

# 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 by 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

### Teaching and Workshops

**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 to in Quantitative Text Analysis | Introduction to Programming in Python

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

Teaching Assistant for Johannes Karreth — Course: Introduction to Quantitative Methods in R

### **2021 EITM Europe Summer Institute**

Teaching Assistant for Ken Benoit and Nicole Baerg — Course: Quantitative Text Analysis

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

Teaching Assistant for Iulia Cioroianu — Course: Quantitative Text Analysis

### **2020 ECPR Summer School**

Teaching Assistant for Akitaka Matsuo - Course: Machine Learning with Big Data for Social Scientists

### **2019 53rd Essex Summer School in Social Science Data Analysis**

Teaching Assistant for Iulia Cioroianu — Course: Quantitative Text Analysis

## **RESEARCH GRANTS & 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, USD\$32,000

**2022** University of Essex Departmental Fund for attending 2022 MPSA, £900

**2019** University of Essex Departmental Fund for attending 2019 EPSA, £450

**2018** Attendance Scholarships to Essex Summer School in Social Science Data Analysis, £250

**2017–2021** The Government Doctoral Scholarship in Legislative Studies and Comparative Politics, Taiwan's Ministry of Education 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 3; *Government and Opposition* x 1

## **CONFERENCES (\*: discussant; +: poster presentation)**

**2025** PolMeth Europe (LSE) | PolMeth Summer Meeting<sup>+</sup> (Emory) | APSA (Vancouver)\* | EPSA (Madrid)\*

**2024** COMPTTEXT (Amsterdam) | EPSA (Cologne) | APSA (Philadelphia)\*

**2023** EPSA (Glasgow) | APSA (LA)\* | ECPR SG Parliaments (Vienna)

**2022** ECPR (Innsbruck) | PolMeth Summer Meeting (WashU)<sup>+</sup> | COMPTTEXT (Dublin)

**2021** MLSS (NTU, Taipei)<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](mailto:uni-bamberg.de)

### **Prof. Slava Jankin**

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

### **Dr. Nicole Baerg**

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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**

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University of Houston  
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