Yen-Chieh (David) Liao

The Centre for Artificial Intelligence in Government and the Institute for Data and AI
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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 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

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 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Estimating Factions of Red Guard under Mao's China: A Slogan-based Text Scaling Method with Historical Documents.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)

Working Papers

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

Embedding Regression in Multilingual Political Text: An Application. (with Chen Zheng, Winnie Xia and Slava Jankin)

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

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

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

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

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

MA Supervision

Florida Ferizolli	**Jiaqi Liu**
MSc in AI and Government	MSc in AI and Sustainable Development
University of Birmingham	University of Birmingham

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

CONFERENCES (*: 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

REFERENCES

Prof. Stefan Müller
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University College Dublin
🌐 muellerstefan.net

Prof. Thomas Saalfeld
Chair of Comparative Politics
University of Bamberg
🌐 uni-bamberg.de

Prof. Slava Jankin
Chair in Data Science and Government
University of Birmingham
🌐 sjankin.com

Prof. Nicole Baerg
Department of Government
University of Essex
🌐 nicolebaerg.com

Prof. Jonathan Sullivan
School of Politics and International Relations
University of Nottingham
🌐 www.nottingham.ac.uk

Prof. Royce Carroll
Department of Government
University of Essex
🌐 essex.ac.uk