

# David, Yen-Chieh Liao

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## 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: Royce Carroll and Nicole Baerg; Chiar: Akitaka Matsuo)

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

### National Taipei University, Taiwan

MA, Public Administration and Policy Sep 2010 – Aug 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 Legislative Inquiries Using Convolutional Neural Networks (in progress)"
- 2020. "Electoral Reform and Disunited Polarization: Evidence from Legislative Roll Calls". with Li Tang (University of Birmingham) (presented in **the Virtual 2020 APSA**; presented in **2020 Annual Conference of the Taiwanese Political Science Association**, National Taiwan University, Taiwan) [[GitHub](#)]
- 2019. "Mayors and Pork Barrel: Legislative Experience Bias in Intergovernmental Transfers to Taiwan Municipalities". (presented in **2019 EPSA**; accepted in **2020 Asian PolMeth VII (Poster Session)** at HKU, canceled due to unforeseen circumstances in Hong Kong) [[Github](#)]

### Working Paper

- 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) (presented 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](#)) [[GitHub](#)]

## EXPERIENCE

### Teaching Assistant

Teaching Assistant to Dr Akitaka Matsuo (University of Essex), VB21 - Machine Learning with Big Data for Social Scientists, 15<sup>th</sup> 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, 53<sup>rd</sup> Essex Summer School in Social Science Data Analysis, Aug 10 – 21 2020 [[Github](#)]

Teaching Assistant to Dr Iulia Cioroianu (University of Bath), 1B Introduction to Quantitative Text Analysis, 53<sup>rd</sup> 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, 52<sup>nd</sup> 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 [[Github](#)]

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

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

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

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

Generalized Linear Models (taught by 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

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

**Database** MySQL & MySQLWorkbench

**Document Editing** L<sup>A</sup>T<sub>E</sub>X, HTML & CSS (working knowledge in web editing and webscraping), Hugo

**High Performance Computing** Amazon EC2, CERES Cluster (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

## OTHERS

### 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](#) (in progress)

An R package for searching & retrieving data from Parliamentary Data Catalogs via Parliamentary Library API.

### Data Preprocessings and Collection

Webscrapped Legislative Inquiries of Taiwan Legislative Yuan from 1996 to 2020 (*data is available upon request*)

Pre-trained CNNs Model for Pork Barrel Classification Task [[Github](#)]