

Tangbin Chen

MSc. IN COMPUTATIONAL SOCIAL SCIENCE

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Education

MSc in Computational Social Science

08/2019 - 06/2022

LINKÖPING UNIVERSITY

- **Program Description:** I was trained to harness complex data and advanced computational tools like causal inference, social network analysis, agent-based modeling, and machine learning to understand human behaviors and address important social questions.
- **Degree Project:** Protest-related information diffusion on Twitter - a case study of online protest #KillTheBill
 - **Supervisor:** Christian Steglich, associate professor at Linköping University
 - **Brief abstract:** To gain a deeper understanding of the social influence that drives the dissemination of protest-related information on social media, this study focused on the evolution of users' hashtag adoption with empirical data collected from Twitter. The dynamics of users' adoption of the protest hashtag was unfolded on the network of the users with the stochastic actor-oriented model (SAOM).

BEng in Resource Prospecting Engineering

09/2015 - 06/2019

SOUTHWEST PETROLEUM UNIVERSITY

- **Program Description:** I was trained to apply the knowledge of geoscience, mathematics, physics, chemistry, and computer science to prospect the mineral reserves.
- **Degree Project:** Ordovician Reservoir Connectivity of Jinyue Block In Halahatang Oilfield, Northern Tarim Basin
 - **Supervisor:** Hongming Dai, professor at Southwest Petroleum University
 - **Brief abstract:** I used SPSS to conduct clustering analysis of data generated from gas chromatography of 20 crude oil samples to group them so that the connectivity between oil wells could be predicted. The robustness of the results was tested by analyzing the production dynamic data collected during the past 10 years.

Professional Experience

Research Assistant

11/2022 - 12/2023

LINKÖPING UNIVERSITY

- **Project #1: Fertility spillover.** I used the large social network data from Swedish registers to gain insights into the spillover effects of social influence on fertility from one social network context to another.
- **Project #2: Cumulative advantages.** In this project, I applied regression discontinuity design to examine the cumulative advantage of exposure to prestigious Universities. Meanwhile, I also investigated the cumulative advantage of the birth month effect.
- **Others:**
 - I participated in analyzing if people were becoming more or less similar to their neighbors, schoolmates, colleagues, etc. using Swedish population-level social networks.
 - I also assisted with teaching Statistics and OLS lab lectures.

Part-time research assistant

03/2020 - 11/2020

LINKÖPING UNIVERSITY

- I collected data from multiple sources, including Wikidata, Microsoft Academic Graph, Google Scholar, Academic Family Tree, etc.
- I cleaned the data and systematically stored and documented it.
- I described and illustrated the data in detail and carried out basic social network analyses.

Skills

Language Chinese (Native), English (C1)

Programming R, Python, NetLogo

Computational Instrumental variable, regression discontinuity, fixed effect, stochastic-actor oriented model, exponential random graph model, clustering, discrete choice model, survival analysis

References

MARTIN ARVIDSSON

- Postdoc
- The Institute for Analytical Sociology, Linköping University
- martin.arvidsson@liu.se

CHRISTIAN STEGLICH

- Associate Professor
- The Institute for Analytical Sociology, Linköping University
- christian.steglich@liu.se

Other Experience

12/2018 - 04/2019

Corporation Communication Intern

Volvo Cars

09/2016 - 06/2017

Part-time Tutor

Shicheng Education

Consulting Co., Ltd