

David (Yen-Chieh) Liao

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CURRENT POSITION

Postdoctoral Researcher (in data science) at [Laboratory for Democratic Innovations and Social Movements](#)
and Department of Global Studies, Aarhus University Dec 2022 - present

Visiting Fellow at the Chair of Comparative Politics in the Bamberg Graduate School of Social Sciences, in
University of Bamberg Apr 2023 - present

WORKING EXPERIENCE

Pre-doctoral Researcher at the Chair of Comparative Politics (Prof. Thomas Saalfeld), University of Bamberg
Dec 2021-Dec 2022

Senior Research Officer at the Department of Government (Prof. Royce Carroll), University of Essex Jun
2019 – Oct 2019

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

EDUCATION

PhD in Politics, University of Essex Oct 2017 – Jan 2023

MA in Public Administration and Policy, National Taipei University Sept 2010 – Feb 2014

BA in Public Administration and Policy, National Taipei University Jun 2005 – Aug 2010

TEACHING (*: TA)

2023 Big Data and Computation for Social Data Science *GESIS Fall Seminar in Computational Social Science*
(Co-lecturing with Dr. Akitaka Matsuo)

2022 Quantitative Text Analysis* Introduction to Programming in Python for Social Scientists* 55th *ESSEX SUMMER SCHOLL(ESS)*

2021 Introduction to Quantitative Methods in R*, 54th *ESS* | Quantitative Text Analysis Using R and Linking Theory with Text as Data*, *EITM Europe Summer Institute*

2020 Machine Learning with Big Data for Social Scientists* *ECPR Summer School* | Introduction to Quantitative Text Analysis* 53rd *ESS*

2019 Introduction to Quantitative Text Analysis* 52nd *ESS*

ACADEMIC TRAINING

2021 Empirical Implications of Theoretical Models of Parliamentary Politics and Populism *EITM-OSLO Summer Institute*

2022 Introduction to Social Network Analysis 56rd *ESS*

2021 Advanced Methods for Text-as-Data: Natural Language Processing; Quantitative Methods for Causal Inference and Policy Evaluation 55rd *ESS* | Standard Training Programme *2021 Machine Learning Summer School*

2019 Introduction to Bayesian Analysis for the Social Sciences 54th *ESS*

2018 Ideal Point Estimation and Scaling Methods; Generalized Linear Models 53rd *ESS*

WORKING PAPERS & WORKS IN PROGRESS

The Role of Rituals in Adversarial Parliaments: An Analysis of Expressions of Collegiality in the British House of Commons (with Thomas Saalfeld and David Beck, University of Bamberg, *R&R*)

Factionalism and the Red Guards under Mao's China: Ideal Point Estimation Using Text Data (with Yi-Nung Tsai, National Chengchi University; Daniel Tene, University of Essex; Dechun Zhang, Leiden University *Submitted*)

(Mis)perception of Party-voter Congruence and Satisfaction with Democracy (with Li Tang, Middlesex University London; Royce Carroll) [[pdf](#)]

Electoral Reform and Fragmented Polarization: New Evidence from Taiwan Legislative Roll Calls [[pdf](#)]

Estimating Politically Expressive Preference with Context-Aware Named Entities (with Thomas Saalfeld and David Beck)

Measuring Party Cohesion on Parliamentary Question Keywords (with Calvin Liao, NCCU, Taiwan)

Party Competition in Times of Crisis (with Thomas Saalfeld and David Beck)

Securitization in Words: Text Analysis of Taiwan's COVID-19 Press Conferences (with Chia-Chien Chang NSYU, Taiwan; Wei-Ting Yen, Franklin and Marshall College, USA; Li-Yin Liu, University of Dayton, USA)

Unraveling Pork Barrel Dynamics through Explainable Machine Learning Methods: A Case Study of CAGW Congressional Pig Book (with Sunil Green)

PHD THESIS

Title: *Electoral Reform, Distributive Politics, and Parties in the Taiwanese Congress* [[pdf](#)]

CONFRENCEN PRESENTATION (*: DISCUSSANT ; +:POSTER)

2018 EPSA

2019 EPSA | APSA | AsianPolMeth

2021 EPSA | MLSS

2022 APSA | ECPR | PolMeth⁺ | COMPTTEXT

2023 APSA* | EPSA | EuropePolMeth⁺ | ECPR | PolMeth⁺

TOOLBOX

legisTaiwan: An R package for accessing real-time and archives of Taiwan legislative data.

asmcjr : An R package supports the book “*2nd Analyzing Spatial Models of Choice and Judgment*”, and streamlined functions for scaling and visualising estimates with ggplot2 with Dave Armstrong, Royce Carroll, Christopher Hare, Ryan Bakker, Keith Poole, Howard Rosenthal.

legisCrawler: An automation web crawling framework for retrieving parliamentary questions on the Website of Taiwan Legislative Yuan in Python.

bisCrawler: An automation web crawling framework for retrieving for Extracting Central Bankers' Speeches on the Website of the Bank for International Settlements in Python.

RESEARCH GRANTS & FUNDING

2022 SHAPE – Shaping Digital Citizenship, Aarhus University (with Prof. Cristina Flesher Fominaya and Dr. Natalia Miranda), *Methods and Approaches for the Study of Algorithms, Digital Activism and Social Movements* (DKK 60,998)

2022 University of Essex Departmental Fund (£900) and Travel Grant from Taiwan's Council of Indigenous Peoples for attending 2022 MPSA Conference (USD\$678)

2019 University of Essex Departmental Fund (£450) and Travel Grant from Taiwan's Council of Indigenous Peoples (USD\$630) for attending 2019 EPSA Conference

2018 Attendance Scholarships (£250) to Essex Summer School in Social Science Data Analysis

2021-2022 Ministry of Science and Technology Taiwanese Overseas Pioneers Grants (Aug 2021 - Jul 2022), USD\$32,000

2017-2021 The Government Doctoral Scholarship in Legislative Studies and Comparative Politics, Ministry of Education Taiwan (Aug 2017- Jul 2021), USD\$168,000

REFERENCE

Dr Royce Carroll Professor in Comparative Politics at University of Essex

Dr Thomas Saalfeld Professor of Chair of Comparative Politics at University of Bamberg

Dr Nicole Baerg Senior Researcher in the Bank of England and Senior Lecturer at Department of Government in University of Essex

Dr Pei Kuang Associate Professor in Macroeconomics, University of Birmingham