

# Yen-Chieh (David) Liao

Research Fellow at the Centre for Artificial Intelligence in Government  
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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

MA in Public Administration and Policy

Sept 2010 – Feb 2014

BA in Public Administration and Policy

Jun 2005 – Aug 2010

## RESEARCH

### Publications

**2025** Catalysts for Progress? Mapping Policy Insights from Energy Research. *Energy Research and Social Science*. With Brian Boyle (Newcastle), Stefan Müller (UCD), 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 (Reading) and Royce Carroll (Essex) [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. *Historical Social Research*. 48 (3): 209-234. With David Beck and Thomas Saalfeld (Bamberg) [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 (University of Tokyo), Chung-li Wu (Academia Sinica), 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. *Revise and Resubmit*

Estimating Factions of Red Guard under Mao's China: A Slogan-based Text Scaling Method with Historical Documents. With Yi-Nung Tsai (Academia Sinica)

## PEER REVIEW ACTIVITIES

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

## Working Papers

Who Believes and Shares Fake News: A Multi-Agentic System for Experimental Misinformation Research with Large Language Models. With Linette Lim (UCD) and Slava Jankin (Birmingham).

Embedding Regression in Multilingual Political Text: An Application.

How Electoral Systems Shape Policy Attention Proximity: Evidence from Taiwan's Ministerial Interpellations. With Yu-Ceng Liao (Academia Sinica) and Yi-ting Wang (NCKU)

Selecting and Validating Classifiers for Multilingual Stance Detection. With Stefan Müller (UCD)

Grandstanding under the Spotlight: Unveiling Elites Crisis Communication in the Council of the European Union. With James Cross and Paula Montano (UCD)

## 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

## TEACHING & SUPERVISION

### MA Supervision (University of Birmingham)

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

## MAINTAINER OF 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.'

## RESEARCH GRANTS & FUNDING (SELECTED)

**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

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

**2025** PolMeth Europe, LSE; PolMeth Summer Meeting\*, Emory University, Atlanta; APSA, Vancouver\*; EPSA\*, Madrid.  
**2024** COMPTExT, 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>, COMPTExT, Dublin  
**2022** Machine Learning Summer School, Taiwan<sup>+</sup>; APSA, Online  
**2019** EPSA, Online; Asian PolMeth\*, Online  
**2018** EPSA, Belfast

## REFERENCE

<b>Stefan Müller</b> (University College Dublin)	<b>Thomas Saalfeld</b> (University of Bamberg)
<b>Royce Carroll</b> (University of Essex)	<b>Nicole Baerg</b> (University of Essex)
<b>Jonathan Sullivan</b> (University of Nottingham)	