

CURRICULUM VITAE

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CITIZENSHIP

Canadian

APPOINTMENTS HELD

Jan 2026 - **Future Leaders Fellow, Lead of GeoAI for Health Equity Lab (GAHEL)**
UK Research and Innovation

Jan 2026 - **AI+ Academic Fellow**
King's Institute for Artificial Intelligence

Jan 2026 - **Senior Lecturer (Associate Professor)**
Department of Geography, King's College London

2025 – 2026 **Associate Professor (permanent)**
School of Geography, University of Nottingham

2021- 2025 **Assistant Professor (permanent)**
School of Geography, University of Nottingham

2022 – 2023 **Departmental Adjunct Lecturer (contract)**
School of Geography and the Environment, University of Oxford

2017 – 2018 **Research Associate**
Department of Epidemiology, Biostatistics, and Occupational Health
McGill University, Canada

EDUCATION

2018 – 2021 **DPhil, Geography**
School of Geography and the Environment, University of Oxford
Thesis Title: Human-Environment Interactions on Infectious Disease Risk in Brazil

2015 – 2017 **MSc, Geography**
Department of Geography and Environmental Management
University of Waterloo
Thesis Title: Facilitators and barriers to safely managed water and sanitation:
A spatio-temporal investigation of the association between socioeconomic factors and
shigellosis incidence

2010 – 2015 **BASc**, Environmental Engineering (Co-op with Water Resources Option)
Department of Civil and Environmental Engineering, University of Waterloo

RELEVANT FUNDED RESEARCH

- 2026 - Principal Investigator. “Mapping Health Equity: Equitable Intelligence For Emerging Infections (EI2)”. UKRI Future Leaders Fellowship. £1.58 million.
- 2024 - Principal Investigator. “Mapping Vulnerability During Brazil’s Dengue Crisis”. British Academy ODA Challenge-Oriented Research Grants. £192, 580.
- 2023 - Co-Investigator, “Geographical Prevalence of Forced Child Begging in Niger”, US State Department Office to Monitor and Combat Trafficking in Persons. £1 million.
- 2022 - 2024 Co-Investigator, “Scale of Harm: Geographic Prevalence Estimation of Trafficking in the Philippines”, International Justice Mission Philippines. £121,780.

SELECTED PEER-REVIEWED PUBLICATIONS

*equal contributions; trainee authors are underlined

2026 Bates, I., Li, S. L., Parag, K., Gaythorpe, K., Smallman-Raynor, M., Faria, N. Spatial and Social Determinants of a European Yellow Fever Epidemic in Lisbon. *Under Revision*.

Home, P., Li, S. L., Boyd, D. Biodiversity and healthy cities: examining the associations of geographical characteristics with cycling behaviours using Strava Metro data in Newcastle, UK. *Under Revision*.

2025 Li, S. L., & Emch, M. (2025). A pyramid of human ecology of disease for pandemic preparedness. *Social Science & Medicine*, 118492. doi:<https://doi.org/10.1016/j.socscimed.2025.118492>

Lima, S., Claro, I.M., Hua, X., Jesus, R.,...Li, S.L., Sabino, E.C. Sallum, M.A.M., Weaver, S.C., Faria, N.R., Romano, C.M., Dellicour, S., Proenca-Modena, J.L., de Souza, W.M. West Nile virus transmission in Brazilian epidemiological study. *The Lancet Regional Health–Americas*, 51. doi: [10.1016/j.lana.2025.101229](https://doi.org/10.1016/j.lana.2025.101229)

Chen, K., Yang, W., Huang, C., Wang, J., Li, S.L., Guan, H., Ma, L. GreenNet: A dual-encoder network for urban green space classification using high-resolution remotely sensed images. *International Journal of Applied Earth Observation and Geoinformation*, 142. doi:<https://doi.org/10.1016/j.jag.2025.104709>

Luo, W., Liu, Z., Ran, Y., Li, M., Zhou, Y., Hou, W., ... Li, S.L. & Yin, L. (2025). Unraveling varying spatiotemporal patterns of Dengue Fever and associated exposure-response relationships with environmental variables in three Southeast Asian countries before and during COVID-19. *PLOS Neglected Tropical Diseases*, 19(4), e0012096. doi: <https://doi.org/10.1371/journal.pntd.0012096>

Nyarko-Agyei, A., Moser, S., Seymour, R. G., Brewster, B., Li, S. L., Weir, E., ... & Boyd, D. (2025). A partially pooled network scale-up method model: detailed estimation of child sexual exploitation material trafficking prevalence in Philippine municipalities. *Journal of the Royal Statistical Society Series C: Applied Statistics*. doi: <https://doi.org/10.1093/jrssc/qlaf033>

- 2024 Chen, A., Cao, K., Liu, Y., **Li, S. L.**, Chen, H., & Chiu, M. Y. L. (2024). Nexus Between Exposure to Natural Outdoor Environments and Cognitive Competence among Older Adults in China. *Annals of the American Association of Geographers*, 1-19. doi: <https://doi.org/10.1080/24694452.2024.2380889>
- Li, S. L.***, Prete, C. A.* , Zarebski, A. E.*... & Messina, J. P. (2024). The Brazilian COVID-19 vaccination campaign: a modelling analysis of sociodemographic factors on uptake. *BMJ Open* 2024;**14**:e076354. doi: 10.1136/bmjopen-2023-076354
- Pan, C.Z., Wu, Y., Wang, S., Chapman, M.A., Wang, J., Zhang, L., **Li, S.L.** (2024). Pandemic Fatigue? What Geotagged Tweets Told Us about Spatiotemporal Evolution of Mental Health in Canadian Cities During COVID-19. *Cities*, 151, 105100.
- 2023 Hill, S. C., Dellicour, S., Claro, I.M., Sequeira, P., Adelino, T., Thézé J., Wu, C-H., Moreira, F.R.R., Giovanetti, M., **Li, S.L.**, ... & Faria, N.R. (2022). Climate and land-use shape the spread of zoonotic yellow fever virus. *In Revision for Science*.
- 2022 **Li, S. L.**, Acosta, A. L., Hill, S. C., Brady, O. J., de Almeida, M. A., Cardoso, J. D. C., ... & Messina, J. P. (2022). Mapping environmental suitability of *Haemagogus* and *Sabethes* spp. mosquitoes to understand sylvatic transmission risk of yellow fever virus in Brazil. *PLoS neglected tropical diseases*, 16(1), e0010019. <https://doi.org/10.1371/journal.pntd.0010019>
- Wu, M., Yu, Q., **Li, S.L.**, & Zhang, L. (2022). Geographic and gender disparities in global education achievement during the COVID-19 pandemic, *International Journal of Applied Earth Observation and Geoinformation*, 111, 102850. <https://doi.org/10.1016/j.jag.2022.102850>.
- 2021 **Li, S. L.***, Pereira, R. H.* , Prete Jr, C. A.* , Zarebski, A. E., Emanuel, L., Alves, P. J., ... & Messina, J. P. (2021). Higher risk of death from COVID-19 in low-income and non-White populations of São Paulo, Brazil. *BMJ global health*, 6(4), e004959. 10.1136/bmjgh-2021-004959
- de Souza Santos, A. A., da Silva Candido, D., de Souza, W. M., Buss, L., **Li, S. L.**, Pereira, R. H., ... & Faria, N. R. (2021). Dataset on SARS-CoV-2 non-pharmaceutical interventions in Brazilian municipalities. *Scientific Data*, 8, 73, <https://doi.org/10.1038/s41597-021-00859-1>
- Li, S.L.**, Messina, J.P., Pybus, O.G., Kraemer, M.U.G., & Gardner, L. (2021). A review of models applied to the geographic spread of Zika virus. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 115(9): 956-964, <https://doi.org/10.1093/trstmh/trab009>
- 2020 De Souza, W. M*, Buss, L. F*, da Silva Candido, D.*, Carrera, J. P*, **Li, S***, Zarebski, A., ... & Prete, C. A. (2020). Epidemiological and clinical characteristics of the early phase of the COVID-19 epidemic in Brazil. *Nature Human Behaviour*, 4, 856-865, <https://doi.org/10.1038/s41562-020-0928-4>
*Equal contributions
- Xu, B., Kraemer, M.U.G., Gutierrez, B., Mekaru, S., Sewalk, K., Loskill, A., Wang, L., Cohn, E., Hill, S., Zarebski, A., & **Li, S.**, et al. (2020). Epidemiological data from the COVID-19 outbreak, real-time case information. *Nature Scientific Data*, 7, 106, <https://doi.org/10.1038/s41597-020-0448-0>

Xu, B., Kraemer, M.U.G., Gutierrez, B., Mekaru, S., Sewalk, K., Goodwin, L., Loskill, A., Cohn, E., Hswen, Y., Cobo, M.M., Hill, S., Zarebski, A., & **Li, S.**, et al. (2020). Open access epidemiological data from the COVID-19 outbreak. *The Lancet Infectious Diseases*, [https://doi.org/10.1016/S1473-3099\(20\)30119-5](https://doi.org/10.1016/S1473-3099(20)30119-5).

Li, S., Schmidt, A. M., & Elliott, S. J. (2020). Socioeconomic factors and bacillary dysentery risk in Jiangsu Province, China: A spatial investigation using Bayesian hierarchical models. *International Journal of Environmental Health Research*, 32(1): 220-231, doi.org/10.1080/09603123.2020.1746745

2019 **Li, S.**, Yang, M., Carter, E., Schauer, J.J., Yang, X., Ezzati, M., Goldberg, M., & Baumgartner, J. (2019). Buccal cell telomere length as a biomarker of exposure to household air pollution from biomass stoves. *Environmental Health Perspectives*, 127(8), 087004. <https://doi.org/10.1289/EHP4041>

Liu, M., Zhou, G., Saari, R. K., **Li, S.**, Liu, X., & Li, J. (2019). Quantifying PM2.5 mass concentration and particle radius using satellite data and an optical-mass conversion algorithm. *ISPRS Journal of Photogrammetry and Remote Sensing*, 158, 90-98. <https://doi.org/10.1016/j.isprsjprs.2019.10.010>

2017 Wang, J., Zhang, M., Bai, X., Tan, H., **Li, S.**, Liu, J., . . . & Chen, L. (2017). Large-scale transport of PM2.5 in the lower troposphere during winter cold surges in China. *Nature Scientific Reports*. 7, 13238, <https://doi.org/10.1038/s41598-017-13217-2>

POLICY PAPERS

2023 International Justice Mission and University of Nottingham Rights Lab. (2023). Scale of Harm Research Method, Findings, and Recommendations: Estimating the Prevalence of Trafficking to Produce Child Sexual Exploitation Material in the Philippines. International Justice Mission. [Link to report](#).

2021 **Li, S. L.**, Pereira, R. H.*, Prete Jr, C. A.*, Zarebski, A. E., Emanuel, L., Alves, P. J., ... & Messina, J. P. The International Policy Centre for Inclusive Growth is jointly supported by the United Nations Development Programme and the Government of Brazil. [Link to report](#).

MEDIA CONTRIBUTIONS

2025 **Li, S.L.** Royal Geographical Society - Emerging Research Journeys Podcast (Launch in August 2025).

2022 **Li, S.L.** “COVID-19 through the lens of a health geographer” *Royal Geographical Society (with IBG): Ask the Geographer Podcast*. (April 2022).

2020 Gutierrez, Bernardo & **Li, S.L.** “The need for open data sharing in the era of global pandemics”. (17 November 2020). *London School of Economics and Political Science (LSE) Impact Blog*.

Li, S. “Researching the COVID-19 pandemic from the lens of a health geographer: Maps, spatial scales, and social inequalities”. (26 June 2020). Originally published in the *Royal Geographical Society – IBG Geographies of Health and Wellbeing Research Group*. Re-published in *RGS Blog – Geographical Directions*.

CONFERENCE CONTRIBUTIONS

- 2025 **Session Chair**, “Tackling Health Inequalities Through Nature Exposure: What Makes a Difference?”, 26th – 29th August 2025. Royal Geographical Society Annual Meeting. Birmingham, UK.
- 2023 **Conference Chair**, 1st Conference on Interdisciplinary Perspectives on People, Environment, and Health (IPPEH), 18th May, Nottingham, UK.
- Session Chair**, “Small areas statistics”, 19th – 21st April, GISRUK 2023. Glasgow, UK.
- 2022 **Session Chair**, “Geographic Analysis of Health Conditions” 1st Annual Online Health Geography Symposium for PhD and Emerging Researchers. International Commission on Health and the Environment (IGU CHE).

CONFERENCE PRESENTATIONS

- 2024 **Poster**, Dengue epidemic in Brazil: A framework for equitable pandemic preparedness. The American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, USA.
- Oral**, Mapping Modern Slavery: A case study on child trafficking in the Philippines. Royal Geographical Society Annual Meeting, London, UK.
- 2022 **Oral**, *Sociodemographic inequalities in COVID-19 vaccination in Brazil*, 19th International Medical Geography Symposium, Edinburgh, UK.
- 2018 **Poster**, *Household Air Pollution and Telomere Length in Rural Chinese Women Using Biomass Stoves*. Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, Ottawa, Canada.

INVITED TALKS

- 2025 Speaker
- Panelist. "The Good, the Bad, and the Ugly: Raw Truth from Different Career Paths". IX-WAI Women in Science Career Day, Imperial College London, UK, 11th June 2025.
- 2024 Speaker. “Decoding Outbreaks: Mapping the Intricate Web of Inequality for Pandemic Preparedness”. Royal Veterinary College, London, UK, 30th October, 2024.
- Award Lecture. “Turning Pixels Into Policy”. British Science Festival, University of East London, London, UK, 11th September 2024.
- Speaker. “Mapping Injustice: Understanding Racial and Sociodemographic Disparities in COVID-19 Vulnerability in Brazil”. Geographic Data Science Lab. University of Liverpool, Liverpool, UK, 7th February 2024.
- Speaker. “Mapping Injustice: Understanding Racial and Sociodemographic Disparities in COVID-19 Vulnerability in Brazil”. Geographic Data Science Lab. University of Liverpool, Liverpool, UK, 7th February 2024.

- Speaker. “Race, Place, and Pandemic: A Spatial Analysis of COVID-19 Health Inequalities in Brazil” School of Geographical Sciences. University of Bristol, Bristol, UK, 23rd January 2024.
- 2023 Speaker. “From Idea to Publication: Navigating the Academic Publishing Process”. School of Geographical Sciences. East China Normal University, Shanghai, China, 31st July 2023.
- Speaker. “From emergence, spread, to response: Mapping human-environment interactions on infectious disease risk in Brazil”. Centre for Urban Science & Policy and Institute for Health Systems Science, TU Delft, Delft, The Netherlands, 13th June 2023.
- Workshop Speaker. “Geospatial modelling to assess drivers of infectious disease spread”. CADDE Workshop on Portable Metagenomics for Pathogen Surveillance. 13 – 17 March, Sao Paulo, Brazil.
- 2022 Speaker. “Ideas Salon: The Biggest Breakthroughs” World Congress of Science and Factual Producers, Glasgow, UK, 28 November 2022.
- 2021 Speaker. “Assessing the role of social determinants of health on COVID-19 health inequalities in Brazil”. Department of Behavioural Science and Health, University College London, London, UK, 22 June 2021.
- Speaker. “The application of modelling methods for mapping infectious diseases in Brazil”. Alan Turing Institute. London, UK, 13 April 2021.
- 2020 Speaker. “Researching infectious disease spread through the lens of a health geographer”. London Academy of Excellence. London, UK, 3 July 2020.
- Panelist. “COVID-19 in Brazil: A focus on social inequalities”. Keble College COVID-19 Symposium. Oxford, UK, 2 June 2020.
- Speaker. “Mapping Infectious Diseases: Case Studies of Yellow Fever Virus and the Novel Coronavirus” Keble College Warden’s Lodging Graduate Discussion Evening, Oxford, UK, 5 February 2020.
- 2019 Speaker. “Mosquitoes, monkeys, and mobility: tracking yellow fever in Brazil”. Keble College Alumni Weekend, Oxford, UK, 21 September 2019.

AWARDS, RECOGNITION, AND SCHOLARSHIPS

- 2025 Best Policy Impact Award for “Scale of Harm” project, Institute for Policy and Engagement, University of Nottingham
- 2024 Awards Lecturer in Biological and Medical Sciences, British Science Association
Shortlisted for Science, 25th UK Asian Women of Achievements Award
- 2023 Under 45 Fellow, Future Leaders of Europe, Lucerne Dialogue
- 2022 30 under 30 in Science and Healthcare, Forbes Magazine Europe
Featured Portraits of Keble II Installation, Keble College Oxford
- 2020 Turing PhD Enrichment Scheme Studentship, Alan Turing Institute
- 2019 Doctoral Scholarship, Oxford Martin School
- 2018 Joseph-Armand Bombardier Canada Doctoral Scholarship,

Canadian Social Sciences and Humanities Research Council
2017 Fourth Place, National Aquahacking Finals 2017, Gaspé Beaubien Foundation
2017 Third Place, World's Challenge Pitch Competition, University of Waterloo
2016 MITACS Globalink Research Award, MITACS
2016 Best Poster in the Student Category, H-City Conference, Hong Kong University

CERTIFICATION

2024 Fellowship of Advanced HE (FHEA), Postgraduate Certificate in Higher Education
2022 MHFA England Mental Health Training
2017 Certificate in Fundamentals of University Teaching
2015 WHIMIS Training

PROFESSIONAL SERVICE

2024 - Editorial Board, *Geomatica*
2023 - EDI Officer, Geographies of Health & Wellbeing Research Group, Royal Geographical Society
2021 - Reviewer, *BMC Public Health*, *BMJ Global Health*, *Cities*, *Cities and Health*, *Nature*, *Nature Communications*, *Nature Scientific Data*
2024 - Member, American Society of Tropical Medicine and Hygiene
2021 - Member, American Association of Geographers
2016 - Member, Canadian Association of Geographers

UNIVERSITY SERVICE

2022 - 2023 **Lead**, Nottingham Health Geography Collaborative Research Hub
2021 - 2023 **Scientific Advisor**, University of Nottingham Data-Driven Discovery Initiative
2018 - 2021 **DPhil Representative**, Oxford Geography Joint Consultative Committee
2018 - 2020 **Lead**, Nature, Health and the Built Environment (NHBE) Research Group