

韩一晶 **DR. RAE JING HAN** (they/them/tā)

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EDUCATION

- June 2022 **Ph.D., Learning Sciences and Human Development**
University of Washington, College of Education (Seattle, WA)
Dissertation: Designing Justice-Centered and Intersectional Environmental and Climate Learning Across a Professional Network
Dissertation advisor: Dr. Philip Bell
- June 2020 **M.Ed., Teaching, Learning, and Curriculum (Culturally Sustaining Education)**
University of Washington, College of Education (Seattle, WA)
Culminating project: Responding to Cultural and Linguistic Heterogeneity: Norwegian Early Childhood Educators' and Teacher Educators' Discourses and Practices
Program advisor: Dr. Django Paris
- June 2020 **Certificate in Education, Equity, and Society**
University of Washington, College of Education (Seattle, WA)
Program advisor: Dr. Jondou Chen
- May 2017 **B.S., Psychology, with distinction**
Yale University (New Haven, CT)
Cumulative GPA: 3.94, magna cum laude Major GPA: 4.0
Thesis: Children's Reasoning About Functional Diversity and Complexity in the Biological Domain
Thesis advisor: Dr. Frank Keil

TEACHING AND RESEARCH INTERESTS

- Justice-centered environmental and climate learning
- Intersectional environmentalism and cultural-ecological relationships
- Environmental and climate emotionality
- Socio-ecological caring and ethical decision-making
- Youth leadership and advocacy
- Multigenerational learning and solidarity
- Arts-based learning and storytelling
- Culturally sustaining, relational, and community-centered pedagogies
- Asian Critical Race Theory, racial identity development, and cross-racial solidarities
- Universal Design for Learning and inclusive design of learning spaces
- Anti-racist, anti-colonial, anti-imperial, and abolitionist practice

TEACHING, MENTORING, & LEARNING DESIGN

Undergraduate Course Development and Facilitation

University of Washington College of Education, March 2019 - June 2021

- Asian Critical Race Theory: Locating Asian Experiences in the US (~5-10 students)
- Community Engagement (~20-50 students)
- Adult Learning and Development (46 students)
- Introduction to Early Childhood and Family Studies (90 students)
- Nature-Centered Play and Learning in Early Childhood Education (24 students)

Undergraduate Teaching Support

University of Washington College of Education, September 2018 - December 2019

- Seeking Educational Equity and Diversity
- Teaching from the Inside Out: Being a Resilient Educator

Graduate and Faculty Course Development and Facilitation

University of Washington College of Education, March - June 2020

- Education, Equity, and Society Colloquium (~30 participants)

In-Service Professional Learning and Curriculum Design

- Education Specialist; EarthGen (December 2020 - August 2023)
 - Bilingual Environmental Education: Strengthened environmental education through K-12 curriculum development and educator professional learning.
 - Collaboratively redesigned three environmental curricular units and created one completely new unit about air quality, focusing on culturally sustaining pedagogies, environmental justice, and creative practices.
 - ClimEd: Implemented professional learning to transform K-12 climate change and climate justice education across Washington State.
 - Designed and facilitated professional learning communities to strengthen environmental and climate justice education, especially centering arts, storytelling, and emotionality in justice-centered learning.
 - Developed curricular and professional learning resources to uplift representation of Black, Indigenous, and people of the global majority in community-centered environmental career pathways.
 - Built a new Youth Fellowship program and mentored three high school Fellows to expand their power as environmental and climate advocates.
- Curriculum Designer; Yale Center for Emotional Intelligence (April 2015 - July 2017)
 - Co-designed lessons for a wellbeing curriculum to supplement RULER emotional intelligence program. Supported implementation and evaluation at partner school.
 - Co-developed Family Connections program to guide K-5 students to practice RULER anchor tools with their families at home.

Youth Learning and Engagement

- Camp Educator; Common Ground Urban Farm & Environmental Education Center (summer 2015, 2017)

- Camp Educator; New Haven Department of Parks, Recreation, and Trees (summer 2016)
- Teacher and Assistant Program Director; MIT Educational Studies Program - Junction (summer 2014)
- Teacher, Program Director, and Co-President; Splash at Yale (2013-2017)

RESEARCH

Mar 2020 –
Jun 2021

Graduate Research Assistant

Institute for Science and Math Education (UW), Collaboratory

PIs: Dr. Philip Bell, Dr. Deb Morrison

- Co-led facilitation of ClimeTime, a statewide professional network focused on climate change and climate justice education, including creating communication and evaluation materials and co-designing convenings for network members to learn and collaborate.
- Co-designed and facilitated interviews with network members about their relationships within the community of practice, climate-related learning processes, justice stances and practices, and efforts to support climate education for young learners.
- Collaborated with network members to generate in-depth case studies of their justice-centered climate learning projects.

Sep 2019 –
Mar 2020

Graduate Research Assistant

Institute for Science and Math Education (UW), TechTales

PIs: Dr. Philip Bell, Dr. Carrie Tzou

- Conducted qualitative data analysis to explore multigenerational families' engagement in culturally sustaining STEAM storytelling workshops. Investigated themes such as cultural resurgence, consequential learning, collaboration, multiple knowledge systems, youth expertise, and intergenerational knowledge-sharing.
- Managed and mentored undergraduate work-study students in transcription and translation of video data in Spanish and Amharic.

Mar 2018 –
Sep 2018

Graduate Research Assistant

Cultivate Learning (UW), Nurturing Early Learning

PI: Dr. Gail Joseph

- Created research and practitioner briefs about key topics in nature-centered early childhood education, including health and developmental benefits, risk management, and adapting practices to local contexts.
- Supported the coordination of the Nurturing Early Learning professional learning institute on incorporating nature experiences into early childhood programs.
- Created an institute proceedings report to reach a broader audience of practitioners.

Sep 2017 –
Mar 2018

Graduate Research Assistant

Cultivate Learning (UW), Partnership for Pre-K Improvement
PI: Dr. Gail Joseph

- Supported development of case studies about early childhood education infrastructure and program quality in three states.
- Contributed to a comprehensive literature review, focusing on issues of equity, access, & quality.

SELECTED PUBLICATIONS (* = authors listed in alphabetical order)

Peer Reviewed Publications

Velasco, K., **Han, R. J.**, Kha, D., Lee, T., Noel, S., Ungco, C., & Mendoza Chui, K. (2023). The AsianCrit Collective: Creating, sustaining, and moving toward liberatory futures. *Professing Education*.

Mendoza Chui, K., Ungco, C., Kha, D., Velasco, K., **Han, R. J.**, Lee, T., & Noel, S. (2023). Asian Critical Race Theory and Culturally Sustaining Pedagogies: Frameworks for implementing Asian ethnic studies in PK-12 education. *Asian American Policy Review*, 33.

Upadhyay, P., & **Han, R. J.** (2021). Facilitating emancipatory and justice-centered environmental and climate learning. *Connected Science Learning*, 3(5). Retrieved from <https://www.nsta.org/connected-science-learning/connected-science-learning-september-october-2021/facilitating>

Practitioner Resources

* Braaten, M., Foster, D., Foster, J., **Han, R. J.**, Scipio, D., & Suárez, E. (2022). *How do race and racism connect with science learning in early childhood and elementary classrooms?* STEM Teaching Tools Initiative, Institute for Science + Math Education. Seattle, WA: University of Washington. Retrieved from <http://stemteachingtools.org/brief/86>

* Braaten, M., Foster, D., Foster, J., **Han, R. J.**, Scipio, D., & Suárez, E. (2021). *How can we confront and dismantle systemic racism through science learning?* STEM Teaching Tools Initiative, Institute for Science + Math Education. Seattle, WA: University of Washington. Retrieved from <http://stemteachingtools.org/brief/79>

* Brown, L., Guevara, C., **Han, R. J.**, Rhinehart, A., & Scipio, D. (2021). *How can environmental educators practice intersectional environmentalism?* STEM Teaching Tools Initiative, Institute for Science + Math Education. Seattle, WA: University of Washington. Retrieved from <https://stemteachingtools.org/brief/70>

Han, R. J., & Bell, P. (2019). *Using science investigations to develop caring practices for social-ecological systems*. STEM Teaching Tools Initiative, Institute for Science + Math Education. Seattle, WA: University of Washington. Retrieved from <http://stemteachingtools.org/brief/61>

Han, R. J., Biddle, S., Wilson, L., & Skolrud, C. (2018). *Nurturing early learning: The latest science on young children's learning and the outdoors (Institute proceedings report)*. Seattle, WA: Cultivate Learning.

Han, R. J., & Berglind, S. (2018). *Nurturing early learning: Resources to support young children's learning in the outdoors*. Seattle, WA: Cultivate Learning.

SELECTED PRESENTATIONS

Peer Reviewed Conference Presentations

Han, R. J., & Upadhyay, P. (2023, March 22-25). *Facilitating emancipatory and justice-centered environmental and climate learning with elementary students* [Conference presentation]. National Science Teaching Association National Conference on Science Education, Atlanta, GA.

Han, R. J., Coker, A., Lonsdale, M., Meyer, S., Upadhyay, P., Virga Carpenter, A., & Wilson, A. (2023, March 22-25). *A climate justice toolkit for K-12 educators: Building community and justice connections in the science classroom* [Conference presentation]. National Science Teaching Association National Conference on Science Education, Atlanta, GA.

Han, R. J., Hadnot, S., & Hoshiko, D. (2022, October 7). *Environmental and sustainability education as a tool for liberation* [Conference presentation]. Progressive Education Network National Conference (Transformative Education: Disruption, Innovation, and Regeneration in Our Learning Communities), Seattle, WA.

Han, R. J., Kha, D., Lee, T., Mendoza Chui, K., Ungco, C., & Velasco, K. (2022, October 6). *The AsianCrit Collective: Creating, sustaining, and moving towards liberatory futures* [Conference symposium]. 12th International Conference on Education and Justice, virtual event.

Han, R. J., Althausen, L., & Hadnot, S. (2021, November 11). *E3 Washington's Community of Practice: Learning equitable design together* [Conference presentation]. E3 Washington Conference (Wisdom from the Field, Stories from the Heart: Equitably Supporting Communities with Environmental and Sustainability Education), virtual event.

Han, R. J., Germinaro, K., Kha, D., Lee, T., & Mendoza Chui, K. (2021, November 3). *Decolonizing learning through self-reflexivity and aligning justice* [Conference symposium]. Decolonizing Education Conference, virtual event.

Han, R. J., & Upadhyay, P. (2021, October 28-30). *Facilitating emancipatory and justice-centered environmental and climate learning with elementary students* [Conference presentation]. National Science Teaching Association Area Conference on Science Education, Portland, OR.

- Han, R. J.,** Brown, L., Guevara, C., & Scipio, D. (2021, April 23). *Practicing intersectional environmentalism* [Conference presentation]. Teton Science Schools Place-Based Symposium, virtual event.
- Han, R. J.** [chair] (2021, April 9). *Designing learning for just and resilient climate action* [Conference symposium]. NARST 94th Annual International Conference (Science Education, a Public Good for the Good of the Public), virtual event.
- Han, R. J.,** Upadhyay, P., Meyer, S., & Morrison, D. (2021, April 9). *Justice-centered climate learning within a networked community of practice* [Conference symposium]. NARST 94th Annual International Conference (Science Education, a Public Good for the Good of the Public), virtual event.
- Han, R. J.,** & Guevara, C. (2020, November 12). *Science learning to support caring ecological relationships and practices* [Conference presentation]. E3 Washington Conference (Resiliency in Challenging Times: Equitably Supporting Our Communities with Environmental and Sustainability Education), virtual event.
- Han, R. J.,** Guevara, C., & Rhinehart, A. (2020, October 13-16). *Communicating climate science: Tools to bridge research and practice* [Conference presentation]. North American Association for Environmental Education 49th Annual Conference, virtual event.
- Han, R. J.,** Guevara, C., & Bell, P. (2020, October 9-10). *Teaching science to support caring ecological relationships and practices* [Conference presentation]. Washington Science Teachers Association Conference, virtual event.
- Han, R. J.,** Guevara, C., Bell, P., Morrison, D., & Rhinehart, A. (2020, October 9-10). *Engaging in climate science education through connections to everyday life, equity, and justice* [Conference presentation]. Washington Science Teachers Association Conference, virtual event.
- Han, R. J.,** & Morrison, D. (2020, October 9-10). *Designing climate science education in elementary learning communities* [Conference presentation]. Washington Science Teachers Association Conference, virtual event.
- Han, R. J.,** & Bell, P. (2020, April 19). *Designing for the development of multispecies relationships in science learning contexts* [Structured poster session]. American Educational Research Association Annual Meeting, San Francisco, CA. (conference canceled)
- Han, R. J.** (2019, October 5). *Building culturally sustaining pedagogies in environmental education for equity and justice* [Conference roundtable discussion]. E3 Washington Conference (Integrating Environment, Equity, and Economy in Education), Ellensburg, WA.

Invited Presentations

- Han, R. J., & Guevara, C.** (2023, April 26). *Supporting youth learning and wellbeing with collective, socio-ecological grieving practices* [Invited workshop]. IslandWood Graduate Program in Education for Environment and Community, Bainbridge Island, WA.
- Han, R. J., Mendoza Chui, K., & Ungco, C.** (2022, November 21). *The AsianCrit Community Project: Cultivating culturally sustaining spaces* [Invited guest lecture]. Community Based Practice and Research (Community Organizing Models: Art and Activism Along Solidarities), Seattle, WA.
- Han, R. J., Mendoza Chui, K., & Noel, S.** (2022, November 18). *Asian Critical Race Theory and young children* [Invited professional development workshop]. Hilltop Children's Center: Educator Discussion Series, virtual event.
- Han, R. J., Chase Chen, J., Mendoza Chui, K., Noel, S., & Velasco, K.** (2021, November 19). *Oriental ivory: Asian Critical Theory in higher education* [Invited faculty professional development workshop]. University of Washington College of Education, virtual event.
- Han, R. J., & Upadhyay, P.** (2021, November 18). *Facilitating emancipatory and justice-centered environmental and climate learning with elementary students* [Invited workshop]. ClimeTime Design Institute, virtual event.
- Han, R. J., Lee, T., & Mendoza Chui, K.** (2021, November 1). *Using an asset-based lens and moving beyond savior mentality* [Invited guest lecture]. Community Engagement and Leadership Education Center, virtual event.
- Han, R. J., Lee, T., & Mendoza Chui, K.** (2021, April 30). *Responding to anti-Asian violence and supporting Asian students and colleagues in the COE community* [Invited faculty professional development workshop]. University of Washington Learning Sciences and Human Development, virtual event.
- Han, R. J., & Mendoza Chui, K.** (2021, March 23 and April 6). *Anti-Asian violence in a time of COVID: Conversations about community grief and accountability* [Invited workshop]. TRIO Upward Bound, virtual event.
- Han, R. J.** (2021, March 2). *Anti-bias, equity, and justice in outdoor preschool teaching and learning* [Invited professional development workshop]. Greater Gig Harbor Foundation Curious by Nature School, virtual event.
- Han, R. J., & Germinaro, K.** (2020, February 19). *Justice-centered environmental education* [Invited workshop]. Jumpstart, University of Washington, Seattle, WA.

SERVICE**Professional**

May 2021 – May 2023	Board Member <i>E3 Washington Board of Directors</i>
Oct 2019 – May 2023	Equity Committee Member <i>E3 Washington Board of Directors</i>
Jun 2016 – Dec 2021	Secretary (2019-2020); Board Member <i>Splash at Yale Nonprofit Board</i>
2020	Elementary Curricula Review Panelist <i>Climate Literacy and Energy Awareness Network</i>
2019, 2020	Peer Reviewer <i>North American Association for Environmental Education Conference</i>
2018	Peer Reviewer <i>National Research Conference on Early Childhood</i>

University

Sep 2017 – Jun 2021	Diversity Chair (Jan 2019 - June 2021); Student Representative <i>Associated Students of the College of Education, University of Washington</i>
2020	Graduate Teaching Workgroup Member <i>University of Washington College of Education</i>
2020	Graduation Student Speaker Selection Committee Member <i>University of Washington College of Education</i>
2019	Senior Presentations Panelist for Early Childhood and Family Studies <i>University of Washington College of Education</i>
Sep 2017– Jun 2019	Diversity Ambassador <i>Office of Student Diversity and Inclusion, University of Washington College of Education</i>
Dec 2017 – May 2018	Student EduTalks Co-Coordinator <i>University of Washington College of Education</i>

AWARDS AND HONORS

2016	President's Public Service Fellowship (Yale University)
2015	Courture Fellowship (Yale University)

PROFESSIONAL MEMBERSHIPS

AsianCrit Collective
E3 Washington
National Science Teaching Association
Psi Chi Honor Society

REFERENCES

Dr. Jondou Chase Chen

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