

# 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Estimating Factions of Red Guard under Mao's China: A Slogan-based Text Scaling Method with Historical Documents.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** 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](mailto:muellerstefan.net)

### **Prof. Royce Carroll**

Department of Government  
University of Essex

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### **Prof. Thomas Saalfeld**

Chair of Comparative Politics  
University of Bamberg

✉ [uni-bamberg.de](mailto:uni-bamberg.de)

### **Prof. Slava Jankin**

Chair in Data Science and Government  
University of Birmingham

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