

# 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 –

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

### Working Paper

“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; the Virtual 2021 EPSA) 

“Electoral Reform and Disunited Polarization: Evidence from Legislative Roll Calls”. with Li Tang (University of Birmingham) (presented in the Virtual 2020 APSA) 

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

### Work in Progress

“Electoral Incentives and Pork: Exploring Parliamentary Questions Using Convolutional Neural Networks (in progress)” (Scheduled to present in the poster session at 2021 Machine Learning Summer School and 2021 Latin America PolMeth V in Mexico)

“Income Inequality, Party Misperception and Democracy Distrust”. with Royce Carroll (University of Essex), Li Tang (University of Birmingham), Tzu-Ping Liu (University of Taipei)

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

## EXPERIENCE

### Teaching Assistant

Teaching Assistant to Dr Johannes Karreth (Ursinus College) 2L Introduction to Quantitative Methods in R, 54<sup>th</sup> Essex Summer School in Social Science Data Analysis, July 26 – August 6 2021

Teaching Assistant to Dr Ken Benoit (LSE) Quantitative Text Analysis Using R and Nicole Baerg (University of Essex) Linking Theory with Text as Data at, *Empirical Implications of Theoretical Models Europe (EITM Europe)*, Jun 14 - Jun 25 2021

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

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

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

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

## **SCHOLARSHIPS AND GRANTS**

Awarded 2021 Taiwanese Overseas Pioneers Grants (**TOP Grants**), Taiwan's Ministry of Science & Technology (MOST) and The Science & Technology Policy Research and Information Center (STPI) of the National Applied Research Laboratories of Taiwan (NARLabs) (USD\$32,000)

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

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 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.