

# Keng-Chi Chang

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## Education

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

- Studies Statistical Methods, Computational Social Science, Political Economy & Behavior

**BA & MA in Economics, *Summa Cum Laude*, 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
- Courseworks: Real Analysis, Linear Algebra, Statistical Inference, Econometric Theory, ...

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

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

**Taipei Municipal Chien Kuo High School** 2008/9–2011/6

- Graduated with Mayor's Special Award, twice elected as honors student

## Research

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[“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 distinct political actors (politician, media, interest groups) on same ideology scale.
- Forecast 2016 election well and can measure opinion segregation across time and issue.
- Generate smooth mass ideology distribution at not only national but also state levels.
- Strengths: Add time and text dimension, smooth mass distribution, data public available.

[“Social Mobility in Ming China: Evidence from Twelve Thousand \*Ching-shih\* Data”](#)

with Prof. 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

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**Research Assistant, Economic and Statistical Data Research Center, NTU** 2017/8–present

- Analyze Facebook data; manage work stations; organize data science workshops.

**Teaching Assistant, Profs. Joseph Tao-yi Wang and Kelly B. Olds, NTU** 2016/9–2017/6

- Teach weekly review sessions for Principles of Economics class.

**Research Assistant, Prof. Ming-Jen Lin, National Taiwan University** 2014/9–2015/6

- Review and organize literatures on intergenerational mobility of income and wealth.

**Research Assistant, Prof. Elaine M. Liu, University of Houston** 2014/6–2014/8

- Collect historical data about the spread of Malaria and saving behavior in Taiwan's 1960s.

## Other Works

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### 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<sub>Y</sub>-L<sup>A</sup>T<sub>E</sub>X 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

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

## Awards

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**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

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### Programming & Softwares

Fluent: R, Stata, SQL, Python, L<sup>A</sup>T<sub>E</sub>X, HTML, CSS, BibT<sub>E</sub>X; Experience: MATLAB, Git, ArcGIS