

CHEUNG, TSZ HIM (JASON)

+852-64467643 · jasoncheung@uchicago.edu · jthcheung.github.io

RESEARCH INTEREST

Social and Environmental Determinants of Health; Health Intervention Research; Populations with Behavioral, Mental Health, and Social Vulnerabilities; Healthy Aging

EDUCATION

University of Chicago

Ph.D. in Public Health Sciences

CGPA: 4.00/4.00

(Concluded training in Dec 2023 and relocated to Hong Kong for family commitments.)

Sep 2022 - Dec 2023

Chicago, United States

Hong Kong University of Science and Technology

M.Phil. in Social Science

CGPA: 3.86/4.30

Supervisors: Dr. Stuart Gietel-Basten & Dr. Gerald Patchell

Sep 2020 - May 2022

Hong Kong

University of Hong Kong

B.A. in Language and Communication (Minor: Geography)

CGPA: 2.61/4.30 | Senior Year GPA: 3.54/4.30

GPA in Geography: 3.60/4.30

Sep 2014 - Dec 2019

Hong Kong

RESEARCH EXPERIENCE

Department of Public Health Sciences, University of Chicago

Research Rotation (Structure of the Ph.D. Program)

Supervisor: Dr. Brian CHIU

Sep 2022 - Dec 2023

Chicago, United States

- Analysed the association between cigarette smoking and the overall survival of multiple myeloma (a type of getriatric cancer) patients, resulting in a manuscript titled “*Pre-diagnostic Cigarette Smoking and Overall Survival in Newly Diagnosed Multiple Myeloma Patients*”.
- Conducted an exploratory spatial analysis of county-level multiple myeloma incidence rates across the U.S. to generate etiologic hypotheses, resulting in a manuscript titled “*Geospatial Analysis of Population-based Multiple Myeloma (MM) Incidence in the United States*”.
- Collaborated with a colleague to analyse the association between overall survival in multiple myeloma patients, 5hmC signatures in cell-free DNA, and chromosomal abnormalities, resulting in two conference abstracts “*Population-specific 5-hydroxymethylcytosine Signatures in Circulating Cell-free DNA and Overall Survival Among Blacks and Whites with Multiple Myeloma*” and “*Population Differences in the Associations Between Chromosomal Abnormalities and Overall Survival Among Blacks and Whites with Multiple Myeloma*”.
- Designed a follow-up survey using validated instruments to assess quality of life, depression, anxiety, social support, financial burden, intention to seek complementary and alternative medicine, spirituality, and religiosity in a cohort of multiple myeloma patients.

Department of Epidemiology, University of Florida

Visiting Research Student

Supervisor: Dr. Hui HU

Feb 2021 - Aug 2021

Virtual

- Conducted literature review on external exposome-wide association studies (ExWAS) and exposome data collection.

School of Public Health, University of Hong Kong*Research Assistant (Full-time)*

Feb 2020 - Aug 2020

Hong Kong

Supervisor: Dr. Janice JOHNSTON

- Assisted in the distribution of 10,000+ paper surveys to healthcare workers to evaluate their quality of life.
- Managed response collection and ensured data accuracy using Microsoft Access.

Department of Geography, University of Hong Kong*Research Assistant (Part-time)*

Apr 2019 - Jul 2022

Hong Kong

Supervisors: Dr. Peter Keumseok KOH & Dr. Feiyang ZHANG

- Analysed food accessibility among older adults between two gentrifying neighborhoods in Hong Kong using the 3D pedestrian network data accounting for 3D distance, slopes and staircases, resulting in a manuscript titled “*Comparing Food Accessibility Among Older Adults Between Two Gentrifying Neighborhoods in Hong Kong: A Novel “Distance-Slope-Staircases (DSS)” 3D Pedestrian Network Model*”.
- Conducted paper surveys with trained interviewing techniques and assisted older adults in community centers with smartphone app installation for an ecological momentary assessment (EMA) study.
- Investigated the association between socioeconomic status and COVID-19 cases in Hong Kong and South Korea, resulting in a book chapter titled “*Does Socioeconomic Status Matter? A Study on the Spatial Patterns of COVID-19 in Hong Kong and South Korea*”.
- Conducted a systematic review of the food environments in East and South-East Asian context, resulting in a manuscript titled “*The Food Environments of Fruit and Vegetable Consumption in East and Southeast Asia: A Systematic Review*”.
- Analysed clustering of fast-food restaurants around secondary schools in Hong Kong to combat rising trend of childhood obesity, resulting in a manuscript titled “*Geographic Clustering of Fast-Food Restaurants Around Secondary Schools in Hong Kong*”.
- Conducted literature review of the applications of agent-based modeling in health studies.

Department of Urban Planning and Design, University of Hong Kong*Research Assistant (Part-time)*

Apr 2020 - Dec 2020

Hong Kong

Supervisor: Dr. Derrick Hung Chak HO

- Designed an online survey implemented under the Hong Kong Public Opinion Research Institute using validated instruments to assess the risk factors of depression, anxiety, mental well-being and KAP (Knowledge, Attitude, and Practice) on disaster preparedness in Hong Kong during the COVID-19 pandemic, including socio-demographics, commute behavior, family needs, information seeking behavior, and residential environmental exposure.
- Collaborated with colleagues to analyse the prevalence of anxiety and depression and associated risk factors during the COVID-19 pandemic in Hong Kong, resulting in a manuscript titled “*Prevalence of Anxiety and Depression and Associated Risk Factors During the COVID-19 Pandemic: A Population-based Study in Hong Kong*”.

PUBLICATIONS

PEER-REVIEWED ARTICLES

1. **Cheung, JTH.**, Chiu, BTH., & Zhang, W. (2023). Geospatial Analysis of Population-based Multiple Myeloma (MM) Incidence in the United States. *Cancer Epidemiology*, vol. 83: 102343. [PMID:36841019](#). [IF: 2.4]
2. **Cheung, JTH.**, Tang, KC., & Koh, K. (2021). Geographic Clustering of Fast-Food Restaurants Around Secondary Schools in Hong Kong. *Preventing Chronic Disease*, 18, E56. [PMID:34081576](#). [IF: 4.4]

3. **Cheung, JTH.**, Lok, J., Gietel-Basten, S., & Koh, K. (2021). The Food Environments of Fruit and Vegetable Consumption in East and Southeast Asia: A Systematic Review. *Nutrients*, 13(1), 148. PMID:33406719. [IF: 4.8]

ABSTRACTS

1. Wang, B., Zhang, Z., Derman, B., Kowitwanich, K., **Cheung, J.**, Jakubowiak, A., He, C., Zhang, W., & Chiu, B. (2024). Abstract 6157: Population-specific 5-hydroxymethylcytosine Signatures in Circulating Cell-free DNA and Overall Survival Among Blacks and Whites with Multiple Myeloma. *Cancer Research*, 84(6_Supplement), 6157-6157. Published abstract available [here](#). [IF: 12.5]
2. Wang, B., Derman, B. A., **Cheung, J.**, Zhang, W., Jakubowiak, A., & Chiu, B. C. (2023). Abstract B114: Population Differences in the Associations Between Chromosomal Abnormalities and Overall Survival Among Blacks and Whites with Multiple Myeloma. *Cancer Epidemiology, Biomarkers & Prevention*, 32(12_Supplement), B114-B114. Published abstract available [here](#). [IF: 3.7]

BOOK CHAPTERS

1. Li, Z., Ganly R., Cruz CJP., **Cheung, JTH.**, & Gietel-Basten, S. (2022). Population Policies in East Asia and Oceania. In May, JF. & Goldstone, JA. (Ed.) *International Handbook of Population Policies* (pp. 277-312).
2. Koh, K., Park, S., Chan, Y. Y., & **Cheung, TH.** (2021). Does Socioeconomic Status Matter? A Study on the Spatial Patterns of COVID-19 in Hong Kong and South Korea. In R. Akhtar (Ed.) *Coronavirus (COVID-19) Outbreaks, Environment and Human Behaviour: International Case Studies* (pp. 115-142).

MASTER THESIS

Cheung, JTH. (2022). Beyond the dichotomy of “immigrant disadvantage” and “healthy immigrant paradox”: heterogeneities of prevalence, socioeconomic determinants and spatial patterns of low birthweight among natives and immigrant subgroups in Hong Kong. HKUST Archive. Thesis available [here](#).

CONFERENCE POSTER

Cheung, JTH., Yin, YB., & Koh, K. (2022). Biased Cancer-related Tweets by Congress Members in the United States: Implications for Combating Cancer Disparities in the Social Media Age. The Center for Chronic Disease Research and Policy 10th Annual Symposium. Poster available [here](#).

Winner of **The Best Poster Award** @ The Center for Chronic Disease Research and Policy 10th Annual Symposium.

CONFERENCE PRESENTATION & PARTICIPATION

The Center for Chronic Disease Research and Policy 10th Annual Symposium.	25 Oct 2022
<i>The Art and Science of Public Health Communication</i>	<i>Chicago, United States</i>
Cities' COVID Mitigation and Mapping (C2M2) Symposium	Jun 22-25, 2021
<i>Center for Geographic Analysis (CGA), Harvard University</i>	<i>Virtual</i>
UCGIS Symposium 2021: Advancing GIScience-informed Policy Solutions	Jun 7-19, 2021
<i>University Consortium for Geographic Information Science (UCGIS)</i>	<i>Virtual</i>
American Association of Geography (AAG) Annual Meeting 2021	Apr 7-11, 2021
<i>American Association of Geographers (AAG)</i>	<i>Virtual</i>
BSPS Virtual Conference 2020	Sep 15-16, 2020
<i>British Society for Population Studies</i>	<i>Virtual</i>

TEACHING ASSISTANTSHIP

UCHICAGO

PBHS31001 Epidemiologic Methods Dec 2023

PBHS30910 Epidemiology and Population Health Fall 2023

- Nominated for the **2024 Dean's Outstanding Teaching Assistant Prize**.
- Student feedback is available in the bottom section of the **UChicago Fall 2023 course evaluation**.

HKUST

SOSC2140 Research Methods in the Social Sciences Spring 2022

SOSC60300 China's New Silk Route: Social Science Perspectives Fall 2021

SOSC1860 Population and Society Spring 2021

- **Lectured in a course module on Migration.**

RELEVANT TRAINING

EPIDEMIOLOGY & HEALTH POLICY RESEARCH

PBHS30910 **Epidemiology and Population Health** (UChicago) | Dr. Diane Lauderdale

PBHS31001 **Epidemiologic Methods** (UChicago) | Dr. Dezheng Huo

PBHS32100 **Introduction to U.S. Health Policy and Politics** (UChicago) | Dr. Loren Saulsberry

GEOG2143 **Planning in an Era of Changes** (HKU) | Dr. Phyllis Chi Miu Li

GEOG2018 **Transport Geography** (HKU) | Dr. Andre Muller

STATISTICS & ECONOMETRICS

PBHS32100 **Introduction to Biostatistics** (UChicago) | Dr. John Cursio

PBHS32410 **Regression Analysis for Health and Social Research** (UChicago) | Dr. James Dignam

PBHS32700 **Biostatistical Methods** (UChicago) | Dr. Lin Chen

PBHS33400 **Multilevel Modeling** (UChicago) | Dr. Donald Hedeker

PBHS35100 **Health Services Research Methods** (UChicago) | Dr. Prachi Sanghavi

BSDG30900 **BSD Quantitative Biology Bootcamp** (UChicago)

SOSC5090 **Quantitative Methods for Social Science Research** (HKUST) | Dr. Han Li

SOSC5110 **Social Science Research Design and Methods** (HKUST) | Dr. Jin Wang

SOSC5340 **Econometric Approaches to Social Science Research** (HKUST) | Dr. Han Zhang

COMPUTATIONAL ANALYSIS

PBHS34500 **Machine Learning for Public Health** (UChicago) | Dr. Eric Polley

GISC30519 **Spatial Cluster Analysis** (UChicago) | Dr. Pedro Amaral

SOSC5500 **Computational Social Science** (HKUST) | Dr. Han Zhang

GEOG3417 **GIS Applications to Public Health** (HKU) | Dr. Peter Keumseok Koh

GEOG2090 **Introduction to Geographic Information Systems** (HKU) | Dr. Poh Chin Lai

COURSERA **System Science and Obesity** | Johns Hopkins University

TEACHING & ETHICS

BSDG55100 **Responsible, Rigorous, and Reproducible Conduct of Research: R3CR** (UChicago)

PDEV6800I **Introduction to Teaching and Learning in Higher Education** (HKUST)

SKILLS

PROGRAMING & SOFTWARE

R, Stata, Python, ArcGIS, GeoDa, LaTeX, SQL, Google Cloud Platform, Vensim (System Dynamics), NetLogo (Agent-based Modeling)

LANGUAGE

Cantonese (Native), Mandarin (Native), English (Fluent, IELTS 8.0), Korean (Beginner)

SELECTED AWARDS

UChicago Dean's International Student Fellowship	2023-2024
UChicago Ph.D. Student Fellowship	2022-2024
HKUST Postgraduate Studentship	2020-2022

TEST SCORES

Graduate Record Examination (GRE)	Jun & Oct 2021
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Combined Score (based on two attempts): 322

Quantitative Reasoning: 164/170 (81st percentile)

Verbal Reasoning: 158/170 (79th percentile)

Analytical Writing: 4.5/6.0 (80th percentile)

International English Language Testing System (IELTS)	Aug 2020
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Overall Band: 8.0

Reading: 8.5 / Listening: 8.0 / Writing: 7.0 / Speaking: 7.5

COMMUNITY SERVICE

Health & Wellness Graduate Council Committee	2022
<i>University of Chicago</i>	<i>Chicago, United States</i>

Student Ambassador	2019
<i>University of Hong Kong</i>	<i>Hong Kong</i>

Voluntary English Tutor for Orphans	2015-2016
<i>Korea Volunteers</i>	<i>Seoul, Korea</i>

Update: Oct 2024