David, Yen-Chieh Liao

Wivenhoe Park, Colchester, CO4 3SQ, UK

✉ yl17124@essex.ac.uk · ⌨ davidycliao · ⊕ davidycliao.github.io | *Updated:* Jun. 10, 2021

RESEARCH INTEREST

distributive politics, legislative politics, quantitative study of ideology and political attitudes, computational social science.

EDUCATION

University of Essex, UK

PhD Candidate, Department of Government   Oct 2018 –

> **Supervisors**: Nicole Baerg and Royce Carroll
> **Chair**: Akitaka Matsuo
> **Dissertation Titles** :Polarization and Competition within the Congress: The Applications of Computational Social Science

MPhil/PhD student, Department of Government   Oct 2017 – Dec 2018

National Taipei University, Taiwan

MA, Public Administration and Policy   Sep 2010 – Feb 2014

BA, Public Administration and Policy   Jun 2005 – Aug 2010

RESEARCH PROJECT

PhD Thesis: Essays in Taiwan Legislative Politics

2021. "Electoral Incentives and Porks: Exploring Parliamentary Questions Using Convolutional Neural Networks (in progrss)"

2020. "Electoral Reform and Disunited Polarization: Evidence from Legislative Roll Calls". with Li Tang (University of Birmingham) (presented in **The Virtual 2020 APSA**) ⌨

2019. "Mayors and Pork Barrel: Legislative Experience Bias in Intergovernmental Transfers to Taiwan Municipalities". (presented in **2019 EPSA**) ⌨

Cooperative Project

2021. "Income Inequality, Party Misperception and Democracy Distrust". with Royce Carroll (University of Essex), Li Tang (University of Birmingham), Tzu-Ping Liu (University of Taipei) (Accepted in 2021 EPSA)

2021. "Estimating Fiscal Policy Objectives in the UK with Text Analysis (in progress)". with Li Tang (University of Birmingham) and Pei Kuang (University of Birmingham)

2021. "Factionalism and the Red Guards under Mao's China: Ideal Point Estimation Using Text Data". with Yi-Nung Tsai (National Chengchi University), Dechun Zhang (Leiden University) (presented in 2021 AsianPolmeth Presentation VIII) ⌨

EXPERIENCE

Teaching Assistant

Teaching Assistant, Text As Data: Theory and Application, *Empirical Implications of Theoretical Models Europe*, Jun 14 - Jun 25 2021

Teaching Assistant to Dr Akitaka Matsuo (University of Essex), VB21 - Machine Learning with Big Data for Social Scientists, 15th *ECPR Summer School in Methods and Techniques*, Aug 10 - 14 2020

Teaching Assistant to Dr Royce Carroll, 3L Scaling Methods for Social Science: Measuring Patterns and Preferences in Surveys and Behavior, 53rd *Essex Summer School in Social Science Data Analysis*, Aug 10 – 21 2020 ○

Teaching Assistant to Dr Iulia Cioroianu (University of Bath), 1B Introduction to Quantitative Text Analysis, 53rd *Essex Summer School in Social Science Data Analysis*, Jul 13 - 24 2020

Teaching Assistant to Dr Raymond Hick (Columbia University), 1B Introduction to Quantitative Text Analysis, 52nd *Essex Summer School in Social Science Data Analysis*, Jul 13 - 24 2019

Research Assistant

Graduate Research Assistant to Dr Royce Carroll, University of Essex, Jun 2019 – Oct 2019 ○

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

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

ADDITIONAL TRAINING

ESSEX SUMMER SCHOOL in Social Science Data Analysis

Quantitative Methods for Causal Inference and Policy Evaluation (taught by Dr Burt Monroe), 25th Jul - 6 Aug 2021

Advanced Methods for Text-as-Data: Natural Language Processing (taught by Dr Burt Monroe), 25th Jul - 6 Aug 2021

Causal Inference and Experiments in the Social Sciences (taught by Dr Ryan T. Moore), 27 Jul – 7 Aug 2020

Introduction to Bayesian Analysis for the Social Sciences (taught by Dr Ryan Bakker), 22 Jul – 4 Aug 2019

Ideal Point Estimation and Scaling Methods (taught by Dr Royce Carroll), 6 - 17 Aug 2018

Generalized Linear Models (taught by Dr Patrick Shea), 22 Jul - 2 Aug 2018

University of Essex

An Introduction to R for PGR (taught by Dr. Thomas Cameron and Dr. Etienne Low-Decarie), Department of Biological Science, 8 - 12 January 2018

SKILLS

Programmings R, Python (working knowledge in natural language processing, machine/deep learning and webscraping)

Database MySQL & MySQLWorkbench

Editing LATEX, HTML & CSS (working knowledge in web editing and webscraping), Hugo

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

SCHOLARSHIPS AND GRANTS

Received 2020 Department Fund (£950) and Travel Grant from Taiwan Government (Council of Indigenous Peoples, USD\$1165) for attending 2020 MPSA Conference *cancelled*

Received 2019 Department Fund (£450) and Travel Grant from Taiwan Government (Council of Indigenous Peoples, USD$630) for attending 2019 EPSA Conference

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

Awarded the 2017 Taiwan Government Scholarship to Study Abroad in the Field of Legislative Studies (4 years), USD$42,000 per annum

Awarded the 2015 Taiwan Government Visiting Scholarship for the participation at the ICPSR Summer Program, University of Michigan, approximately USD$4,980 *declined*

SERVICES TO ACADEMIC ACTIVITIES

Seminar Organiser

Co-organizer for POPE Research Group (Public Opinion, Parties and Elections) for early career researchers at Department of Government, the University of Essex, Oct 2019 - May 2020.

Co-organizer for HEROES (Helping Each-other Research On Empirical Subjects) / PhD Colloquium at Department of Government, the University of Essex, Oct 2018 - May 2019.

Membership

2019 EPSA; 2020 MPSA; 2020 APSA; 2021 EPSA

PACKAGES

asmcjr (with Dave Armstrong, Royce Carroll, Christopher Hare, Ryan Bakker, Keith Poole, Howard Rosenthal)

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

legisTaiwan (coming soon)

An R package for searching and retrieving the titles of budgets, the legislation, the speeches and legislator demographics from Taiwan Parliamentary Data Catalogs via Parliamentary Library API.

legisCrawler (with Calvin Yu-Ceng Liao)

An automation web crawling framework for retrieving parliamentary questions on The Website of Legislative Yuan (https://lis.ly.gov.tw/) based on Selenium & Scrapy in Python and Chrome browser.

REFERENCE

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

Dr Nicole Baerg, Senior Lecturer (Associate Professor) in Department of Government, The University of Essex and Co-Director of The Essex Summer School in Social Science Data Analysis.

Dr Chung-li Wu, Research Fellow (Professor) and Director, Institute of Political Science, Academia Sinica, Taipei.

Dr. Tamir Libel, Senior Lecturer (Associate Professor) at the Swedish Defence University (beginning in 08/2021)

Dr Tzu-Ping Liu, Assistant Professor, Department of Social and Public Affairs at The University of Taipei.