

EDUCATION

Stanford Graduate School of Business
Ph.D. in Marketing

Expected 2027

RESEARCH POSITIONS

Adversarial Collaboration Project, The Wharton School
Research Associate

May 2022

- Responsible for the development, management, analysis, and write-up of 7 research projects
- Assisted in multiple research experiments; edited papers; delivered presentations at lab meetings

PUBLICATIONS

Mellers, B. A., **Lu, L.**, & McCoy, J. P. (2023). Predicting the future with humans and AI. *Consumer Psychology Review*, 6(1), 109-120. <https://doi.org/10.1002/arcp.1089>

Tetlock, P. E., **Lu, Y.**, & Mellers, B. A. (2022). False dichotomy alert: Improving subjective-probability estimates vs. raising awareness of systemic risk. *International Journal of Forecasting*.

Karvetski, C. W., Meinel, C., Maxwell, D. T., **Lu, Y.**, Mellers, B. A., & Tetlock, P. E. (2022) What do forecasting rationales reveal about the thinking patterns of top forecasters? *International Journal of Forecasting*, 38(2), 688-704.

Lu, Y., & Xu, G. (2019). The experience and future of Chinese water governance. *Administration Reform* (02), 33-40.

WORKING PAPERS

Mellers, B. A., McCoy, J. P., **Lu, Y.**, Tetlock, P. E. Humans, Algorithms and Geopolitical Forecasting Tournaments: Quantifying Uncertainty in Hard-to-Quantify Domains. *Forthcoming in Perspectives on Psychological Science*.

Clark, C. J., ... **Lu, Y.**, ... & Wilson, A. Scientific censorship by scientists: A review and research agenda. *Submitted to Science*.

Clark, C. J., Fjeldmark, M., **Lu, Y.**, ... & Tetlock, P. E. Taboos and Self-Censorship Among Psychology Professors. *Submitted to Perspectives*.

Lu, Y., Bicchieri, C., & Wang, C. (In prep). Asymmetrical inference of norms messages: a cross-cultural study.

PRESENTATIONS

Lu, Y., Crawford, J., Van Bavel, J., Clark, C. J., & Tetlock, P. E. (February 2022). Is psychology literature politically biased? An adversarial collaboration meta-analysis. Talk was presented at the annual meeting for the Society of Personality and Social Psychology, San Francisco, CA.

RESEARCH EXPERIENCE

Can Machine Learning Detect the Political Slant of Research?

Research Project in The Adversarial Collaboration Project at UPenn (PIs: Drs. Tetlock and Mellers)

- Programmed BERT (NLP) model in Python to classify categorical ideologies of abstracts of ~500 social sciences publications; coded two NLP models (word2vec, N-grams) in Python
- Designed an unsupervised-learning model (fuzzy string matching) in Python to search ideology information of ~4,600 psychology professors using Federal Election Commission data; scraped tweets using Twitter API

Is There Systematic Self-Censorship Among Social Scientists?

Research Project in The Adversarial Collaboration Project at UPenn (PIs: Drs. Tetlock and Mellers)

- Scraped the contact information of ~4,600 psychology professors from 150 school websites in Python
- Designed a Qualtrics survey to investigate social science professors' beliefs about taboo research conclusions

Improving Counterfactual Forecasting in Simulations That Permit Reruns of History

Research Project in Drs. Tetlock and Mellers' Lab at Wharton

- Drafted the manuscript as the corresponding and second author for publication
- Coded Goofspiel game simulations in R; conducted power analysis; analyzed experimental data from 1,674 qualified participants in R; designed measures to capture noise and bias reductions in accuracy improvements

What Do Forecasting Rationales Reveal About the Thinking Patterns of Top Forecasters?

Research Project in Drs. Tetlock and Mellers' Lab at Wharton

- Designed, trained, and validated two machine learning textual classifiers (Comparison Class and Fermi-izing) in R based on 69,264 pieces of textual inputs to detect the unique cognitive typologies in forecasting rationales
- Analyzed forecast rationales by generating psycho-linguistic measures called Integrative Complexity and LIWC

Asymmetrical Inference of Norms Messages: A Cross-Cultural Study

Independent Research at UPenn (Advisor: Dr. Cristina Bicchieri)

- Formulated a set of hypotheses to explore the norm inference of Chinese and American people; developed a 2 x 2 x 2 between-subjects factorial design; designed 22 norm scenarios and emotion measures
- Conducted power analysis; built Qualtrics surveys in Mandarin and English; ran 4 studies and recruited ~4,500 Chinese and American participants; solved policy restrictions for distributing foreign surveys in Mainland China

TEACHING EXPERIENCE

Managerial Decision Making (EMBA), The Wharton School

Teaching Assistant, Instructor: Dr. Joseph P. Simmons

Evaluated and graded assignments of ~80 EMBA students; contributed to the design of curriculum and exams

Python for Data Analysis (Undergraduate), Zhejiang University of Technology

Teaching Assistant, Instructor: Dr. Qiang Shen

Held weekly office hours to guide students with data analysis projects; helped create course syllabus; graded assignments

QUANTITATIVE SKILLS

Software: R; Python; STATA; SPSS; G*Power; LaTeX; HTML; Qualtrics; MTurk; Prolific

Machine Learning Methods: Natural language processing (N-gram, Word2vec, Bert); Random Forest; SVM; data scraping; principal component analysis; factor analysis; hidden Markov models

ADDITIONAL INTERESTS

Piano performer (Tier B certificate); college band singer & drama actor; clarinet performer; cat rescuer (rescued 10 cats)