

SUN KIM

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EDUCATION

- Harvard University Graduate School of Arts and Sciences** Cambridge, MA, USA
Ph.D. student, Population Health Sciences | Global Health and Population 2021–present
Relevant coursework: Health system analysis, Health Economics, Impact Evaluation, Human Rights and Social Justice
- Harvard T.H. Chan School of Public Health** Boston, MA, USA
S.M., Global Health and Population | Infectious Disease Epidemiology | GPA: 3.96/4.0 May 2021
Relevant coursework: Infectious disease modeling, Epidemiological & spatial methods, Econometric analysis, Priority setting
- Yonsei University** Seoul, South Korea
B.S., Biomedical Engineering | Bioengineering | CGPA: 3.93/4.3 February 2019
- The Hague University of Applied Sciences** Delft, the Netherlands
Exchange Student | Robotics and Vision Design September 2015 – July 2016

PROFESSIONAL EXPERIENCE

- World Bank Group** Washington DC, USA
Consultant | Health Nutrition and Population global practice division May 2022 – Present
- Conducting econometric analysis investigating Universal Health Coverage outcome drivers with a focus on Health Equity and Financial Protection – empirical analysis of WB micro data (HEFPI 2022) from 90 LMIC countries
- Harvard T.H. Chan School of Public Health** Boston, MA, USA
Graduate Research Assistant | Professors Marcia Castro and Nick Menzies August 2020 – Present
- Research topics include: spatiotemporal analysis to assess the pattern and duration of COVID-19 clusters across municipalities in Brazil, investigating trends in TB incidence and reactivation TB in the US-born aged 50 and over in collaboration with CDC, estimation of decline in life expectancy after COVID-19 in Brazil and in the US with Dr. Castro, and estimation of TB mortality in Brazil with Brazilian MOH with Drs. Menzies and Castro
- Center for Strategic & International Studies (CSIS)** Washington DC, USA
2023 Next Gen Young Leader Fellow | CSIS Korea Chair February 2023 – August 2023
- Identifying factors contributing to pandemic preparedness in Korea and the U.S. and exploring opportunities for bilateral cooperation to address challenges, drawing on South Korea's successful experience in COVID-19 containment
- National Assembly Futures Institute** Seoul, South Korea
Researcher March 2021 – November 2021
- Investigated employment, economic, and sociodemographic factors associated with changes in smoking and drinking behaviors during the COVID-19 pandemic in South Korea, using data from a nationally representative happiness survey
- Harvard Ministerial Leadership Program** Boston, MA, USA
Policy Research Fellow September 2020 – April 2021
- Worked with Ethiopian Ministry of Health to identify the impact of COVID-19 on Ethiopia's essential health services and establish priorities for resource allocation based on research evidence using DHIS2 data
- Harvard T.H. Chan School of Public Health, FMUSP | Harvard-Brazil Public Health Field Course** São Paulo, Brazil
Dengue Research Participant | Professor Marcia Castro January 2020
- Received Brazil Cities Research Grant (\$4,700) from DRCLAS for an independent research project, "What factors would influence people's acceptance of a dengue vaccine and attitudes toward vector control? A qualitative study in São Paulo, Brazil" after participating in a three-week public health field course with 15 Harvard students and 15 Brazilian students
- Harvard Global Institute | Social Technology for Eldercare in China** Cambridge, MA, USA | Shanghai, China
Research Fellow | Professor Arthur Kleinman October 2019 – October 2020
- Designed a new social technology platform, *Gem*, with a team of six students, to connect the elderly with family caregivers and enable them to provide companionship for socially isolated elderly through reminiscence-based teletherapy – the project won the first prize in 2020 Geneva Challenge (10,000 CHF) among 145 projects around the world
- JW LEE Center for Global Medicine, Seoul National University School of Medicine** Seoul, South Korea
Research Intern (Full-time) May 2019 – August 2019
- Conducted qualitative research on a capacity building project for pediatric cardiac surgery in Ethiopia and collected quantitative data and conducted qualitative interviews during radiology education program in Vietnam
- World Health Organization (WHO), Country office for Sri Lanka** Colombo, Sri Lanka

- Facilitated Food Security and Nutrition Projects – visited schools located in rural areas of Sri Lanka and held hands-on nutrition and health education programs as part of school health promotion program to alleviate the burden of malnutrition
- Assisted Mission of the UN Inter-Agency Task Force (UNIATF) on the Prevention and Control of NCDs and conducted DHS (Demographic and Health Survey) research on child malnutrition (stunting, wasting and underweight) and disease prevalence in Southeast Asia region

Reinier de Graaf Hospital

Student Research Intern (Full-time)

Delft, the Netherlands
February 2016 – July 2016

- Conducted an independent research project at the Department of Orthopedics developing a Dynamic Wrist Splint for patients with scapholunate instability
- Designed a 3D printed prototype, wrote a thesis, and gave presentations to researchers and physicians in the department

PUBLICATIONS

Kim, S., Castro, M.C. (2020). Spatiotemporal pattern of COVID-19 and government response in South Korea (as of May 31, 2020). *International Journal of Infectious Diseases*. 98, 328–333. <https://doi.org/10.1016/j.ijid.2020.07.004>

Castro, M.C., **Kim, S.,** Barberia, L., Ribeiro, A.F., Gurzenda, S., Ribeiro, K.B., Abbott, E., Blossom, J., Rache, B., & Singer, B.H. (2021). Spatiotemporal pattern of COVID-19 spread in Brazil. *Science*. <https://doi.org/10.1126/science.abh1558>

Castro, M. C., Gurzenda, S., Turra, C. M., **Kim, S.,** Andrasfay, T., & Goldman, N. (2021). Reduction in life expectancy in Brazil after COVID-19. *Nature Medicine*, 27(9), 1629–1635. <https://doi.org/10.1038/s41591-021-01437-z>

Kim, S., Cohen, T., Horsburgh, C. R., Jr, Miller, J. W., Hill, A. N., Marks, S. M., Li, R., Kammerer, J. S., Salomon, J. A., & Menzies, N. A. (2021). Trends, Mechanisms, and Racial/Ethnic Differences of Tuberculosis Incidence in the US-Born Population Aged 50 Years or Older in the United States. *Clinical Infectious Diseases*, ciab668. <https://doi.org/10.1093/cid/ciab668>

Lee, SY., **Kim, S.,** Kim, WH., Heo, J. (2022). Employment, Economic, and Sociodemographic Factors Associated with Changes in Smoking and Drinking Behaviors During the COVID-19 Pandemic in South Korea. *International Journal of Environmental Research and Public Health*, 19(5), 2802; <https://doi.org/10.3390/ijerph19052802>

Kim, SM., **Kim, S.,** Wang, S. X., Kanwar, R., Bryan, D. S., Bueno, R., & Marshall, M. B. (2023). Gender differences in Medicare payments to cardiothoracic surgeons in 2019. *European Journal of Cardio-Thoracic Surgery*, 63(3). <https://doi.org/10.1093/ejcts/ezac566>

Castro, Gurzenda, S., Turra, C. M., **Kim, S.,** Andrasfay, T., & Goldman, N. (2023). Research Note: COVID-19 Is Not an Independent Cause of Death. *Demography*, 60(2), 343–349. <https://doi.org/10.1215/00703370-10575276>

Bertozi, Stefano M., Fan, Victoria Y., **Kim, S.,** Pineda, Diego. (2024). *Disease Control Priorities 4th Edition, Volume 2, Pandemics*. Chapter 15. Pandemic Financing: Prevention, Preparedness, Response and Reconstruction. (In preparation)

Peer review contribution: *Health Systems & Reform, Social Science & Medicine, Scientific reports, BMC Public Health, BMC Geriatrics, The International Journal of Tuberculosis and Lung Disease, IJHPM, The Professional Geographer*

INVITED SEMINARS & CONFERENCE PRESENTATIONS

“Trends, Mechanisms, and Racial/Ethnic Differences of Tuberculosis Incidence in the US-Born Population Aged 50 Years or Older in the United States,” NEEMA annual meeting, Centers for Disease Control and Prevention, July 20, 2022

“Spatiotemporal pattern of COVID-19 and government response in South Korea,” Webinar Series on COVID-19 Impact Analysis, Center for Geographic Analysis, February 5, 2021

“Trends, Mechanisms, and Racial/Ethnic Differences of Tuberculosis Incidence in the US-Born Population Aged 50 Years or Older in the United States,” 52nd Union World Conference on Lung Health, October 19, 2021

“Use of GIS during the pandemic,” Guest lecture in GHP 534 course: Introduction to spatial methods for public health, Harvard TH Chan School of Public Health, April 7, 2021 & April 27, 2022 & April 5, 2023

TEACHING EXPERIENCE

ECON 2022: Health, Well-Being, and Justice
Teaching Fellow | Professors Sudhir Anand & Amartya Sen

Harvard College
Fall 2023

GENED 1079: Why Is There No Cure For Health?
Teaching Fellow | Professor David Cutler

Harvard College
Fall 2023

- Holding two weekly sections for 30 undergraduate students – topics included: modeling epidemics (COVID-19 & HIV), the economics of pharmaceuticals, and western health systems (Affordable Care Act)

GHP 200: Doing Health Reform Better

Harvard T.H. Chan School of Public Health

Teaching Fellow | Professor Michael Reich

Fall 2022, Fall 2023

- Held office hours, lead review sessions for a class of 40 graduate students – topics included: designing effective government health system interventions in five areas – financing, payment, organization, regulation, and behavior

GHP 202 & 203: Comparative Health Systems I & II

Harvard T.H. Chan School of Public Health

Teaching Fellow | Professor Winnie Yip

Spring 2023

- Held office hours, lead review sessions for a class of 70 graduate students – topics included: government and market failures in healthcare, comparative health systems of advanced economies as well as low- and middle- income countries

RDS 280: Decision Analysis for Health and Medical Practices

Harvard T.H. Chan School of Public Health

Teaching Fellow | Professor Ankur Pandya

Fall 2022

- Developed and graded exams, hold office hours, lead review sessions for a class of 90 graduate students with four TFs– topics included: health state preference elicitation, decision modeling using decision tress, and cost-effectiveness analysis

GHP 506: Measuring Population Health

Harvard T.H. Chan School of Public Health

Teaching Fellow | Professor Nick Menzies

Spring 2021, Spring 2022

- Graduate level course for 20 students – developed R tutorial, led lab sections, held office hours

ACTIVITIES

Harvard Chan Korean Society

President

Cambridge, MA, USA

February 2023– Present

Harvard GSAS Orchestra

Clarinet player

Cambridge, MA, USA

September 2021– Present

Harvard Project for Asian and International Relations (HPAIR)

Delegate, selected by HPAIR team

Kuala Lumpur, Malaysia

August 2018

Participated in Social Policy and Justice track on the theme of Sustainable Disruption with delegates from 60 countries

Trilateral Youth Summit

Delegate of Korea, selected by South Korea's Ministry of Foreign Affairs

Beijing, China

September 2017

Participated in a five-day Youth Summit with Chinese and Japanese delegates towards economic integration in Northeast Asia

VOLUNTEER

Harvard GSAS Consulting Club

Vice President of External Relations

Cambridge, MA, USA

October 2023 – Present

Harvard T.H. Chan School of Public Health

Tutor

Boston, MA, USA

October 2020 – December 2020

Provided biweekly curriculum-based assistance for EPI 201/202 courses to a small group of first year SM students

Cambridge City Council

Research Volunteer

Cambridge, MA, USA

March 2020 – May 2020

Provided policy recommendations to the councilor in response to COVID-19 pandemic with a team of six students from MIT and Harvard, by analyzing and comparing successful containment strategies in other countries (e.g. fever monitoring, masks)

HONORS, AWARDS AND GRANTS

Master's thesis award, Global Health and Population department, Harvard School of Public Health

May 2021

Harvard EIP (ESRI Innovation Program) student of the year | ESRI

March 2021

First Prize (10,000 CHF), the Geneva Challenge 2020 | IHEID

October 2020

Aaka Pande Memorial Award (3,000 USD), Harvard School of Public Health

September 2020

Brazil Cities Research Grant (4,700 USD), David Rockefeller Center for Latin American Studies

April 2020

Korean Government Scholarship for Overseas Study (80,000 USD)

August 2019

Excellence Award in FEALAC Youth Summit 2018, MOFA Korea

August 2018

Full Scholarship (4,000 USD) for Academic Excellence in College of Health Science, Yonsei University

Fall 2017

Excellence Award (5,000 USD) in Gangwon Venture Business Competition

June 2017

Full Scholarship (4,000 USD) for Foreign Language Excellence, Yonsei University

Spring 2017

Honors, Yonsei University

Spring 2015

Highest Honors (Full Scholarship – 4,000 USD), Yonsei University

Fall 2014

ADDITIONAL SKILLS

Technical skills : R, Python, STATA, TreeAge, ArcGIS, SaTScan, Microsoft Office, Photoshop, Illustrator

Language skills : Korean (Native), English (Near native), French (Intermediate – B1 level)