David, Yen-Chieh Liao

PhD Candidate at Department of Government University of Essex

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RESEARCH INTERESTS

distributive politics, legislative control and oversight, quantitative study of ideological position and preference, natural language processing, computational social science

CURRENT POSITION

Pre-doctoral Researcher of Legislators between Accountability and Collective Agency (LACAN) at the Chair of Dec 2021-Comparative Politics, University of Bamberg

TOP Grants Research Fellowship, Taiwan Ministry of Science & Technology

Aug 2021- Jul 2022

EDUCATION

PhD Candidate at Department of Government, University of Essex	Nov 2018 – Expected Sep 2022
MPhil/PhD Student at Department of Government, University of Essex	Oct 2017 – Nov 2018
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

ACADEMIC TRAINING

2021 Quantitative Methods for Causal Inference and Policy Evalu	ation 55 ^t h Essex Summer School
—— Standard Training Programme	Machine Learning Summer Schools (MLSS)
—— Advanced Methods for Text-as-Data: Natural Language Prod	cessing 55 ^t h Essex Summer School
2019 Introduction to Bayesian Analysis for the Social Sciences	54 ^t h Essex Summer School
2018 Ideal Point Estimation and Scaling Methods	53 ^r d Essex Summer School
—— Generalized Linear Models	53 ^r d Essex Summer School

WORKING PAPERS

Electoral Reform and Disunited Polarization: Evidence from Legislative Roll Calls [paper]

Electoral Reform and Pork Barrel in Parliamentary Questions [paper]

Mayors and Pork Barrel: Legislative Experience Bias in Intergovernmental Transfers to Taiwan Municipalities [paper]

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)

Party Misperception, Party Incongruence and Political Distrust (with Li Tang and Royce Carroll) [paper]

WORKS IN PROGRESS

Measuring Party Cohesion on Parliamentary Question Keywords (co-authored with Calvin, Yu-Ceng Liao, Post Doctoral Research Fellow at Taiwan Studies Center, National Chengchi University)

This is What We Hope: Estimating Perceptions on Political Trust (with Li Tang, University of Essex and Middlesex University London)

State-led Nationalism: Measuring China's Online Nationalists on Weibo (with Dechun Zhang, Leiden University)

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Topic Models for Political Short Texts: An Application, Validation and Compromises (with Julia Ju Yuon Park, University of Essex)

Estimating Fiscal Policy Objectives in the UK with Text Analysis (with Li Tang and Pei Kuang, University of Birmingham)

Economic Policies and Party Perception: Evidence from a Randomized Controlled Trial (with Li Tang; Pei Kuang; Chung-li Wu, Academic Sinica)

CONFERENCE

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2022 MPSA | APSA | COMPTEXT | PolMeth XXXIX | ECPR
2021 Asian PolMeth VIII | MLSS
2020 APSA
2019 EPSA
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EXPERIENCE

Teaching Assistant

2021 Introduction to Quantitative Methods in R (Instructor: Dr. Johannes Karreth, Ursinus College), 54^{th} Essex Summer School, Jul 2021

— Quantitative Text Analysis Using R (Instructor: Prof. Ken Benoit, LSE) and Linking Theory with Text as Data (Instructor: Dr. Nicole Baerg), Europe Empirical Implications of Theoretical Models, May 2021

2020 Machine Learning with Big Data for Social Scientists (Instructor: Dr. Akitaka Matsuo), 15^{th} ECPR Summer School, Aug 2020

—— Scaling Methods for Social Science: Measuring Patterns and Preferences in Surveys and Behavior (Instructor: Prof. Royce Carroll), 53rd Essex Summer School, Aug 2020

—— Introduction to Quantitative Text Analysis (Instructor: Dr. Iulia Cioroianu, University of Bath), 53rd Essex Summer School, Jul 2020

2019 Introduction to Quantitative Text Analysis (Instructor: Dr. Raymond Hick, Columbia University), 52nd Essex Summer School, Jul 2019

Research Assistant

Research Officer to Prof. Royce Carroll, University of Essex, Jun 2019 – Oct 2019

Senior Research Assistant to Prof. Chung-li Wu, Institute of Political Science, Academia Sinica, Feb 2014 – Jul 2017

Graduate Research Assistant to Prof. Ching-jyuhn Luor, Department of Public Administration and Policy, National Taipei University in Taiwan, Jul 2010 - Jan 2014

SKILLS

Programmings R (statistical analysis, parallel computing, machine learning under *mlr*³ API framework, natural language processing using *UDpipe* framework), Python (webscraping in *Selenium*, natural language processing in *SpaCy*, *CoreNLP* and *NLTK*, machine learning using *sklearn* and deep learning with *Tensorflow* and *Huggin Face* API), HTML & CSS (working knowledge in webscraping and website editing)

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Computing AWS, CERES (High Performance Computing at University of Essex)

Editing LATEX, Hugo, Markdown

Advertising Google Analytics

Software & IDE PyCharm, VScode, JupyterLab, Rstudio

SERVICES TO ACADEMIC ACTIVITIES

Manuscript Referee

Political Studies Review; Economics - The Open-Access, Open-Assessment Journal

Seminar Organiser

Organizer for POPE Research Group (Public Opinion, Parties and Elections), Oct 2019 - May 2020

Organizer for HEROES (Helping Each-other Research On Empirical Subjects) / PhD Colloquium, Oct 2018 - May 2019

RESEARCH GRANTS

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

TOOLKIT

asmcjr The asmcjr package supports the book "2nd Analyzing Spatial Models of Choice and Judgment", and streamlined functions for scaling and visualising estimates with ggplot2 in R

legisCrawler An automation web crawling framework for retrieving parliamentary questions on the Website of Taiwan Legislative Yuan (https://lis.ly.gov.tw/) based on Selenium and Chrome browser

bisCrawler An automation web crawling framework for retrieving for extracting speeches from the Website of Bank for International Settlements (https://www.bis.org) based on Selenium and Chrome browser

lacanCrawler An Automation Webcrawler for Extracting Parliamentary Questions from Janpan's Diet, the UK Parliament and the Scottish Parliament.

REFERENCE

Prof. Royce Carroll Professor in Department of Government, the University of Essex and Director of Essex Summer School in Social Science Data Analysis

Dr. Nicole Baerg Senior Researcher at the Bank of England and Senior Lecturer (Associate Professor) in Department of Government, University of Essex

Dr. Pei Kuang Associate Professor in Macroeconomics, University of Birmingham

Prof. Chung-li Wu Research Fellow (Professor) and the Head of Institute of Political Science at Academia Sinica, Taiwan

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