, Y., **Kim, W.,** Lee, H., Byeon, J., & Lee, I. (2011). Analysis of biology teachers' system thinking on ecosystem. *Journal of Korea Biology Education*, *39*(4), 529-543.

Journal Articles Under Review

- **Kim, W.,** Calabrese Barton, A., Brien, S., & Archer, L. Youth-initiated moments of seeking justice: Making visible youth imaginaries for STEM learning. *Cognition and Instruction*.
- **Kim, W.,** Calabrese Barton, A., Archer, L. Making Space for Youth Rightful Presence in Informal STEM Learning. *Journal of Research in Science Teaching*.
- **Kim, W.** Critical Perspectives of School Science: A Science Teacher's Autoethnographic Examination of Science Classroom Discourse and Practices. *Journal of Science Teacher Education*.
- **Kim, W.** 'At first they felt barely relevant': Three Korean Science Teachers' Reflective Sensemaking of Justice-oriented Science Teaching. *International Journal of Science Education*
- Greenberg, D., Calabrese Barton, A., Brien, S., **Kim, W.,** & Archer, L. Designing and Leading Justice-Centered Informal STEM Education: A Relational and Ethical Teaching Framework. *Science Education*

Book Chapter

- **Kim, W. J.,** & Alonzo, A. C. (2021). Undergraduates' Grasp of Evidence for Evaluating Scientific Knowledge Claims Associated with Socio-scientific Issues. In Engaging with Contemporary Challenges through Science Education Research (pp. 149-160). Springer, Cham. https://doi.org/10.1007/978-3-030-74490-8_12
- Calabrese Barton, A., Balzer, M., **Kim, W. J.,** McPherson, N., Brien, S., Greenberg, D., & Archer, L. (2021). Spatial justice theory: Working toward justice: Reclaiming our science center. In Theorizing Equity in the Museum (pp. 1-18). Routledge. https://doi.org/10.4324/9780367823191

Research Reports

- **Kim, W.** (2014). Busan science education initiative project report: Inquiry faculty and creativity enhancement via STEAM based free inquiry activities. Education Office of Busan Metropolitan City.
- **Kim, W.,** Yoon, I., Park, K., Seo, B., & Shin, H. (2014). *STEAM education research report:* future competence reinforcement by STEAM-based teaching program development and application tailored to free semester. Korea Foundation for the Advancement of Science and Creativity.
- Yoon, S., Lee, N., Choi, Y., **Kim, W.,** Kwon, S., Heo, T., & Ahn, Y. (2014). *Busan education policy research report: Evaluation model analysis and development for the free semester system.* Busan Education Research and Information Institute.
- **Kim, W.** (2014). *Joy of STEAM inquiry: Science initiative E+STEAM camp report.* Busan Science Education.
- **Kim, W.**, & Kwon, Y. (2011). Golgi's and Cajal's scientific inquiry processes on the Neuron. *Brain & Learning*, 1(2), 12-27.

Peer-reviewed Presentations

- Kim, W., &, Stoehr, K. (2023, April) Research-Practice Partnership with Beginning STEM Teachers and Their Students. Climate & Environmental Justice Conference, Santa Clara, Santa Clara University, US
- **Kim, W,** & Archuleta, L. (2023, April) Co-creating the Discourse of Environmental Consciousness toward Justice in Science Classrooms: A Reflective Case Study of a Teacher Educator and a Teacher as Learners. Annual Meeting of National Association for Research in Science Teaching, Chicago, Il, US
- **Kim, W.** (2023, April) 'At first they felt barely relevant': Three Korean Science Teachers' Reflective Sensemaking of Justice-oriented Science Teaching. Annual Meeting of the American Educational Research Association, Accepted not Presented
- **Kim, W.** (2023, April) Science Teachers' Understanding of Students' Rightful Presence in Science Classrooms and Supportive Pedagogical Practices, Annual Meeting of the American Educational Research Association, Accepted not Presented
- **Kim, W.** (2022, June) What does 'Computer Science Education for All' look like in a Korean middle school: an ethnographic case study of an informatics teacher's local contentious practice. International Conference of the Learning Sciences.
- **Kim, W** & Calabrese Barton, A. (2022, April). *Making space in support of youths' rightful presence in informal STEM learning space*. Annual Meeting of the American Educational Research Association, San Diego, CA, US

- **Kim, W.** (2022, January). AI-integrated science instruction: vitalizing epistemic discourse in classroom. Annual Conference of Korean Association of Science Education, Virtual
- **Kim, W.** (2022, January). A case study of four Korean science teachers' learning to integrate Artificial Intelligence into science classes. Annual Conference of Korean Association of Science Education, Virtual
- **Kim, W.** (2021, April). Enacting epistemic agency in transnational space: YouTube comments on face masks during COVID-19 pandemic. Annual Meeting of the American Educational Research Association.
- **Kim, W.** (2021, April). What the pandemic revealed: Multiple consciousness of becoming a Korean graduate in the US. AERA Annual Meeting.
- Calabrese Barton, A., Balzer, M., **Kim, W.**, McPherson, N., Brien, S., Greenberg, D., & Archer, L. (2021, April). *Working towards social spatial justice: Reclaiming our science center*. AERA Annual Meeting.
- Calabrese Barton, A., **Kim, W.**, & Tan, E. (2021, April). *Co-designing for rightful presence in informal science learning environments*. AERA Annual Meeting.
- **Kim, W.** (2021, January) Three Korean Science Teachers' Collaborative Autoethnographic Analysis of Classroom Teaching in the Framework of Equity. Annual Conference of Korean Association of Science Education, Virtual
- **Kim, W.** (2021, January). *Exploratory content review. Whiteness in Korean middle school science textbooks.* Annual meeting of Korean Association for Multicultural Education. Virtual due to COVID-19, Seoul, South Korea.
- **Kim, W.** (2020, July). *Critical autoethnography: A Korean science teacher's consciousness analysis*. Paper presentation at the International Conference of the Learning Sciences. Virtual due to COVID-19, Nashville, TN.
- Calabrese Barton, A., **Kim, W.**, Balzer, M., & Brien, S. (2020, July). *Reclaiming the science center: Working towards social spatial justice*. Paper presentation at the International Conference of the Learning Sciences. Virtual due to COVID-19, Nashville, TN.
- **Kim, W.** & Louis, L. (2020, April). Whiteness in nonwhite: *Multiple consciousness analysis of autoethnographic narratives from Korean classrooms*. AERA Annual Meeting San Francisco, CA (Conference Canceled due to COVID-19).
- Calabrese Barton, A., **Kim, W**., Brien, S. C., Balzar, M., Godec, S., Archer, L. & Dawson, E. (2020, April). (*Re*)Claiming space: Disrupting and reimagining equity in informal science learning. AERA Annual Meeting San Francisco, CA (Conference Canceled due to COVID-19).
- **Kim, W.**, & Alonzo, A. (2020, March). *Undergraduates' grounded critique of knowledge claims in socioscientific decision making*. Conference of National Association for Research in Science Teaching Conference, Portland, OR (Conference Canceled due to COVID-19).

- **Kim, W.** (2019, October). *Critical autoethnographic narrative analysis of multiple consciousness in Korean classrooms*. Presented in Midwest Conference of Asian Affairs, East Lansing, MI.
- **Kim, W.**, Calabrese Barton, A., Blazer, M., & Archer, L. (2019, October). *Equitable and consequential pedagogies for STEM agentic lives: Practices for disrupting and restructuring authority from youth-initiated moments*. Presented at the annual meeting of Inclusive Science Community Symposium, Kingston, RI.
- **Kim, W.**, & Brien, S. (2019, September). *Equitable teaching practices from Youth-initiated moments of sharing authority*. Presented at the annual meeting of Learning Sciences Graduate Student Conference, Evanston, Illinois, United States.
- **Kim, W.** (2019, September). *Undergraduates' epistemic critique of socioscientific claims*. Presented at the annual meeting of Learning Sciences Graduate Student Conference, Evanston, IL.
- **Kim, W.**, Calabrese Barton, A., Brien, S., & Roby, ReAnna. (2019, August). *High leverage practices in support of equitable and transformative pathways towards STEM-agentic lives*. Presented at the biannual meeting of European Science Education Research Association, Bologna, Italy.
- **Kim, W.**, Alonzo, W. (2019, August). *Undergraduates' epistemic caution for evaluating socioscientific knowledge claims*. Presented at the biannual meeting of European Science Education Research Association, Bologna, Italy.
- **Kim, W.**, Calabrese Barton, A., & Brien, S. (2019, May). *Practices for equitable and transformative pathways towards STEM-agentic lives for youth from underrepresented communities*. Presented at CREATE for STEM mini-conference, East Lansing, MI.
- **Kim, W.**, & Calabrese Barton, A. (2019, April). *Teacher the change agent for consequential learning: One Korean teacher's autoethnography on the dance-with-science project.* Presented at the annual meeting of Comparative and International Education Studies, San Francisco, CA.
- **Kim, W.**, Calabrese Barton, A., Balzer, M., Brien, S., & Archer, L. (2019, April). *High-leverage practices in informal science education toward equitable and transformative pathways in STEM*. Presented at the annual meeting of AERA, Toronto, ON, Canada.
- Balzer, M., **Kim, W.**, Greenberg, D., Calabrese-Barton, A., & Archer, L. (2018, September). Partnering for "Equitable STEM pathways" for youth from underrepresented communities: Findings from a US/ UK partnership. Presented at the annual meeting of Association of Science and Technology Center, Harford, United States.
- Alonzo, A. C., & **Kim, W.** (2017, August). *Exploring practices of personal and civic engagement with science*. Presented at the biannual meeting of European Science Education Research Association, Dublin, Ireland.
- Kim, W., & Kwon, Y. (2013, January). Analysis of task commitment types of science

- *learning in high school students' biology classification.* Presented at the annual meeting of Korea Association of Biology Education Conference.
- **Kim, W.**, & Kwon, Y. (2012, November). Where does a teacher look at: The comparative analysis of experienced and beginner teachers' eye movement in the science class. Presented in East Asian Association for Science Education Conference.
- **Kim, W.**, & Kwon, Y. (2012, February). Where does a teacher look at: Comparative analysis of teachers' eye movement in the science classrooms. Presented at the annual meeting of American Association for the Advancement of Science, Vancouver, BC, Canada.
- **Kim, W.**, & Kwon, Y. (2011, August). *Analysis of brain activation network in question generation regarding biological phenomenon: An fMRI study*. Presented at the annual meeting of Federation of European Neuroscience Societies, Barcelona, Spain.

Awards, Grants & Scholarships/Fellowships

2023	Emerging Scholar Award, International Society of Learning Sciences.
2023	Science Communication Identities Project Fellow, Metcalf Institute and
	Knight Center for Environmental Journalism.
2022	Outstanding Dissertation Research Award, National Association of
	Research in Science Teaching
2022	University Teaching Grant, Santa Clara University
2022	Environmental Justice Initiative Research Grant, Santa Clara University
2020	Dissertation Completion Fellowship, MSU
2020	Anderson-Schwille Endowed Fellowship in International Education. MSU
2020	Teacher Education Endowed Fellowship, MSU
2020	Korean Association for Multicultural Education Presidential Research
	Travel Award
2019	Research + Practice Fellow, Research + Practice Collaboratory and Metcalf
	Institute
2019	Delia Koo student award, Asian Studies Center, MSU
2019	Summer Research Fellowship, College of Education, MSU
2019	Research Practicum/ Dissertation Fellowship, College of Education, MSU
2017	Summer Research Development Fellowship, College of Education, MSU
2015	National Classroom Teaching Competition (1st), in secondary school
	science, Ministry of Education, Korea.
2015	Teacher of Busan Youth Inquiry Fair: Can We Classify Plants by Stomata
	Traits?, Ministry of Education, Korea.
2014	Busan Education Policy Research Award, Korea Department of Education
2011-2012	Graduate Scholarship, Korea National University of Education
2010	Teacher of Busan Youth Inquiry Fair: Does Cypress Oil Have Antibiotic
	Effects?, Ministry of Education, Korea.

Research Assistantship

2017-2021 Science Learning + Partnerships: Partnering for Equitable

STEM Pathways

Graduate Research Assistant

PI: Dr. Angela Calabrese Barton, University of Michigan

2016-2019 Articulation and Assessment of Scientific-Style Critical

Thinking

Graduate Research Assistant

PI: Dr. Alicia Alonzo, Michigan State University

Teaching and related experiences

Teaching (Masters' Courses)

2021-present Instructor, Secondary Science Methods I (EDUC 288A), Santa

Clara University

Instructor, Secondary Science Methods II (EDUC 288B), Santa

Clara University

Instructor, Elementary Science Methods (EDUC 264), Santa Clara

University

Instructor, Creating Positive Classroom Cultures (EDUC 258/283),

Santa Clara University

2021-present Field Supervisor for Secondary Science Teacher Candidate, Santa

Clara University

Teaching (Undergraduate Courses)

2021 **Instructor,** TE 409 Science Teaching Practice for the Secondary

Science Minor, Michigan State University

2020 **Co-Instructor,** TE 407 Learning to Teach Science in Diverse

Contexts, Michigan State University

2018-2019 Shadower, TE 802/804 Reflection and Inquiry in Science Teaching

Practice, Michigan State University

2018 **Shadower,** TE 403 Teaching Science to Diverse Students,

Michigan State University

Teaching (informal secondary STEM education)

2020 **Program Director/Instructor**, Teenovators, Youth STEM-based

Action Council in Boys and Girls Club Makerspace, Lansing, MI

2019 Camp Designer/Director, Boys and Girls Club Makerspace, Lansing,

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2018-2019	Assistant Educator, Boys and Girls Club Makerspace, Lansing, MI.
2017-2019	Assistant Educator, Impression 5 Science Center, Lansing, MI.
2013-2014	Program Director , Busan Science Education Initiative, Busan, Korea.

Teaching (public school secondary education)

2015-2016	Science Teacher, Garak Middle School, Busan, Korea.
2009-2015	Science Teacher, Yongsu Middle School, Busan, Korea.
2004-2009	Science Teacher, Dukpo Middle School, Busan, Korea.

Teacher Certification

2008	Teacher's	Certificate (\mathbf{T}
2000	i caciici s	Cu unicate (,

Secondary Biology, Ministry of Education, Korea

2004 Teacher's Certificate (II)

Secondary Biology and General Science, Ministry of Education, Korea

Other Professional Experiences

Journal Paper Reviewer

2022-present Journal of Research in Science Teaching

Science Education

Asia Pacific Science Education

Committee

2022 Social Media Committee, National Association for Research in

Science Teaching

Conference Discussion Chair

2020 Korean Association for Multicultural Education

Conference Proposal Review

2023	International Conference of Learning Sciences 2023 conference
2020	proposal reviewer
2022	American Educational Research Association 2023 conference proposal
	reviewer
	National Association for Research in Science Teaching 2023
	conference proposal reviewer
2021	National Association for Research in Science Teaching 2022
	conference proposal reviewer
2020	National Association for Research in Science Teaching 2021

conference proposal reviewer

National Association for Research in Science Teaching 2020

conference proposal reviewer

Conference Assistant

2018 Ambitious Science Teaching Conference assistant (June). Michigan

State University

Speaker and Panel

2022, July	Visiting Speaker Session: Rightful Presence of Teachers and Students
	in Korean Elementary Classrooms: Korea National University of
	Education, Kwangju (Course Title: Diversity and Multicultural
	Education).
2022, April	Mentoring Session for Graduate Students. Korean Scholars for
	American Educational Research Association
2021, March	Publishing & Fellowship Advice for First-Year CITE Students.
	Michigan State University

Practitioner Research

2015	Mobile application development for virtual science experiments
2015	STEAM workbook development for the Free Semester
2015	Assessment item development for gifted student selection
2014	Assessment system analysis for the Free Semester
2009-2016	Biology activity development for STEAM classrooms

Teacher Mentoring

2016	Teacher training lecturer for classroom argumentation-based inquiry
2015-2016	Mentor for beginning science teachers
2011-2012	Consultant for Education Broadcast System children science program

Student Group Mentoring

2016	Busan Youth Inquiry Fair: Follow Your Sense
2015	Busan Youth STEAM Camp with STEAM major university students
2015	Busan Youth Inquiry Fair: Environment-Friendly Bio-Plastic
	Products
2015	Busan Youth Inquiry Fair: Can We Classify Plants by Stomata
	Traits?
2011-2012	Afterschool Program for Design and Invention Inspired by Nature
2010	Youth Group for Environmental Inquiry: Save the Swamp, Save the
	River

2010 Busan Youth Inquiry Fair: Does Cypress Oil Have Antibiotic

Effects?

2009 Busan Invention Fair: See What You Hear

Membership in Professional Societies

International Society of the Learning Sciences
American Education Research Association
European Science Education Research Association
National Association for Research in Science Teaching
Korea Association for Science Education
Korean Society of Biology Education