Stanford

Daniel Ho

William Benjamin Scott & Luna M. Scott Professor of Law, Professor of Political Science, Senior Fellow at the Stanford Institute for Economic Policy Research, at the Stanford Institute for HAI and Professor, by courtesy, of Computer Science

Stanford Law School

Bio

BIO

Daniel E. Ho is the William Benjamin Scott and Luna M. Scott Professor of Law, Professor of Political Science, Professor of Computer Science (by courtesy), Senior Fellow at Stanford's Institute for Human-Centered Artificial Intelligence, and Senior Fellow at the Stanford Institute for Economic Policy Research at Stanford University. He is a Faculty Fellow at the Center for Advanced Study in the Behavioral Sciences and is Director of the Regulation, Evaluation, and Governance Lab (RegLab). Ho serves on the National Artificial Intelligence Advisory Commission (NAIAC), advising the White House on artificial intelligence, as Senior Advisor on Responsible AI at the U.S. Department of Labor, and as a Public Member of the Administrative Conference of the United States (ACUS). He received his J.D. from Yale Law School and Ph.D. from Harvard University and clerked for Judge Stephen F. Williams on the U.S. Court of Appeals, District of Columbia Circuit.

ACADEMIC APPOINTMENTS

- Professor, Stanford Law School
- Professor, Political Science
- Senior Fellow, Stanford Institute for Economic Policy Research (SIEPR)
- Senior Fellow, Institute for Human-Centered Artificial Intelligence (HAI)
- Professor (By courtesy), Computer Science
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Director, Regulation, Evaluation, and Governance Lab, (2018- present)
- Associate Director, Stanford Institute for Human-Centered Artificial Intelligence, (2019- present)

PROGRAM AFFILIATIONS

- Public Policy
- Symbolic Systems Program

LINKS

- RegLab: https://reglab.stanford.edu/

Teaching

COURSES

2023-24

- Administrative Law: LAW 7001 (Win)

- Policy Practicum: Building A Sustainable, Transparent, and Humane Food System: LAW 809T (Spr)

- Regulation, Evaluation, and Governance Lab: Practicum: LAW 7102 (Win, Spr)

2022-23

- Administrative Law: LAW 7001 (Spr)

- Antidiscrimination Law and Algorithmic Bias: LAW 7073 (Aut)

- Food Law and Policy: LAW 7024 (Win)

- Regulation, Evaluation, and Governance Lab: Practicum: LAW 7102 (Aut, Win, Spr)

2021-22

- Regulation, Evaluation, and Governance Lab: Practicum: LAW 7102 (Aut, Win, Spr)

2020-21

- Law and Politics of Bureaucracy: LAW 7096 (Spr)

- Law and Politics of Bureaucracy: POLISCI 228C, POLISCI 428C (Spr)

- Policy Practicum: Creating a National Research Cloud: LAW 807Z (Win, Spr)

- Policy Practicum: Developing Best Practices for Clean Water Act Enforcement: LAW 807W (Aut, Win)

- Regulation, Evaluation, and Governance Lab: Practicum: LAW 7102 (Aut, Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Saskia Comess, Sandy Handan-Nader, Mark Krass

Postdoctoral Faculty Sponsor

Aviv Caspi, Lindsey Gailmard, Patrick Vossler

Master's Program Advisor

Andy Zhang

Doctoral (Program)

Alexandra Minsk

Publications

PUBLICATIONS

- **Mitigating allocative tradeoffs and harms in an environmental justice data tool** *NATURE MACHINE INTELLIGENCE*
  Huynh, B. Q., Chin, E. T., Koenecke, A., Ouyang, D., Ho, D. E., Kiang, M. V., Rehkopf, D. H.
  2024

- **Limitations of Reporting Requirements under California's Livestock Antimicrobial Restriction Law.** *Environmental health perspectives*
  Quaade, S., Casey, J. A., Nachman, K. E., Tartof, S. Y., Ho, D. E.
  2024; 132 (2): 25001

- **Leveraging genomic sequencing data to evaluate disease surveillance strategies.** *iScience*
  Anderson, B., Ouyang, D., D'Agostino, A., Bonin, B., Smith, E., Kraushaar, V., Rudman, S. L., Ho, D. E.
  2023; 26 (12): 108488

- **Implications of predicting race variables from medical images.** *Science (New York, N.Y.)*
  Zou, J., Gichoya, J. W., Ho, D. E., Obermeyer, Z.
  2023; 381 (6654): 149-150

- **Integrating social services with disease investigation: A randomized trial of COVID-19 high-touch contact tracing.** *PloS one*
  Lu, L. C., Ouyang, D., D'Agostino, A., Diaz, A., Rudman, S. L., Ho, D. E.
  2023; 18 (5): e0285752

- **Automated vs. manual case investigation and contact tracing for pandemic surveillance: Evidence from a stepped wedge cluster randomized trial.** *EClinicalMedicine*
  Raymond, C., Ouyang, D., D'Agostino, A., Rudman, S. L., Ho, D. E.
  2023; 55: 101726

- **Toward Operationalizing Pipeline-aware ML Fairness: A Research Agenda for Developing Practical Guidelines and Tools**
  Black, E., Naidu, R., Ghani, R., Rodolfa, K. T., Ho, D. E., Heidari, H., ACM
  ASSOC COMPUTING MACHINERY.2023

- **The Privacy-Bias Tradeoff: Data Minimization and Racial Disparity Assessments in US Government**
  Gupta, A., Wu, V. Y., Webley-Brown, H., King, J., Ho, D. E., ASSOC COMPUTING MACHINERY
  ASSOC COMPUTING MACHINERY.2023: 492-505

- **How Redundant are Redundant Encodings? Blindness in the Wild and Racial Disparity when Race is Unobserved**
  Cheng, L., Gallegos, I. O., Ouyang, D., Goldin, J., Ho, D. E., ASSOC COMPUTING MACHINERY
  ASSOC COMPUTING MACHINERY.2023: 667-686

- **The Bureaucratic Challenge to AI Governance: An Empirical Assessment of Implementation at US Federal Agencies**
  Lawrence, C., Cui, I., Ho, D. E., ACM
  ASSOC COMPUTING MACHINERY.2023: 606-652

- **Executive Control of Agency Adjudication: Capacity, Selection, and Precedential Rulemaking** *JOURNAL OF LAW ECONOMICS & ORGANIZATION*
  Hausman, D. K., Ho, D. E., Krass, M. S., McDonough, A.
  2022

- **Advances, challenges and opportunities in creating data for trustworthy AI** *NATURE MACHINE INTELLIGENCE*
  Liang, W., Tadesse, G., Ho, D., Li, F., Zaharia, M., Zhang, C., Zou, J.
  2022

- **Can transportation subsidies reduce failures to appear in criminal court? Evidence from a pilot randomized controlled trial** *ECONOMICS LETTERS*
  Brough, R., Freedman, M., Ho, D. E., Phillips, D. C.
  2022; 216

- **Science Translation During the COVID-19 Pandemic: An Academic-Public Health Partnership to Assess Capacity Limits in California.** *American journal of public health*
  Maldonado, P., Peng, A., Ouyang, D., Suckale, J., Ho, D. E.
  1800; 112 (2): 308-315

- **Beyond Ads: Sequential Decision-Making Algorithms in Law and Public Policy**
  Henderson, P., Chugg, B., Anderson, B., Ho, D. E., ACM
  ASSOC COMPUTING MACHINERY.2022: 87-100

- **Detecting Environmental Violations with Satellite Imagery in Near Real Time: Land Application under the Clean Water Act**
  Chugg, B., Rothbacher, N., Feng, A., Long, X., Ho, D. E., ACM
  ASSOC COMPUTING MACHINERY.2022: 3052-3062

- **Mapping Industrial Poultry Operations at Scale With Deep Learning and Aerial Imagery** *IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING*
  Robinson, C., Chugg, B., Anderson, B., Ferres, J., Ho, D. E.
  2022; 15: 7458-7471

- **Enhancing environmental enforcement with near real-time monitoring: Likelihood-based detection of structural expansion of intensive livestock farms** *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*
  Chugg, B., Anderson, B., Eicher, S., Lee, S., Ho, D. E.
  2021; 103

- **Disparate Limbo: How Administrative Law Erased Antidiscrimination** *YALE LAW JOURNAL*
  Ceballos, C., Engstrom, D., Ho, D. E.
  2021; 131 (2): 370-474

- **Disparate Limbo: How Administrative Law Erased Antidiscrimination** *YALE LAW JOURNAL*
  Ceballos, C., Engstrom, D., Ho, D. E.
  2021; 131 (2): 370-474

- **A language-matching model to improve equity and efficiency of COVID-19 contact tracing.** *Proceedings of the National Academy of Sciences of the United States of America*
  Lu, L., Anderson, B., Ha, R., D'Agostino, A., Rudman, S. L., Ouyang, D., Ho, D. E.
  2021; 118 (43)

- **Improving the Reliability of Food Safety Disclosure: Restaurant Grading in Seattle and King County, Washington** *JOURNAL OF ENVIRONMENTAL HEALTH*
  Ashwood, Z. C., Elias, B., Ho, D. E.
  2021; 84 (2): 30-37

- **Evaluation of Allocation Schemes of COVID-19 Testing Resources in a Community-Based Door-to-Door Testing Program** *JAMA HEALTH FORUM*
  Chugg, B., Lu, L., Ouyang, D., Anderson, B., Ha, R., D'Agostino, A., Sujeer, A., Rudman, S. L., Garcia, A., Ho, D. E.
  2021; 2 (8): e212260

- **How medical AI devices are evaluated: limitations and recommendations from an analysis of FDA approvals.** *Nature medicine*
  Wu, E., Wu, K., Daneshjou, R., Ouyang, D., Ho, D. E., Zou, J.
  2021

- **Mandatory Retirement and Age, Race, and Gender Diversity of University Faculties** *AMERICAN LAW AND ECONOMICS REVIEW*
  Ho, D. E., Mbonu, O., McDonough, A.
  2021; 23 (1): 100-136

- **Brevity, Speed, and Deference: An Account from the Williams Chambers** *YALE JOURNAL ON REGULATION*
  Hausman, D. K., Ho, D. E., O'Connell, A.
  2021; 38 (3): 745-751

- **How US law will evaluate artificial intelligence for covid-19.** *BMJ (Clinical research ed.)*
  Krass, M. n., Henderson, P. n., Mello, M. M., Studdert, D. M., Ho, D. E.
  2021; 372: n234

- **EVALUATING FACIAL RECOGNITION TECHNOLOGY: A PROTOCOL FOR PERFORMANCE ASSESSMENT IN NEW DOMAINS** *DENVER LAW REVIEW*
  Ho, D. E., Black, E., Agrawala, M., Li Fei-Fei
  2021; 98 (4): 753-773

- **The Effectiveness of a Neighbor-to-Neighbor Get-Out-the-Vote Program: Evidence from the 2017 Virginia State Elections** *JOURNAL OF EXPERIMENTAL POLITICAL SCIENCE*
  Handan-Nader, C., Ho, D. E., Morantz, A., Rutter, T. A.
  2021; 8 (2): 145-160

- **Algorithmic Accountability in the Administrative State** *YALE JOURNAL ON REGULATION*
  Engstrom, D., Ho, D. E.
  2020; 37 (3): 800–854

- **Improving Scientific Judgments in Law and Government: A Field Experiment of Patent Peer Review** *JOURNAL OF EMPIRICAL LEGAL STUDIES*
  Ho, D. E., Ouellette, L.
  2020; 17 (2): 190–223

- **Due Process and Mass Adjudication: Crisis and Reform** *STANFORD LAW REVIEW*
  Ames, D., Handan-Nader, C., Ho, D. E., Marcus, D.
  2020; 72 (1): 1–78

- **Feasible Policy Evaluation by Design: A Randomized Synthetic Stepped-Wedge Trial of Mandated Disclosure in King County.** *Evaluation review*

  Handan-Nader, C. n., Ho, D. E., Elias, B. n.

  2020: 193841X20930852

- **Menu labeling, calories, and nutrient density: Evidence from chain restaurants.** *PloS one*

  Ho, D. E., Mbonu, O. n., McDonough, A. n., Pottash, R. n.

  2020; 15 (5): e0232656

- **New Evidence on Information Disclosure through Restaurant Hygiene Grading** *AMERICAN ECONOMIC JOURNAL-ECONOMIC POLICY*

  Ho, D. E., Ashwood, Z. C., Handan-Nader, C.

  2019; 11 (4): 404–28

- **Quality Review of Mass Adjudication: A Randomized Natural Experiment at the Board of Veterans Appeals, 2003-16** *JOURNAL OF LAW ECONOMICS & ORGANIZATION*

  Ho, D. E., Handan-Nader, C., Ames, D., Marcus, D.

  2019; 35 (2): 239–88

- **Deep learning to map concentrated animal feeding operations** *NATURE SUSTAINABILITY*

  Handan-Nader, C., Ho, D. E.

  2019; 2 (4): 298–306

- **When Algorithms Import Private Bias into Public Enforcement: The Promise and Limitations of Statistical Debiasing Solutions**

  Altenburger, K. M., Ho, D. E.

  J C B MOHR.2019: 98–122

- **Is Yelp Actually Cleaning Up the Restaurant Industry? A Re-Analysis on the Relative Usefulness of Consumer Reviews**

  Altenburger, K. M., Ho, D. E., Assoc Comp Machinery

  ASSOC COMPUTING MACHINERY.2019: 2543–50

- **Do Checklists Make a Difference? A Natural Experiment from Food Safety Enforcement** *JOURNAL OF EMPIRICAL LEGAL STUDIES*

  Ho, D. E., Sherman, S., Wyman, P.

  2018; 15 (2): 242–77

- **Does Peer Review Work? An Experiment of Experimentalism** *STANFORD LAW REVIEW*

  Ho, D. E.

  2017; 69 (1): 1-119

- **Managing Street-Level Arbitrariness: The Evidence Base for Public Sector Quality Improvement** *ANNUAL REVIEW OF LAW AND SOCIAL SCIENCE, VOL 13*

  Ho, D. E., Sherman, S., Hagan, J.

  2017; 13: 251–72

- **TESTING THE MARKETPLACE OF IDEAS** *NEW YORK UNIVERSITY LAW REVIEW*

  Ho, D. E., Schauer, F.

  2015; 90 (4): 1160-1228

- **Randomizing ... What? A Field Experiment of Child Access Voting Laws** *JOURNAL OF INSTITUTIONAL AND THEORETICAL ECONOMICS-ZEITSCHRIFT FUR DIE GESAMTE STAATSWISSENSCHAFT*

  Ho, D. E.

  2015; 171 (1): 150-170

- **Does Class Size Affect the Gender Gap? A Natural Experiment in Law** *JOURNAL OF LEGAL STUDIES*

  Ho, D. E., Kelman, M. G.

  2014; 43 (2): 291-321

- **Foreword: Conference Bias** *JOURNAL OF EMPIRICAL LEGAL STUDIES*

  Ho, D. E.

  2013; 10 (4): 603–11

- **INTRODUCTION: THE EMPIRICAL REVOLUTION IN LAW** *STANFORD LAW REVIEW*

Ho, D. E., Kramer, L.

2013; 65 (6): 1195–1202

- **Fudging the Nudge: Information Disclosure and Restaurant Grading** *YALE LAW JOURNAL*

  Ho, D. E.

  2012; 122 (3): 574-688

- **MatchIt: Nonparametric Preprocessing for Parametric Causal Inference** *JOURNAL OF STATISTICAL SOFTWARE*

  Ho, D. E., Imai, K., King, G., Stuart, E. A.

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- **Credible Causal Inference for Empirical Legal Studies** *ANNUAL REVIEW OF LAW AND SOCIAL SCIENCE, VOL 7*

  Ho, D. E., Rubin, D. B.

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- **How Not to Lie with Judicial Votes: Misconceptions, Measurement, and Models** *CALIFORNIA LAW REVIEW*

  Ho, D. E., Quinn, K. M.

  2010; 98 (3): 813-876

- **Reconciling Punitive Damages Evidence** *JOURNAL OF INSTITUTIONAL AND THEORETICAL ECONOMICS-ZEITSCHRIFT FUR DIE GESAMTE STAATSWISSENSCHAFT*

  Ho, D. E.

  2010; 166 (1): 27-32

- **DID LIBERAL JUSTICES INVENT THE STANDING DOCTRINE? AN EMPIRICAL STUDY OF THE EVOLUTION OF STANDING, 1921-2006** *STANFORD LAW REVIEW*

  Ho, D. E., Ross, E. L.

  2010; 62 (3): 591-667

- **VIEWPOINT DIVERSITY AND MEDIA CONSOLIDATION: AN EMPIRICAL STUDY** *STANFORD LAW REVIEW*

  Ho, D. E., Quinn, K. M.

  2009; 61 (4): 781-868

- **Improving the Presentation and Interpretation of Online Ratings Data with Model-Based Figures** *AMERICAN STATISTICIAN*

  Ho, D. E., Quinn, K. M.

  2008; 62 (4): 279-288

- **Evaluating Course Evaluations: An Empirical Analysis of a Quasi-Experiment at the Stanford Law School, 2000-2007** *JOURNAL OF LEGAL EDUCATION*

  Ho, D. E., Shapiro, T. H.

  2008; 58 (3): 388-412

- **Estimating causal effects of ballot order from a randomized natural experiment - The California alphabet lottery, 1978-2002** *PUBLIC OPINION QUARTERLY*

  Ho, D. E., Imai, K.

  2008; 72 (2): 216-240

- **Measuring Explicit Political Positions of Media** *QUARTERLY JOURNAL OF POLITICAL SCIENCE*

  Ho, D. E., Quinn, K. M.

  2008; 3 (4): 353-377

- **Matching as nonparametric preprocessing for reducing model dependence in parametric causal inference** *POLITICAL ANALYSIS*

  Ho, D. E., Imai, K., King, G., Stuart, E. A.

  2007; 15 (3): 199-236

- **Randomization inference with natural experiments: An analysis of ballot effects in the 2003 California recall election** *63rd Annual Meeting of the Midwest-Political-Science-Association*

  Ho, D. E., Imai, K.

  AMER STATISTICAL ASSOC.2006: 888–900