

# 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>]

**2025** Bureaucratic Reinterpretation of Leaders' Ideologies: A Case Study of People's Daily's Commentary on Xi Jinping Thought on Diplomacy (in Chinese). *Mainland China Studies*. (with Yi-Nung Tsai) [[https://doi.org/10.30389/MCS.202503\\_68\(1\).0003](https://doi.org/10.30389/MCS.202503_68(1).0003)]

**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, Journal of Computational Social Science*.

Electoral Reform and Issue Attention in Legislative Oversight: From SNTV to Mixed-Member Majoritarian System in Taiwan. (with Yu-Ceng Liao and Yi-ting Wang) *Under Review*.

## Selected Working Papers

Multi-Agent Systems with LLMs for Synthetic Survey Experiments on Misinformation: Design and Implementation. (with Linette Lim and Slava Jankin)

Cross-Lingual Stance Detection in Political Texts: Comparison and Application. (with Stefan Müller)

Political Text Analysis with Embedding Regression: From Multilingual to Cross-lingual Application. (with Chen Zheng, Winnie Xia and Slava Jankin)

## **ACADEMIC TRAINING PROGRAMMES**

2024 *ARCHER2 Message Passing Programming with MPI*, EPCC (Edinburgh Parallel Computing Centre)

2023 *Oxford Large Language Models for Social Science Workshop*; 57<sup>th</sup> *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 *54<sup>th</sup> Essex Summer School in Social Science in Data Analysis*, Introduction to Bayesian Analysis for the Social Sciences

2018 *53<sup>rd</sup> 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**

### University of Birmingham MSc Supervision

2024-05 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

### Invited Talks

2025 *Centre of Taiwan Studies, SOAS*

Taiwan's Electoral System & Legislative Behaviour

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)

### Teaching and Workshops

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. Thomas Saalfeld**

Chair of Comparative Politics  
University of Bamberg  
✉ [uni-bamberg.de](http://uni-bamberg.de)

**Prof. Slava Jankin**

Chair in Data Science and Government  
University of Birmingham  
✉ [sjankin.com](http://sjankin.com)

**Dr. Nicole Baerg**

Department of Government  
University of Essex  
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**Prof. Jonathan Sullivan**

School of Politics and International Relations  
University of Nottingham  
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**Prof. Royce Carroll**

Department of Political Science  
University of Houston  
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