Yen-Chieh (David) Liao

Research Fellow at the Centre for Artificial Intelligence in Government
The School of Government in the University of Birmingham
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ACADEMIC POSITIONS

University of Birmingham

Research Fellow 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 th 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

University of Essex

Senior Research Officer, Department of Government   Jun 2019 – Oct 2019

Academia Sinica (Taiwan)

Senior Research Assistant, Institute of Political Science   Feb 2014 – Jul 2017

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. *2ˆ{nd} Round Revised and Resubmitted*

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).

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 and Cross-Domain 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, Vacouver*; 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+, COMPTEXT, Dublin

2022 Machine Learning Summer School, Taiwan+; APSA, Online

2019 EPSA, Online; Asian PolMeth*, Online

2018 EPSA, Belfast

REFERENCE

Dr Stefan Müller (University College Dublin)   **Dr Thomas Saalfeld** (University of Bamberg)

Dr Royce Carroll (University of Essex)   **Dr Nicole Baerg** (University of Essex)