

YONGCHAO MA

426 Thompson Street ◊ Ann Arbor, MI 48106

ytma@umich.edu ◊ yongchaoma.com

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RESEARCH INTERESTS

Adaptive Survey Design, Survey Nonresponse, Human-Computer Interaction, Software Engineering

EDUCATION

University of Michigan, United States

Apr 2026

Ph.D. in Survey and Data Science

Utrecht University, The Netherlands

May 2021

M.Sc. in Methodology and Statistics (With Highest Distinction)

Track: European Master in Official Statistics (EMOS)

University of Macau, Macau

Jun 2019

M.S.Sc. in Criminology and Criminal Justice

Linköping University, Sweden

Jan 2019

Exchange, Computational Social Science

PROFESSIONAL EXPERIENCE

Utrecht University

Aug 2021 - Jul 2022

Research Engineer

Utrecht, The Netherlands

- Design and develop the front-end user interface for ASReview LAB, an open-source AI-based software that helps researchers accelerate the screening of textual data for systematic reviews and meta-analyses as efficiently and transparently as possible
- Develop REST APIs to communicate between the front-end and back-end of the software

Utrecht University

Feb 2020 - Jul 2021

Graduate Research Assistant

Utrecht, The Netherlands

- Pre-process the metadata of the benchmark systematic review datasets for ASReview LAB
- Develop wordclouds for visualizing keywords in the article titles/abstracts in a systematic review dataset
- Web application front-end (React JavaScript) and back-end (Python Flask) development training

Statistics Netherlands

Sep 2020 - Jul 2021

Intern Methodologist

The Hague, The Netherlands

- Develop a methodology under Bayesian analysis to stratify the target population into subgroups and assign different data collection strategies to them
- Validate the effectiveness of the methodology in reducing survey nonresponse bias

PEER-REVIEWED JOURNAL ARTICLES

van de Schoot, R., de Bruin, J., Schram, R., Zahedi, P., de Boer, J., Weijdemans, F., Kramer, B., Huijts, M., Hoogerwerf, M., Ferdinands, G., Harkema, A., Willemsen, J., **Ma, Y.**, Fang, Q., Hindriks, S., Tummers, L., & Oberski, D. L. (2021). [An open source machine learning framework for efficient and transparent systematic reviews](#). *Nature Machine Intelligence*, 3(2), 125-133.

CONFERENCE PRESENTATIONS

Ma, Y., Mushkudiani, N., Schouten, B., 2021. An optimal stratification approach for addressing nonresponse bias in Bayesian adaptive survey design. Paper presented at 7th International Workshop on Advances in Adaptive and Responsive Survey Design.

Ma, Y., Mushkudiani, N., Schouten, B., 2021. [Optimal stratification in Bayesian adaptive survey designs](#). Paper presented at the European Survey Research Association Conference.

Ma, Y., 2016. The change of the sociopolitical attitudes of the middle class in China: 2003–2013. Paper presented at the Annual Meeting of the Chinese Sociological Association.

INVITED TALKS

Ma, Y., 2022. [Human-centered AI through reliable graphical user interfaces](#). The 1st ASReview Users Meeting, Jul 1, Utrecht, The Netherlands.

SOFTWARE DEVELOPMENT

[asreview](#) ASReview: Active learning for systematic reviews (Maintainer)

[asreview-wordcloud](#) Wordclouds: A tool to create a visual impression of the verbal content within a systematic review dataset

HONORS & AWARDS

Outgoing Exchange Scholarship, University of Macau

May 2018

CERTIFICATES

[Python for Everybody Specialization](#) by University of Michigan

Apr 2016

National Computer Rank Examination of China, Level 4 (Network Engineering)

Sep 2015

National Computer Rank Examination of China, Level 3 (Computer Network)

Mar 2015

National Computer Rank Examination of China, Level 2 (C Programming Language)

Sep 2014

TECHNICAL SKILLS

Programming Language

R, Python, JavaScript, HTML, CSS, SQL, Markdown

Statistical Software

SPSS, Stata, HLM, Mplus, JAGS

Other Software

git, L^AT_EX

PROFESSIONAL AFFILIATIONS

Asian Criminological Society

European Survey Research Association