YUANMO HE

Department of Methodology

London School of Economics and Political Science

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EDUCATION

PhD Social Research Methods   09/2020 - 09/2024

London School of Economics and Political Science (LSE)

- Supervisors: Milena Tsvetkova and Kenneth Benoit
- Additional training/research visit: Generative AI with Large Language Models, DeepLearning.AI, 2024; Complex Systems Summer School, Santa Fe Institute, 2023; Workshop on Inequality Across Scales, Space, Time and Domains, The Abdus Salam International Centre for Theoretical Physics, 2023.

MSc Applied Social Data Science (Distinction)   09/2019 - 09/2020

London School of Economics and Political Science

BSc Social Sciences (First Class Honours)   09/2016 - 06/2019

University College London (UCL)

PEER-REVIEWED PUBLICATIONS

Yuanmo He and Milena Tsvetkova. 2023. A method for estimating individual socioeconomic status of Twitter users.. *Sociological Methods & Research*. doi: 10.1177/00491241231168665.

WORK IN PROGRESS

Yuanmo He and Milena Tsvetkova. 2024. Omnivorous, Inconspicuous, and Niche: High Socioeconomic Status is Associated with Diverse Consumption. (Under review at *Social Forces*).

Yuanmo He and Milena Tsvetkova. Socioeconomic inequality in ego-network structure and social interactions on Twitter. (I am actively working on this. Ready to submit after September 2024).

Yuanmo He and Oriol J. Bosch. Socioeconomic divergence in cultural and political online consumption: evidence from survey combined with digital trace data. (I contributed to the survey design and data collection strategy. Data is collected and ready to be analysed).

Ongoing projects initiated at the Complex Systems Summer School:

Cheyenne Jarman, Joris Bücker, Golnar Gharooni Fard, Virginia Domínguez-García, **Yuanmo He**, Faith Masibili, and Annie Stephenson. Music complexity. (Equal contribution leading by the first author. I lead the analyses in the complexity of lyrics.)

Marilena Hohmann, Sam Carter, Pablo Geraldo, **Yuanmo He**, Cheyenne Jarman, Annie Stephenson. When is conflict productive. (Equal contribution leading by the first author. I lead the network analyses of survey data and potential text analysis.)

CONFERENCE PRESENTATIONS

Millions of Mobile-tracked Visits Reveal Socioeconomic Inequality of Daily Consumption.

- The Annual Meeting of the American Sociological Association (Section on Computational Sociology), Philadelphia, US   08/2023
- International Conference on Computational Social Science, Copenhagen, DK (awarded **honourable mentions**; presented by coauthor due to schedule conflict)   07/2023
- The Annual Conference of the International Network of Analytical Sociologists, Princeton, US   06/2023
- ODISSEI Conference for Social Science, Utrecht, NL   11/2022
- European Conference on Social Networks, London, UK   09/2022

A Method for Estimating Individual Socioeconomic Status of Twitter Users.

- Correspondence Analysis and Related Methods, Bonn, DE   09/2023

- General Online Research, online   09/2021
- The Annual Meeting of the American Sociological Association (Section on Inequality, Poverty, and Mobility: New Approaches to Understanding and Addressing Inequality), online   08/2021
- International Conference on Computational Social Science, online   07/2021

TEACHING

Graduate Teaching Assistant, Department of Methodology, LSE
- MY474 Applied Machine Learning   Second Term 2022 and 2023
- MY470 Computer Programming   First Term 2021

Seminar Leader, LSE Summer School
- ME314 Introduction to Data Science and Machine Learning   07/2022

Teaching Assitant, Data Science Summer School, The Hertie School
- Introduction to Python Programming (online)   07/2021

ACADEMIC SERVICE

Developing A Method for Estimating the Socioeconomic Status of Twitter Users, Sage Research Methods Video: Quantitative and Mixed Methods.   2023
PhD Representative of the Department of Methodology, LSE   2022-2023
Co-organiser, Quantitative Methods Reading Group, LSE   2021-2022
Presenter and Discussant, Doctoral Seminar, International Inequalities Institute, LSE   2021-2023

AWARDS AND FUNDING

LSE PhD Studentship, £140,000, LSE   2020-2024
Honourable mentions, International Conference on Computational Social Science   2023
Partial Registration Fee Waiver, $2000, Complex Systems Summer School, Santa Fe Institute   2023
Departmental PhD Support Funding, £2000, LSE   2023
Data Collection Fund, £530, LSE   2023
Postgraduate Travel Fund, £2000, LSE   2022-2023
UCL Institute of Education Faculty Medal, UCL   2019

SKILLS AND INTERESTS

Programming language & statistical software: Python, R, SQL, Spark, Git, Stata, SPSS
Python packages: NumPy, SciPy, pandas, scikit-learn, Matplotlib, NetworkX, PyTorch (non-exhaustive)
R packages: tidyverse, tm, quanteda, glmnet, tree, randomForest, e1071, igraph, statnet (non-exhaustive)
Advanced Data Analysis: machine learning, natural language processing, Large Language Models, social network analysis, multivariate analysis, causal analysis, parallel computing, cloud computing
Languages: Chinese (native), English (bilingual)
Stand-up Comedy: Performed at various settings (e.g., parties, academic workshops, comedy clubs). Getting into the comedy club scene.

REFERENCES

Milena Tsvetkova
Assocated Professor in Computational Social Science
Department of Methodology
The London School of Economics and Political Science
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Kenneth Benoit
Director of the Data Science Institute
The London School of Economics and Political Science
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