



Keng-Chi Chang

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Education

PhD Student in Political Science, University of California, San Diego 2018/9–

- Studies Computational Social Science, Political Economy, and Political Methodology

BA & MA in Economics, National Taiwan University 2011/9–2017/6

- Rank 3%, Phi Tau Phi Award, GPA: Major 4.17/4.30, Math 4.30/4.30, Last 40 4.30/4.30
- Math: Advanced Calculus, Linear Algebra, Advanced Statistical Inference, ...

Visiting Graduate Student, University of Wisconsin-Madison 2015/8–2016/5

- Fully funded by Taiwan Ministry of Education Future Scholar Study Abroad Scholarship

Research

“Using Facebook Data to Predict the 2016 U.S. Presidential Election”

with Ming-Jen Lin and Chun-Fang Chiang

- Guess user’s location by likes and assume users support politicians with closer ideology
- FB-based support rates predicts outcome and share similar trends with state level polls
- Polls systematically overestimate Clinton’s support in right-leaning states

“Ideology Estimation, Media Slant, and Opinion Segregation: Facebook as a Social Barometer”

Master Thesis, National Tawian University. Advisors: Ming-Jen Lin, Chun-Fang Chiang

- Place users, politician, and media on the same ideological scale using TBs of like records
- Replicates conentional measures and smooth mass ideology distribution at state levels
- Measures media slant and segregation of public opinion across time and issues

“Social Mobility in Ming China: Evidence from Twelve Thousand *Ching-shih* Data”

with Ming-Jen Lin

- Challenge the conventional wisdom that civil service exam was meritocratic
- Use detailed data of past 3 generations to estimate the effect of family background on tests
- Multi-staged examination structure provides chances to partially control for ability

Experience

Research Assistant for Professor [Molly Roberts](#), UC San Diego 2018/7–present

- Building and studying database for all court cases in China

Research Assistant for Professor [Yiqing Xu](#), UC San Diego 2018/9–present

- Finding valid inferential frameworks for different panel data estimators

Research Assistant, Economic and Statistical Data Research Center, NTU 2017/8–2018/7

Teaching Assistant, Profs. Joseph Tao-yi Wang and Kelly B. Olds, NTU	2016/9–2017/6
Research Assistant, Prof. Ming-Jen Lin, National Taiwan University	2014/9–2015/6

Other Works

Software Resources

fb-score A Python package automatically calculates ideology scores of Facebook fan pages.

- Like records of users \rightsquigarrow Page shared users matrix \rightsquigarrow Page scores \rightsquigarrow User scores.
- Minimizes memory usage and reliance on other packages.
- Developed for my thesis. Now mainly for internal use and is still updating. See a [demo](#).

NTUthesis-socsci A handy X_Y-L^AT_EX template for writing NTU thesis in social sciences.

- Improve file structure efficiency and adopt Chicago Author-Date citation style.

Popular Science

TalkEcon.com One of the most popular weekly social science blog in Chinese.

- One of the founders; manage hosting and domain; design and update the website; write.
- Members include plenty current econ PhD students in Chicago, Columbia, UCSD, etc.

“Questioning Inequality: About *Capital in the Twenty-First Century*.” 2015. *NTU Alumni Bi-monthly*, 98: 16–18. with Prof. Ming-Jen Lin

- Introduce the ideas of the book and criticisms from the academia to the general public.

Presentations

“Using Facebook Data to Predict 2016 US Presidential Election” in *Innovations in Political Methodology and China Study International Conference*. 2018-05-29.

Awards

Awards Phi Tau Phi, Dean’s List \times 4 (NTU); Taipei Mayor’s Special Award (CKHS).

Scholarships Ministry of Education Future Scholar Study Abroad Scholarship (\$44,000); Shanghai Bank Scholarship; Chiang Chih-Hui Scholarship; Igarashi Scholarship; Longshan Scholarship.

Skills

Programming & Softwares

Fluent: R, Stata, SQL, Python, L^AT_EX, HTML, CSS, BibT_EX; Experience: MATLAB, Git, ArcGIS