

Yen-Chieh (David) Liao

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University of Birmingham

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ACADEMIC POSITIONS

University of Birmingham

Research Fellow in NLP at the Centre for Artificial Intelligence in Government

Sep 2024 –

Affiliate Fellow at the Institute for Data and AI

Jul 2025 –

University College Dublin

Post-doctoral Researcher at the School of Politics and International Relations

Aug 2023 – Sep 2024

University of Bamberg

Pre-doctoral Researcher at the Chair of Comparative Politics

Dec 2021 – Dec 2022

EDUCATION

University of Essex

PhD in Politics

Oct 2017 – Jan 2023

National Taipei University

BA and MA in Public Administration and Policy

RESEARCH

Publications

2025 Catalysts for Progress? Mapping Policy Insights from Energy Research. *Energy Research and Social Science*. (with Brian Boyle, Stefan Müller, Sarah King and Robin Rauner) [DOI: <https://doi.org/10.1016/j.erss.2025.103955>]

2024 (Mis)perception of Party-voter Congruence and Satisfaction with Democracy. *Political Science Research and Methods*. (with Li Tang and Royce Carroll) [DOI: <https://doi.org/10.1017/psrm.2024.48>]

2024 Electoral Reform and Fragmented Polarization: New Evidence from Taiwan Legislative Roll Calls. *Legislative Studies Quarterly* [DOI: <https://doi.org/10.1111/lsq.12459>]

2023 The Role of Rituals in Adversarial Parliaments: An Analysis of Expressions of Collegiality in the British House of Commons. (Invited Contribution) *Historical Social Research*. 48 (3): 209-234. (with David Beck and Thomas Saalfeld) [DOI: <https://doi.org/10.12759/hsr.48.2023.31>]

2015 The Rationale for Supporting Nuclear Power: Analysis of Taiwanese Public Opinion Survey. *International Relations of the Asia-Pacific*. 15 (1): 147-176. (with Xiaochen Su, Chung-li Wu, Tai-De Lee, and Chen Tsao) [DOI: <https://doi.org/10.1093/irap/lcu019>]

Under Review

Electoral Reform and Geographically-Targeted Oversight: Evidence from Taiwan Legislative Yuan. (with Li Tang)
Revised and Resubmitted

Estimating Factions of Red Guard under Mao's China: A Slogan-based Text Scaling Method with Historical Documents. (with Yi-Nung Tsai) *Invited to Revise and Resubmit*

ACADEMIC TRAINING PROGRAMMES

2024 *ARCHER2 Message Passing Programming with MPI*, EPCC (Edinburgh Parallel Computing Centre) | *Introduction to High Performance Computing (SLURM)*, BlueBEAR (Birmingham Environment for Academic Research)

2023 *Oxford Large Language Models for Social Science Workshop*; *57th Essex Summer School in Social Science Data Analysis*, Advanced Survey Data Analysis and Survey Experiments

2022 *56th Essex Summer School in Social Science in Data Analysis*, Introduction to Social Network Analysis

2021 *Machine Learning Summer School*, Standard Training Programme; *55th Essex Summer School in Data Analysis*, Advanced Methods for Text-as-Data: Natural Language Processing | Quantitative Methods for Causal Inference and Policy Evaluation

2019 *54th Essex Summer School in Social Science in Data Analysis*, Introduction to Bayesian Analysis for the Social Sciences

2018 *53rd Essex Summer School in Data Analysis*, Ideal Point Estimation and Scaling Methods | Generalized Linear Models

CODE & OPEN-SOURCE PACKAGES

flaiR: An R wrapper for accessing the Flair NLP library in Python.

legisTaiwan: An R package for accessing real-time Taiwan Legislative Data.

asmcjr: An R Package for Supporting the Book 'Analyzing Spatial Models of Choice and Judgment.

TEACHING & SUPERVISION

MSc Thesis Supervision(UNIVERSITY OF BIRMINGHAM)

2024-2025 Florida Ferizolli (MSc in AI and Government) | Jiaqi Liu (MSc in AI and Sustainable Development)

Course and Module

2024 *University College Dublin* Quantitative Text Analysis (Led by Stefan Müller)

Guest Lecturer in Weeks on Word Embeddings and Transformers

Workshops and Seminars

2025 *Taipei R LADIES*

Data Analysis and Applications with **legisTaiwan** and Taiwan Legislative Yuan API.

2024 *SPIRe PhD Workshop University College Dublin*

Introduction to High-Performance Computing with SLURM

2023 *GESIS Fall Seminar in Computational Social Science*

Instructor in Big Data and Computation for Social Data Science (Co-lecturing with Dr. Akitaka Matsuo)

2022 *55th Essex Summer School in Social Science Data Analysis*

Teaching Assistant in Quantitative Text Analysis | Introduction to Programming in Python

2021 *54th Essex Summer School in Social Science Data Analysis*

Teaching Assistant in Introduction to Quantitative Methods in R

2021 *EITM Europe Summer Institute*

Teaching Assistant in Quantitative Text Analysis Using R and Linking Theory with Text as Data

2020 *53rd Essex Summer School in Social Science Data Analysis*

Teaching Assistant in Introduction to Quantitative Text Analysis

2020 *ECPR Summer School*

Teaching Assistant in Machine Learning with Big Data for Social Scientists

2019 53rd Essex Summer School in Social Science Data Analysis

Teaching Assistant in Introduction to Quantitative Text Analysis

RESEARCH GRANTS & SELECTED FUNDING

2023 The Scholarship for Attending Oxford Large Language Models for Social Science Workshop (£300)

2021–2022 Taiwan Overseas Pioneers Grants of Ministry of Science and Technology Taiwan (Aug 2021 - Jul 2022), USD\$32,000

2018 Attendance Scholarships (£250) to Essex Summer School in Social Science Data Analysis

2017–2021 The Government Doctoral Scholarship in Legislative Studies and Comparative Politics, Ministry of Education Taiwan (Aug 2017- Jul 2021), USD\$168,000

PEER REVIEW ACTIVITIES

European Journal of Political Research x 2; *Political Science Review* x 3; *Political Science Research and Methods* x 3; *Journal of Taiwan Politics* x 1; *Legislative Studies Quarterly* x 2

CONFERENCES (*: discussant; +: poster presentation)

2025 PolMeth Europe, LSE; PolMeth Summer Meeting*, Emory University, Atlanta; APSA, Vancouver*; EPSA*, Madrid.

2024 COMPTXT, Amsterdam; EPSA, Cologne; APSA*, Philadelphia.

2023 EPSA, Glasgow; APSA*, LA; ECPR SG Parliaments, Vienna

2022 ECPR, Innsbruck; PolMeth Summer Meeting, St. Louis USA⁺, COMPTXT, Dublin

2022 Machine Learning Summer School, Taiwan⁺; APSA, Online

2019 EPSA, Online; Asian PolMeth*, Online

2018 EPSA, Belfast

REFERENCES

Prof. Stefan Müller
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Prof. Royce Carroll
Department of Government
University of Essex
🌐 essex.ac.uk

Prof. Thomas Saalfeld
Chair of Comparative Politics
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