

Yi-Ta Lu, Ph.D.

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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 | yitalu.tw@gmail.com 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 Lecturer Department of Political Science State University of New York at Stony Brook, NY, USA Full-Time Research Assistant Department of Economics National Taiwan University, Taiwan | Sep 2021 to Dec 2024 Jul 2018 to May 2021 Jun 2012 to Jul 2014 |
| EDUCATION | Ph.D. in Political Science State University of New York at Stony Brook, NY, USA M.A. in Economics State University of New York at Stony Brook, NY, USA M.S. in Physics National Chiao Tung University, Taiwan B.S. in Physics National Cheng Kung University, Taiwan | May 2021 Dec 2015 Jun 2011 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 (with a focus on Behavioral Political Economy), Collective Action, Cultural Evolution, Demographic Transition, Computational Modeling | |
| RESEARCH METHODS | Bayesian Statistics, Causal Inference, Time Series, Agent-Based Modeling, Game Theory, Lab Experiments, Survey Experiments | |
| 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. <i>Journal Of Exposure Science And Environmental Epidemiology</i> , 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. <i>PNAS Nexus</i> , 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.

WORKING PAPERS “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.

WORKS IN
PROGRESS

“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.

RESEARCH
EXPERIENCE

Graduate Research Assistant Aug 2016 to May 2018
Department of Political Science, Stony Brook University
With: Andrew Delton, John Barry Ryan, Oleg Smirnov, and Peter DeScioli

Visiting Student Jun 2015 to Aug 2015
Department of Psychology, The Ohio State University
With: Ian Krajbich

TEACHING
EXPERIENCE

Instructor Summer 2018 – May 2021
World Politics
Department of Political Science, Stony Brook University

Teaching Assistant Spring 2014
Neuroeconomics (with Chen-Ying Huang)
Department of Economics, National Taiwan University

TEACHING
COMPETENCIES

Substantive/Theoretical
World Politics, Behavioral Political Economy, Cooperation, Game Theory

Methods
Quantitative & Research Methods, Causal Inference, Bayesian Data Analysis

Computational
Computational Modeling, Programming (in R, Python, or Stan), Data Science

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| 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 <i>Social Simulation Workshop/Competition</i> | |
| | 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 | <i>Expected:</i> Jul 2020 |
| | Department of Sociology | |
| | University of Groningen, Netherlands | |
| | (<i>program postponed to Jul 2021 due to COVID-19 outbreak</i>) | |
| | 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 <i>Physics Contest</i> 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 <i>Calculus Contest</i> 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 |
| | “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 |
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| | <p>“Partisanship, Polarization, and Inequality Over Time” at the Midwest Political Science Association Conference, Chicago, IL <i>(conference canceled due to COVID-19 outbreak)</i> <i>Expected:</i> Apr 19, 2020</p> <p>“Group Cooperation in a Policy Bargaining Game” at the Center for Behavioral Political Economy, Stony Brook University Feb 12, 2020</p> <p>“An Agent-based Model of Elections with Endogenous Candidates, Voters, and Media” at the Midwest Political Science Association Conference, Chicago, IL Apr 6, 2019</p> <p>“Distributional Preferences under Rank Reversal Aversion” at the Center for Behavioral Political Economy, Stony Brook University Mar 6, 2018</p> |
| SKILLS | <p>Software Python, R, Stata, Stan, oTree, NetLogo, Matlab, Mathematica, L^AT_EX, Qualtrics</p> <p>Language English (fluent), Taiwanese Mandarin (native), German (beginner)</p> |
| PROFESSIONAL ACTIVITIES | <p>Affiliations Theory in Cultural Evolution Lab, Max Planck Institute for Evolutionary Anthropology Center for Behavioral Political Economy, Stony Brook University</p> <p>Memberships American Political Science Association, Midwest Political Science Association, Society for Political Methodology, Cultural Evolution Society, European Human Behaviour and Evolution Association</p> <p>Service Reviewer <i>Humanities and Social Sciences Communications</i>, Conference Session Chair EHBEA 2024, Conference Moderator EHBEA 2022, Conference Discussant APSA 2020</p> |
| REFERENCES | Available Upon Request. |