

# Yen-Chieh (David) Liao

The Centre for Artificial Intelligence in Government and the Institute for Data and AI  
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 Systems and Geographically-Targeted Oversight: Evidence from Taiwan Legislative Yuan. (with Li Tang) *Revised and Resubmitted, Electoral Studies*

Estimating Factions of Red Guard under Mao's China: A Slogan-based Text Scaling Method with Historical Documents.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)
- 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; 55<sup>th</sup> 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

- flairR**: 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; *Government and Opposition*

## 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<sup>+</sup>, COMPTXT, Dublin

2022 Machine Learning Summer School, Taiwan<sup>+</sup>; APSA, Online

2019 EPSA, Online; Asian PolMeth\*, Online

2018 EPSA, Belfast

## REFERENCES

**Prof. Stefan Müller**  
School of Politics and International Relations  
University College Dublin  
🌐 [muellerstefan.net](https://muellerstefan.net)

**Prof. Royce Carroll**  
Department of Government  
University of Essex  
🌐 [essex.ac.uk](https://essex.ac.uk)

**Prof. Thomas Saalfeld**  
Chair of Comparative Politics  
University of Bamberg  
🌐 [uni-bamberg.de](https://uni-bamberg.de)

**Prof. Slava Jankin**  
Chair in Data Science and Government  
University of Birmingham  
🌐 [sjankin.com](https://sjankin.com)