

Yi-Ta Lu

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| CONTACT INFORMATION | Department of Human Behavior, Ecology and Culture Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6, 04103 Leipzig, Germany | yi.ta.lu@eva.mpg.de https://yitalu.github.io |
| ACADEMIC POSITIONS | Postdoctoral Researcher <i>BirthRites</i> Lise Meitner Research Group Department of Human Behavior, Ecology and Culture Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany | Sep 2021 to Present |
| | Lecturer Department of Political Science State University of New York at Stony Brook, NY, USA | Jul 2018 to May 2021 |
| | Full-Time Research Assistant Department of Economics National Taiwan University, Taiwan | Jun 2012 to Jul 2014 |
| EDUCATION | Ph.D. in Political Science State University of New York at Stony Brook, NY, USA | May 2021 |
| | M.A. in Economics State University of New York at Stony Brook, NY, USA | Dec 2015 |
| | M.S. in Physics National Chiao Tung University, Taiwan | Jun 2011 |
| | B.S. in Physics National Cheng Kung University, Taiwan | Jun 2009 |
| DOCTORAL DISSERTATION | <i>Policy Cooperation Under Threats: Effects of Competition on Coalition Lobbying</i> Committee: Oleg Smirnov (Advisor), Reuben Kline, John Barry Ryan, Tim Johnson | |
| RESEARCH INTERESTS | Political Economy, Development, Social Dilemmas, Demographic Transition, Cultural Evolution | |
| RESEARCH METHODS | Agent-Based Modeling, Statistical Analysis (Bayesian, Frequentist, Time Series), Game Theory, Lab Experiments, Survey Experiments | |
| RESEARCH EXPERIENCE | Graduate Research Assistant Department of Political Science Stony Brook University With: Andrew Delton, John Barry Ryan, Oleg Smirnov, and Peter DeScioli | Aug 2016 to May 2018 |
| | Visiting Student Department of Psychology The Ohio State University With: Ian Krajbich | Jun 2015 to Aug 2015 |
| PUBLICATIONS | Lu, Y. T. , & Colleran, H. (in press). Fertility Transitions. In J. Tehrani, J. Kendal, & R. Kendal (Eds.), <i>The Oxford Handbook of Cultural Evolution</i> . Oxford University Press. | |

Lee, C. S., Wang, M., Nanjappa, D., **Lu, Y. T.**, Meliker, J., Clouston, S., Gobler, C. J., & Venkatesan, A. K. (2023). Monitoring of Over-the-Counter (OTC) and COVID-19 Treatment Drugs Complement Wastewater Surveillance of Sars-Cov-2. *Journal Of Exposure Science And Environmental Epidemiology*, 1-9.

Lu, Y. T., Hwang, W. H., Hsieh, Y. T., Ho, T. Y., Zhu, J. D., Yeh, C. I., & Huang, C. Y. (2022). Choices Behind the Veil of Ignorance in Formosan Macaques. *PNAS Nexus*, 1(4).

Shin, I., Wang, L., & **Lu, Y. T.** (2022). Twitter and Endorsed (Fake) News: The Influence of Endorsement by Strong Ties, Celebrities, and a User Majority on Credibility of Fake News During the COVID-19 Pandemic. *International Journal of Communication*, 16, 23.

Chung, H. K., Sjöström, T., Lee, H. J., **Lu, Y. T.**, Tsuo, F. Y., Chen, T. S., Chang, C. F., Juan, C. H., Kuo, W. J., & Huang, C. Y. (2017). Why Do Irrelevant Alternatives Matter? an fMRI-TMS Study of Context-Dependent Preferences. *Journal of Neuroscience*, 37(48), 11647-11661.

Deng, D. M., **Lu, Y. T.**, & Chang, C. H. (2017). Fluctuation Relations Between Hierarchical Kinetically Equivalent Networks With Arrhenius-Type Transitions and Their Roles in Systems and Structural Biology. *Physical Review E*, 95(6), 062401.

WORK IN
PROGRESS

“Cultural Inheritance Determines the Emergence and Diffusion of Low Fertility in Wealth-Inheriting Populations” with Heidi Colleran.

“Does Inter-Generational Social Mobility Explain Human Fertility Decline? A Classic Model Fails to Replicate” with Heidi Colleran.

“Congress’s Role in Concentrating Wealth in the United States” with Matthew Lebo and Gregory Koger.

“An Agent-Based Model of Elections with Endogenous Candidates, Voters, and Media” with Oleg Smirnov and John Barry Ryan.

“Policy Cooperation Under Threats: Effects of Competition on Coalition Lobbying” (single author).

“Does Media Bias Cause Political Polarization? an Agent-Based Model of Biased Media, Motivated Reasoners, and Political Polarization” (single author).

“Trust, Inequality and Redistributive Demands in Latin America” with Robert Vidigal.

PROGRAMS AND
AWARDS

Software Carpentry Workshop Nov 29 - Dec 3, 2021
Scientific Computing for Evolutionary Anthropology
Max Planck Institute for Evolutionary Anthropology

Honorable Mention Aug 24-27, 2021
for participation in the *Social Simulation Workshop/Competition*
Institute of Sociology, Academia Sinica, Taiwan

International Winter School on Agent-Based Modeling (with certificate) Jan 4-15, 2021
Network for Computational Modeling in Social and Ecological Sciences
Arizona State University

BIGSSS Summer School in Computational Social Science *Expected: Jul 2020*
Department of Sociology
University of Groningen, Netherlands
(*program postponed to Jul 2021 due to COVID-19 outbreak*)

SICSS Grant for Survey Experiment on Amazon Mechanical Turk (\$1000) Jul 2020
 Summer Institute in Computational Social Science
 Duke University

Summer Institute in Computational Social Science at Rutgers Jun 15-26, 2020
 DIMACS (Center for Discrete Mathematics and Theoretical Computer Science)
 Rutgers New Brunswick Libraries
 Department of Political Science, Rutgers University

Full Tuition Scholarship and Stipend Fall 2016 to Spring 2021
 Department of Political Science
 Stony Brook University

Introduction to Complexity (with certificate) Fall 2019
 Courses by Complexity Explorer
 Santa Fe Institute

Introduction to Agent-Based Modeling (with certificate) Summer 2019
 Courses by Complexity Explorer
 Santa Fe Institute

Excellent Achievement Award 2005
 for participation in the *Physics Contest* within the top 5 percent of all the students
 participated in the academic year, National Cheng Kung University, Taiwan

Distinguished Achievement Award 2005
 for participation in the *Calculus Contest* within the top 10 percent of all the students
 participated in the academic year, National Cheng Kung University, Taiwan

PRESENTATIONS “The Inheritance of Wealth and Allocation Strategy in Human Fertility Decline” at the
 European Human Behaviour and Evolution Association Conference, Montpellier, France
 Apr 19, 2024

“The Coevolution of Human Fertility and Wealth Stratification” at the Cultural Evolution
 Society Conference, Aarhus University, Aarhus, Denmark Sep 22, 2022

“Social Dilemmas in Politics” at the Department of Humanities and Social Sciences,
 National Tsing Hua University, Hsinchu, Taiwan Mar 29, 2022

“Does Media Bias Cause Political Polarization? An Agent-based Model of Biased Media,
 Motivated Reasoners, and Political Polarization” at the American Political Science
 Association Annual Meeting, San Francisco, CA Sep 10, 2020

“Partisanship, Polarization, and Inequality Over Time” at the Midwest Political Science
 Association Conference, Chicago, IL *Expected: Apr 19, 2020*
(conference canceled due to COVID-19 outbreak)

“Group Cooperation in a Policy Bargaining Game” at the Center for Behavioral Political
 Economy, Stony Brook University Feb 12, 2020

“An Agent-based Model of Elections with Endogenous Candidates, Voters, and Media”
 at the Midwest Political Science Association Conference, Chicago, IL Apr 6, 2019

“Distributional Preferences under Rank Reversal Aversion” at the Center for Behavioral
 Political Economy, Stony Brook University Mar 6, 2018

TEACHING Instructor Summer 2018 to May 2021

- World Politics Department of Political Science
 Stony Brook University

Teaching Assistant

- Neuroeconomics (with Prof. Chen-Ying Huang)
Department of Economics
National Taiwan University

Spring 2014

Courses Can Offer

- Undergraduate: World Politics, Statistics, Research Methods
- Graduate: Political Economy, Behavioral Economics, Cooperation, Game Theory, Computational Modeling, Data Analysis, Experimental Design, R for Statistics

SKILLS

Software

Python, R, Stata, oTree, NetLogo, Matlab, Mathematica, L^AT_EX, Qualtrics

Language

English (fluent), Mandarin (native), Taiwanese (intermediate)

PROFESSIONAL
ACTIVITIES

Affiliations

Theory in Cultural Evolution Lab, Max Planck Institute for Evolutionary Anthropology
Center for Behavioral Political Economy, Stony Brook University

Memberships

American Political Science Association, Midwest Political Science Association, Society
for Political Methodology, Cultural Evolution Society, European Human Behaviour
and Evolution Association

Service

Reviewer *Humanities and Social Sciences Communications*, Conference Session Chair
EHBEA 2024, Conference Moderator EHBEA 2022, Conference Discussant APSA
2020

REFERENCES

Available Upon Request.