HYEOK HWEON "H. H." KANG

Curriculum vitae

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EMPLOYMENT

2021–pres.	Assistant Professor of East Asian Languages and Cultures, Washington University in St. Louis
2020-21	D. Kim Foundation Postdoctoral Fellow, Department of the History of Science and Technology, Johns Hopkins University
EDUCATION	

2020	Ph.D., History and East Asian Languages, Harvard University
2013	B.A., History and Music, summa cum laude, Phi Beta Kappa, Emory University

PUBLICATIONS

Book Manuscript

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in progress	Artisanal Heart: Craf	t Hnonneering	and the Culture of	t Knowledge in H	arly Modern Korea
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Peer-Reviewed Articles

accepted	"The Measures of Early Modern Technology: Europe, East Asia, and the Interpretive Flexibility of Smoothbore Ballistics," <i>Journal of World History</i> (accepted, pending minor revisions)
in press	"Kingpins at Court: Contraband Diplomacy between Korea, Japan, and Tsushima, 1607–1671," <i>The Journal of Asian Studies</i> (in press)
in press	"Korean Chronicles under a Macroscope: Towards a Digital Infrastructure in Premodern Korean Studies," with Michelle Suh, <i>Korean Studies</i> (in press)
2023	"How Network Analysis Uncovers International Networks of Smuggling History: Criminals in Nagasaki, Japan circa 1667," <i>Journal of Cultural Analytics</i> 8:1 (February 2023): 1–20
2023	"Reverse Engineering as History and Method: The Portuguese Espingarda in Choson Korea," History and Technology 38:2-3 (2023): 144-66
2022	"Cooking Niter, Prototyping Nature: Saltpeter and Artisanal Experiment in Korea, 1592–1635," <i>Isis: A Journal of the History of Science Society</i> 113:1 (March 2022): 1–21
2014	"A Korean Military Revolution? Parallel Military Innovations in East Asia and Europe," with Tonio Andrade and Kirsten Cooper, <i>Journal of World History</i> 25:1 (March 2014): 51–84

2013 "Big Heads and Buddhist Demons: The Korean Musketry Revolution and the Northern Expeditions of 1654 and 1658," *Journal of Chinese Military History* 2:2 (2013): 127–89

Peer-Reviewed Chapters

2022	"Difference in an Age of Parity: Technology and Global Military History," in <i>The Military Revolution and Revolutions in Military Affairs</i> , ed. Mark C. Fissel (Berlin: De Gruyter, 2022), 29–64
2021	"Nature of <i>Narye</i> : Sound, Spectacle, and the Politics of Performance in Fifteenth-Century Korea, 1392–1592," in <i>Routledge Handbook of Asian Music: Cultural Intersections</i> , ed. Tong Soon Lee (London: Routledge, 2021), 150–73

Review Essays and Book Reviews

2022	Review of <i>Technical Knowledge in Early Modern Japan</i> , eds. Erich Pauer and Ruselle Meade. <i>Japan Review</i> 37 (2022): 190–2
2016	"In Pursuit of Truth and Justice: Legal History of Chosŏn Korea and the State of the Field," <i>Seoul Journal of Korean Studies</i> 29:1 (June 2016): 219–27

Other Scholarly Publications

2022–pres.	"Silloker," database and search engine for Korean historical chronicles, June 1, 2022–present, <u>silloker.com</u> . Co-designed with Michelle Suh
2022	"The Korean Snap Matchlock: A Global Microhistory," Bulletin of the American Society of Arms Collectors 124 (2022): 30–41
2015	"Climate Change's Fatal Synergy," Sense & Sustainability, May 11, 2015
2014	"The Little Ice Age: Heterogeneity of Impact and Japan's Success Story?", Sense & Sustainability, December 5, 2014
2014	"The Little Ice Age: History of Climate-Induced Crisis in Europe and East Asia," <i>Sense & Sustainability</i> , October 15, 2014

Works in Progress

under review	"Tactics Before Technics: Korean Perception of Japanese Wartime Technology, 1592–1598," under review
in progress	"A Comparative History of Military Technology in Early Modern Europe and East Asia," for <i>A Cultural History of Technology in the Age of Encounters (1450–1650)</i> , ed. Raffaele Pisano (London: Bloomsbury)
in progress	"Global Cooling, Floor Heating Stones, and the Rhetoric of Efficient Design in Eighteenth-Century Korea," for a special issue to be considered for <i>History of</i> <i>Science</i> , eds. Jung Lee and Eugenia Lean
in progress	"Making for the Home: Poisons, Taboo, and Women's Knowledge in the Late Chosŏn," conference paper undergoing revision into an article manuscript

AWARDS, GRANTS AND FELLOWSHIPS

External

2022-23	ACLS Fellowship, American Council of Learned Societies
2020-22	Mellon Fellowship of Scholars in the Humanities, Stanford University (2-3 years; declined to accept the D. Kim Foundation Postdoctoral Fellowship)
2020-21	Postdoctoral Fellowship, D. Kim Foundation for the History of Science and Technology in East Asia
2021	Turriano ICOHTEC Book Prize, Juanelo Turriano Foundation and the International Committee for the History of Technology
	Selected from "original book-length works in any of the official ICOHTEC languages (English, French, German, Russian or Spanish) in the history of technology"
2021	ICAS Book Prize (2019–2020), Best Dissertation in the Humanities in English, International Convention of Asia Scholars
2021	Finalist, WHA Dissertation Prize, World History Association
2021	Northeast Asia Council Korean Studies Grant, Association for Asian Studies
2019-20	Mellon/ACLS Dissertation Completion Fellowship, ACLS
2019–20	Dissertation Fellowship, D. Kim Foundation for the History of Science and Technology in East Asia (declined to accept the Mellon/ACLS DCF)
2017-19	Korea Foundation Fellowship for Graduate Studies, Korea Foundation
2018	Joan Cahalin Robinson Prize, Society for the History of Technology
2018	Russell F. Weigley Graduate Travel Grant, Society for Military History
2017	Bernadotte E. Schmitt Research Grant, American Historical Association
2012	World History Association / Phi Alpha Theta Student Paper Prize (undergraduate division)
2012	Gold Medal, Chinese Speech Competition, Confucius Institute (full ride to Nanjing University for a master's degree, declined)

Internal

Washington University in St. Louis

Seeding Projects for Enabling Excellence and Distinction (SPEED) in Research (2022–23); Roland Grimm Travel Award (2023); Summer Faculty Research Grant (2023); Internal Nominee for the National Endowment for the Humanities (NEH) Summer Stipend Competition (2023); Global Qing and Its Legacies Grant (2022)

Harvard University

Asia Center Winter Research Travel Grant (2017); Derek Bok Certificate of Distinction in Teaching (4 times) (2016–17); Nominee for Star Family Prize for Excellence in Advising (2016); Korea Institute Summer Research Grant (3 times) (2014–16); Sheldon Traveling Fellowship (declined to accept Korea Foundation Fellowship) (2016–17); Y.B. Min University Fellowship (2014–16); Fairbank Center for Chinese Studies Summer Travel Grant (2015); Reischauer Institute for Japanese Studies Summer Language Grant (2014); Institute for Quantitative Social Sciences Research Grant (2014); Nominee for Presidential Scholar (2013)

Emory University

Charles E. Shepard Scholar for Graduate Studies (2013); Burt and Betty Shear Award (one of two seniors selected from a graduating class of 1,400) (2013); Matthew A. Carter Citizen-Scholar Award (2013); George Cuttino Scholarship for Research Overseas (2012); Clio Prize for Best Junior/Senior Colloquium Paper (2012); Woodruff Library Undergraduate Research Award (2012); Fox Center for Humanistic Inquiry Fellowship (2011–13); Third Place in Original Music Composition, Arts Showcase (2011); William-Lemonds Grant (2011); Dewey-Hinton Scholarship (2011); Emory Scholars Summer Study Abroad Award (2011); Scholarly Inquiry and Research Summer Research Grant (3 times) (2010–12); Scholarly Inquiry and Research Conference Grant (2 times) (2010–11); Center for Creativity and Arts Grant (3 times) (2010–12); Best Presentation Award, Scholarly Inquiry and Research Symposium (Humanities and Arts Category) (2 times) (2010–12); Kemp Malone Scholar (full scholarship) (2009–13)

PRESENTATIONS

Invited Talks

2023	"Artisanal Heart: The Vernacular Engineers of Early Modern Korea," Korean Humanities Speaker Series, the Center for East Asian Studies, Stanford University
2022	"Reading Artisanal Knowledge from 16 th century Korea," Cornell Classical Chinese Colloquium, the Mario Einaudi Center for International Studies, Cornell University
2022	"Early Modern Science as Seen Through Late Chosŏn Military Workshops: Focusing on Niter Knowledge" (조선후기 군영공방으로 보는 근세 과학사: 염초 지식을 중심으로) (in Korean), Sungkyunkwan Seminars in Historical Studies, Sungkyunkwan University
2022	"The Artisanal Heart: Craft and Experimentalism in Early Modern Korea," Minnesota Colloquium for the History and Philosophy of Science, Technology, and Medicine, University of Minnesota
2022	"Artisan Squad: The Experimental Workshop in Early Modern Korea," Aftermath of the East Asian War of 1592–1598 Webinar Series, Autonomous University of Barcelona
2021	"Prototyping Niter: Experimentalism and Technological Practice in the Late Chosŏn Military Workshops" (조선후기 군영공방에서의 실험과 기술적 실천) (in Korean), Science in Historical Perspective, Seoul National University
2021	"The East Asian War: A Technological History," for undergraduate class on Korea History through Film, Harvard University
2021	"Reverse-Engineering the Gun: The Portuguese <i>Espingarda</i> in Choson Korea," American Society of Arms Collecting, Prescott
2021	"Boiling Saltpeter: Espionage, Experiment, and Vernacular Science" (염초

달이기: 염탐, 시험 그리고 조선후기의 버나큘러 과학) (in Korean), Chosŏn History of Science Seminar Series, Seoul National University

2015 "Technologies in Korean History: A Broad Sweep," training session for interns at the MIT International Science and Technology Initiatives (MISTI), Massachusetts Institute of Technology

At Conferences and Workshops

2023	"Military Technology as Literacy: Technical Knowledge in Korean Military Workshops," conference on Mastering of Materialities: Resources and Technology in Post-Imjin East Asia," Autonomous University of Barcelona
2023	"The Codification of Technical Knowledge in Korean Military Workshops, 1592–1635," the 16 th International Conference on the History of Science in East Asia, Frankfurt
2023	"Silloker: Towards a Digital Infrastructure for Korean Historical Chronicles," conference on Tools of the Trade: The Way Forward, Harvard University
2022	"Vernaculars of Making: Artisanal Literacy through Image and Script," History of Science Society annual meeting, Chicago
2022	"From Envoys to Army Shops: Saltpeter and the Infrastructure of Craft Knowledge in Late Chosŏn Korea," Association for Asian Studies annual meeting, Honolulu
2022	"Silloker: Towards a Digital Turn in Premodern Korean Studies," workshop on Digital Humanities and Korean Studies, University of Copenhagen
2022	"Making for the Home: Poisons, Taboo, and Women's Knowledge in 18th- Century Korea," Modern Language Association annual meeting, Washington
2022	"Cooking Niter, Prototyping Nature: Saltpeter and Artisanal Experiment in Korea, 1592–1635," working group on Craft, Technology, and Material Culture in Early Modern Asia, held online by the Consortium for History of Science, Technology, and Medicine (CHSTM)
2021	"My Humble Explanation of Things (Somun sasõl): A Source Reading," 4th New Frontiers in Premodern Korea Studies, held online by the Korea Institute, Harvard University
2021	"The Politics of Technology Choice: The Gun Debate in Chosŏn Korea," workshop on The Multifarious Reception of the Harquebus, held online by the Autonomous University of Barcelona
2021	"With an "Artisanal Heart"? How Korean Scholars Tinkered with Pneumatics and Natural Philosophy in the Early Nineteenth Century," History of Science Society annual meeting, New Orleans, held online due to COVID-19
2021	"Out of Thick Air: Western Pneumatics in Nineteenth Century Korea," the Inaugural Conference for the Korean Studies Research Network, Iowa, held online due to COVID-19
2021	"Collaborating Hands: Artisan, Scholar, and New Technological Knowledge in Sixteenth Century Korea," the 26 th International Congress of History of

	Science and Technology, Prague, held online due to COVID-19
2020	"Cooking Niter in Korea: Espionage, Experiment and Vernacular Science," working group on Early Modern Science, held online by the Consortium for History of Science, Technology, and Medicine (CHSTM)
2019	"A Wheellock Landmine: Artisan, Scholar and Technological Knowledge in Seventeenth Century Korea," Society for the History of Technology annual meeting, Milan, Italy
2019	"The Workshop: Knowledge, Technology and the Military in Chosŏn Korea," workshop hosted by the D. Kim Foundation, Seoul
2019	"Matériel Matters: Trade and Diplomacy across the Korea Strait," conference hosted by The World Consortium of Korean Studies, Leiden University
2018	"Divine Machine? Korea's Reception of the Gun," Society for History of Technology annual meeting, St. Louis
	Winner of the Joan Cahalin Robinson Prize for the best presented paper
2018	"Divergence in an Age of Parity: Musketry and Marksmanship in Western Europe and East Asia," Society for Military History annual meeting, Louisville
2018	"Accurizing the Gun: Tactics and Technologies in East Asia," Chinese Military History Society annual meeting, Louisville
2017	"Gunrunning Diplomacy: Military Trade across the Korea Strait," Association for Asian Studies annual meeting, Toronto
2015	"Performing Gunpowder: The Technology of Court Rituals in Chosŏn Korea," Harvard East Asia Society Graduate Student Conference, Harvard University
2013	"The Troubadour's Tournament: From Drilling Manuals to Narrative Songs in Late Chosŏn Korea," Association for Asian Studies annual meeting, San Diego
2013	"Performing Military Knowledge in Korean Armies: P'ansori and the Late Chŏson Military and Social Reforms," 42 nd International Council for Traditional Music, Shanghai
2011	"What's Driving Fusion <i>Haegum</i> ? New Accessibility and the Question of Authenticity," Society for Ethnomusicology Southeast and Caribbean Chapter (SEMSEC) meeting, Nashville
2011	"Managing Historicity and Accessibility: <i>Nanyin</i> of Quanzhou" Association for Chinese Music Research Meeting, Association for Asian Studies annual meeting, Philadelphia
Campus Talks	
2022	"Minimum Viable Product (MVP) for Digital Humanities," graduate seminar
	on East Asian Print Culture and Society: Women in Print, Washington

2021 "Crafting Niter, Imitating Nature: Saltpeter and Artisanal Experiment in Seventeenth Century Korea," History of Science, Medicine, and Technology Colloquia, Johns Hopkins University, held online due to COVID-19

University in St. Louis

2019	"Military Artisanship: A Way of Making and Knowing," working group on Korean Studies, Harvard University
2017	"Korea's Gunpowder Army: War, Technology, and Transformation," for undergraduate class on Traditional Korea, Harvard University
2017	"Digital Humanist as Historical Detective: Network Analysis of Arms Trafficking between Japan and Korea, 1677," series on Digital Humanities, hosted by the Harvard-Yenching Library
2015	"Closing of the Steppes? Russo-Qing Conflicts in World-Historical Perspective," working group on Central Eurasia, Harvard University

TEACHING

Washington University in St. Louis

Instructor	Guns, Tobacco, and Sweet Potato, A History of Material Culture (scheduled for Fall 2024)
Instructor	Imagined Pasts: Traditional Korea through Film (scheduled for Fall 2024)
Instructor	Nature, Technology, and Medicine in Korea (Spring 2022, Spring 2023)
	Founded the student-run journal <i>WashU Ventures in Korean Studies</i> whose first two volumes are available as paperback on Amazon
Instructor	Korean Civilization (Spring 2023)
Instructor	Kitchen, Studio, Factory: Making in East Asia (Fall 2021, Spring 2022)
	Featured in <i>The Ampersand</i> , "New course explores craft cultures in East Asia," June 15 2022

Harvard University

Assistant	Traditional Korea, by Sun Joo Kim (Spring 2017)
Assistant	Introduction to the Study of East Asia: Issues and Methods, by David Howell (Spring 2017)
Assistant	Korean History Through Film, by Sun Joo Kim (Fall 2016)
Assistant	Classical Chinese Ethical and Political Theory, by Michael Puett (Fall 2016)
Assistant	The Two Koreas, by Carter J. Eckert (Spring 2016)

PROFESSIONAL SERVICE

To the Discipline

Distinguished Speaker, Association for Asian Studies Northeast Asia Council (NEAC) Distinguished Speakers Bureau, 2024–27 [scheduled]

Best Article Prize Committee, Maurice Daumas Prize, International Committee for the History of Technology (ICOHTEC), 2022

Best Presentation Prize Committee, Joan Cahalin Robinson Prize, Society for the History of Technology, 2021

Environmental History Fellow, Sense & Sustainability (501C3 Non-profit), 2013-15

Reviewing and Consulting

Editorial Board (Consulting Editor), Journal of the History of Ideas, 2022-present

Consultant, "Globalization and Creation of Korean Historical Contents through Gamification," Economics, Humanities and Social Research Council, South Korea, 2022

Manuscript referee for journals, Technology & Culture, Isis: A Journal of the History of Science Society, and Asian Studies Review

Contributor, "About the Cover," Harvard Journal of Asiatic Studies 77.1 (June 2017), 2017

Events Organized or Coordinated

Co-organizer, with Sau-Yi Fong, "Military Crisis and Early Modern Entanglement," panel at the 16th International Conference on the History of Science in East Asia, Frankfurt, Germany, 2023

Co-organizer, with Eric M. Gurevitch, "Vernacular Sciences in Asia," panel at the History of Science Society annual meeting, Chicago. Sponsored by the Forum for the History of Science in Asia, 2022

Organizer, "Science and Artisanal Knowledge: Towards a Global History," panel at History of Science Society annual meeting, New Orleans, held online due to COVID-19, 2021

Coordinator, "1st Annual Joint Atlantic Seminar for the History of East Asian Science, Technology, and Medicine (JAS-EASTM)," conference hosted by Johns Hopkins University, held online due to COVID-19, 2021

Graduate Coordinator, "Making History: Technologies of Production in East Asia's Past," workshop at Harvard University, 2019

Organizer, "Assimilating the Gun: Military Technology in the Long Sixteenth Century," panel at the Society for the History of Technology annual meeting, St. Louis, 2018

Organizer, "The Frontiers of Global Military History: Military Technology and Inner and East Asian Warfare," panel at the Society for Military History annual meeting, Louisville, 2018

Organizer, "Smugglers, Castaways and Sailors: Informal Diplomacy in Early Modern East Asia," panel at the annual meeting of the Association for Asian Studies, Toronto, 2017

Graduate Coordinator, "Receptions, Transformations and Innovations: Transcultural Discourses in Korean Art," conference at Harvard University, 2016

University and Department Service

Co-convener, with Jianqing Chen, EALC Public Lecture & Brown Bag Series, Department of East Asian Languages and Cultures, Washington University in St. Louis, 2021–present

Member, Graduate Committee, Department of East Asian Languages and Cultures, Washington University in St. Louis, 2021–present

Member, "Science in the Public Square," project funded by the Incubator for Transdisciplinary Futures, Washington University in St. Louis, 2021–22

Co-founder, with Graeme Reynolds, Korean Studies Working Group, Harvard University,

2017 - 18

Resident Tutor, Lowell House, Harvard University, 2014–16

Nominated for the 2016 Star Family Prize for Excellence in Advising

Vice-Chair of Fellowships, Lowell House, Harvard University, 2014-16

Graduate Fellow (Cultural & Intellectual Fellow), Dudley House, Harvard University, 2013-15

STUDIES ABROAD

Jangseogak Archives, Academy of Korean Studies, Seoul, Korea Intensive Hanmun (Classical Chinese) Workshop, Summer 2016

National Taiwan University, Taipei, Taiwan International Chinese Language Program, Summer 2015

Princeton in Ishikawa, Ishikawa, Japan Advanced Japanese Language Program, Summer 2014

Kyujanggak Archives, Seoul National University, Seoul, Korea Intensive Hanmun (Classical Chinese) Workshop, Summer 2012, 13 Visiting Student Fellow, 2012

Quanzhou Normal University, Fujian, China Visiting Student Fellow, 2011

University of Oxford (Regent's Park College), Oxford, UK Program in Renaissance History, Summer 2011

RESEARCH LANGUAGES

Korean (native); Chinese, Japanese, Spanish (advanced reading, speaking, and writing) Literary Sinitic/Classical Chinese, Manchu (reading proficiency)

PROFESSIONAL MEMBERSHIPS

American Historical Association Association for Asian Studies History of Science Society Society for the History of Technology International Committee on History of Technology Phi Beta Kappa, honor society (2012 induction) Phi Alpha Theta, history honor society (2012 induction) Phi Eta Sigma, honor society (2009 induction)