

SHUNYA KIMURA

Status: PhD Researcher at the Geospatial Analytics and Computing Group, University College London
Field: Social Data Science, Spatial Analysis
Techs: R, HiveQL, GoogleSQL, Python, Git, Quarto

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EDUCATION

MPhil/PhD Human Geography - University College London

Sep. 2021 - Present

- **Project:** *Unveiling At-Risk Neighbourhoods: A Typology of Online Gambling Behavior in Great Britain Using Large-Scale Consumer Data*; supervised by Professor Paul Longley and Dr Justin Van Dijk
- **Funding:** Bloomsbury and East London Doctoral Training Partnership (UBEL DTP) - Economic and Social Research Council (ESRC) Studentship; co-funded by GambleAware.
- **Mining Real-World Data:** In collaboration with our industry partner, I work with novel behavioral datasets distributed across their data warehouse system. External data linkages are conducted while adhering to appropriate procedures for information governance. [Technologies: BigQuery, Hive, GoogleSQL, HiveQL, R, GitLab, etc.]
- **Unsupervised Machine Learning:** Identifying at-risk social and geographic groups of customers using combination of dimensionality reduction and clustering methods. [Libraries: arrow, datatable, tidyr, stats, factoextra, motifcluster, sf, ggplot2, etc.]
- **Bayesian Spatial Model:** Quantifying and mapping small-area geographic patterns of risk, and assessing their relationships with potential risk factors. [Libraries: INLA, rstan, spdep, sf, ggplot2, etc.]

BA Geography with Quantitative Methods (1st Class) - University College London

Sep. 2018 - Aug. 2021

- **Relevant Modules:** Introduction to Quantitative Research Methods (73%), Geocomputation (68.5%), Data Analysis (74.5%), Mining Social and Geographic Datasets with Python (80.9%), etc..
- **Independent Work:** Dissertation (74%) utilised GPS-data analysis to empirically investigate the usage of a dockless e-bike share system in London. Several spatial and statistical analyses were conducted, including DBSCAN, KDE clustering, and multilevel negative binomial regression. This work was nominated for the 2021 Transport Geography Research Group Undergraduate Dissertation Prize.
- **Advanced Data Analysis:** Have experience with analysing randomised experiments, observational causal inference methods, quasi-experimental methods and with panel data methods.

CONFERENCES AND TALKS

Bristol Hub for Gambling Harms Research Joint Hybrid Seminar - Oral presentation

Mar. 2024

- *Unveiling Online Gambling Behaviour: A Descriptive Analysis of Consumer Data*. The recording and slides are available on [the github link](#).

GIS Research UK (GISRUK) Glasgow - Oral presentation

Apr. 2023

- The slides are available on [the github link](#).
- Kimura, S., Van Dijk, J.T., and Longley, P.A. *The Use of Consumer Data to Explore Geographic and Social Variations in Online Gambling*. Proceedings of the 31st Conference of GIS Research UK (GISRUK). Glasgow: University of Glasgow. doi: 10.5281/zenodo.7828456.

GIS Research UK (GISRUK) Glasgow - Co-author

Apr. 2023

- Winner of the Best Paper Award
- Todd, J., Kimura S., O'Brien, O., and Cheshire, J. *Dominant Trip Purposes within a Dockless Bicycle Sharing System in London*. Proceedings of the 31st Conference of GIS Research UK (GISRUK), Glasgow: University of Glasgow. doi: 10.5281/zenodo.7828473.

CDRC Data Partner Forum 2022 Oxford Saïd Business School - Oral presentation

Nov. 2022

- *A Classification of Online Gambling Behaviour in Great Britain*. The slides are available on [the github link](#).

GIS Research UK (GISRUK) Liverpool - Oral presentation

Apr. 2022

- Winner of the CASA Prize for Best Paper in Spatial Analysis. The slides are available on [the github link](#).
- Kimura, S., Longley, P. A., and Van Dijk, J.T. *Exploring the spatial disparities in gambling risk and vulnerability*. Proceedings of the 30th Conference of GIS Research UK (GISRUK). Liverpool: University of Liverpool. doi: 10.5281/zenodo.6407146.

GRANTS

UBEL DTP International Institutional Visit Scheme - GBP 1,200

Sep. 2021 - Present

- A travel grant for a 35-day visiting research period at the Institute of Disaster Mitigation for Urban Cultural Heritage, Ritsumeikan University at Kyoto, Japan. Invited by Professor Keiji Yano.

RECENT EXPERIENCES

Senior Postgraduate Teaching Assistant - University College London

Jan. 2022 - Apr. 2023

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Postgraduate Teaching Assistant - Queen Mary University London

Nov. 2022 - Jan. 2023

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Data Analyst Intern - BBC

Aug. 2021 - Sep. 2021

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Data Analyst Intern - Climate Policy Initiative

Jun. 2020 - Jul. 2020

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PROFESSIONAL DEVELOPMENT

Introduction to Bayesian Inference and Modelling - UCL Social Data Institute

Jul. 2023

- A four-day intensive course on Bayesian inference covering the basics of Bayesian inference using RStudio and Stan. Taught by Dr. Anwar Musah.

- Learnt how to perform spatial risk prediction for areal data as well as quantify levels of uncertainty using exceedance probabilities.

Advanced Topics in Social and Geographic Data Sciences - UCL Geography

Apr. 2023

- A MSc course on. Taught by Dr. Anwar Musah and Dr. Stephen Law.

LANGUAGE PROFICIENCY

- **Japanese:** Native proficiency; **English:** Full professional proficiency; and **Arabic:** Beginner proficiency