

# yusuke narita

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## contact

Room 38  
37 Hillhouse Avenue  
New Haven  
CT 06511  
USA

+1(857)999-1570

yusuke.narita@yale.edu

yusuke-narita.com

## research interests

**Substantive Interests:** Education, Health, and Labor Policies

Data-driven Algorithm/Mechanism Design

**Methodological Tools:** Causal Inference, History, Machine Learning, Structural Modeling, Theory

## papers (economics)

Algorithm is Experiment: Machine Learning, Market Design, and Policy Eligibility Rules  
with Kohei Yata

Best Paper Prize at ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO '21)

Curse of Democracy: Evidence from the 21st Century  
with Ayumi Sudo

Meritocracy & Its Discontents: Long-run Effects of Repeated School Admission Reforms  
with Chiaki Moriguchi and Mari Tanaka

Hearing the Voice of the Future

Match or Mismatch? Learning and Inertia in School Choice

Breaking Ties: Regression Discontinuity Design Meets Market Design  
with Atila Abdulkadiroglu, Josh Angrist, and Parag Pathak  
***Econometrica***, 2021

Incorporating Ethics & Welfare into Randomized Experiments  
***Proceedings of the National Academy of Sciences***, 2020

A Theory of Quasi-Experimental Evaluation of School Quality  
***Management Science***, 2020

Research Design Meets Market Design: Using Centralized Assignment for Impact Evaluation  
with Atila Abdulkadiroglu, Josh Angrist, and Parag Pathak  
***Econometrica***, 2017

Regression Discontinuity in Serial Dictatorship: Achievement Effects at Chicago's Exam Schools  
with Atila Abdulkadiroglu, Josh Angrist, Parag Pathak, and Roman Zarate  
***American Economic Review*** Papers and Proceedings, 2017

Improving Schools through School Choice: A Market Design Approach  
with John Hatfield and Fuhito Kojima  
***Journal of Economic Theory***, 2016

Guilt Aversion Revisited: An Experimental Test of a New Model  
with Toshiji Kawagoe  
***Journal of Economic Behavior & Organization***, 2014

Comment on "Efficient Resource Allocation on the Basis of Priorities"  
***Econometrica*** Online Article Comments, 2009

## **papers (machine learning, AI, and applied math)**

Open Bandit Dataset and Pipeline: Towards Realistic and Reproducible Off-Policy Evaluation  
with Yuta Saito, Shunsuke Aihara, & Megumi Matsutani

***NeurIPS (Neural Information Processing Systems)***, major refereed publication venue in artificial intelligence & machine learning, 2021

[Link to Accompanying \*Open Bandit Pipeline\* \(Data, Software, and Documentation\)](#)

Evaluating the Robustness of Off-Policy Evaluation

with Yuta Saito, Takuma Udagawa, Haruka Kiyohara, Kazuki Mogi, and Kei Tateno

***RecSys (ACM Conference on Recommender Systems)***, major refereed publication venue in recommender systems, 2021

Debiased Off-Policy Evaluation for Recommendation Systems

with Shota Yasui and Kohei Yata

***RecSys (ACM Conference on Recommender Systems)***, 2021

Doubly Robust Off-Policy Evaluation for Ranking Policies under the Cascade Behavior Model

with H. Kiyohara, Y. Saito, T. Matsuhiro, N. Shimizu, & Y. Yamamoto

***WSDM (ACM Conference on Web Search and Data Mining)***, major refereed publication venue on data mining, 2021

Efficient Adaptive Experimental Design for Average Treatment Effect Estimation

with Masahiro Kato, Takuya Ishihara, and Junya Honda

***NeurIPS (Neural Information Processing Systems)*** Causal Discovery & Causality-Inspired Machine Learning Workshop, 2020

Efficient Counterfactual Learning from Bandit Feedback

with Shota Yasui and Kohei Yata

**AAAI (Association for the Advancement of Artificial Intelligence)**, major refereed publication venue in artificial intelligence & machine learning, 2019

Many-to-many Matching with Max-min Preferences

with John Hatfield and Fuhito Kojima

**Discrete Applied Mathematics**, 2014

## selected work in progress

Toward an Ethical Experiment

Measuring Selective School Effectiveness Away from the Cutoff: Evidence from NYC

with Atila Abdulkadiroglu, Josh Angrist, and Parag Pathak

Data-driven Demand Modeling

with Kota Saito

## courses

Probability & Statistics (Yale, undergraduate, Econ 135)

Data Analysis & Econometrics (Yale, undergraduate, Econ 132)

Labor Economics (Yale, graduate, Econ 631, with Joe Altonji)

Empirical Economics & Policy Analysis (Yale, graduate, Econ 556, with Tim Armstrong, Yuichi Kitamura, & Ed Vytlačil)

## selected awards

**MIT Tech Review's Innovators under 35 Japan**

**The Prime Minister's Award for Open Innovation by the Japanese Government**

**KDDI Foundation Contribution Award**

**Best Undergraduate Thesis Ouchi Award at the University of Tokyo**

## affiliation

2017- **Yale University, Department of Economics & Cowles Foundation**  
Assistant Professor

2021- **MIT, Blueprint Labs**  
Affiliate Faculty

2020- **University of Tokyo, Market Design Center**  
Affiliate

- 2019-20 **Stanford University**  
Visiting Assistant Professor
- 2018- **The Council on East Asian Studies at Yale University**  
Affiliate Faculty
- 2018- **Y-RISE (Yale Research Initiative on Innovation and Scale)  
Network on Evidence Aggregation and External Validity**  
Affiliate Faculty
- 2018- **Columbia University, Market Design Initiative**  
Advisory Member
- 2018- **Research Institute of Economy, Trade and Industry  
(RIETI, Policy Think Tank Affiliated with the Japanese Government)**  
Visiting Fellow
- 2016- **MIT, School Effectiveness and Inequality Initiative (SEII)**  
Affiliate Faculty
- 2011- **University of Chicago, Human Capital & Economic Opportunity Global Working Group**  
Affiliate Faculty

## past affiliation

- 2016-2017 **Yale University, Cowles Foundation**  
Postdoctoral Fellow

## education

- 2011–2016 **Ph.D. at MIT**  
*Thesis: Essays on Education Market Design*  
Advisors: Parag Pathak, Josh Angrist, Daron Acemoglu, Nikhil Agarwal
- 2011 **BA & MA at University of Tokyo**  
Advisors: Masahiko Aoki, Michihiro Kandori, Fuhito Kojima, Hitoshi Matsushima

## professional services

**Program and Policy Committees:** AI Track at EC'19 (Economics & Computation) Conference, EC'20 Conference, EC'21 Conference, EAAMO'21 (ACM Conference on Equity and Access in Algorithms, Mechanisms, & Optimization), NeurIPS 2021 Workshop on Machine Learning Meets Econometrics

French National Family Allowance Office, Scientific Council for the Impacts of Daycare

### Referees:

Economics: *American Economic Review*, *American Economic Review: Insights*, *Econometrica*, *Review of Economic Studies*, *Quarterly Journal of Economics*, *Handbook of Industrial Organization*, *American Economic Journal: Applied Economics*, *American Economic Journal: Microeconomics*, *Journal of Econometrics*, *Journal of Economic Theory*, *Theoretical Economics*, *Journal of Public Economics*, *Journal of Human Resources*, *Journal of European Economic Association*, *International Economic Review*, *Journal of Applied Econometrics*, *Journal of Business & Economic Statistics*, *Games and Economic Behavior*, *Journal of Economic Behavior & Organization*, *Economic Theory*, *Economics Letters*, National Science Foundation,

Israel Science Foundation

Other Fields: *Journal of the American Statistical Association*, *Management Science*, *AISTATS (International Conference on Artificial Intelligence & Statistics)*

**Invited/Refereed Presentations** (including plans):

2021: UC Berkeley (Econometrics Seminar), EAAMO'21 (ACM Conference on Equity and Access in Algorithms, Mechanisms, & Optimization), Arizona State, American Economic Association, Econometric Society North American Meeting, Penn State Education Seminar, Caltech, Society for Labor Economists, Econometric Society Chinese Meeting, Econometric Society African Meeting, JSAI, Econometric Society Asian Meeting

2020: Caltech (Empirical Micro Seminar), NBER Market Design Meeting, Center for Monetary and Financial Studies, Invited Talk at the European Economic Association Annual Congress, Econometric Society World Congress, ICML (International Conference on Machine Learning) Real World Experiment Design and Active Learning Workshop, Stanford University (Market Design Seminar), Stanford University (Faculty Brown Bag Seminar), Washington University/St Louis Fed (Labor/Public Seminar), Caltech (Social Sciences Seminar), Annual Empirical Microeconomics Conference at Arizona State University, Research Institute of Economy, Trade & Industry (RIETI), Columbia (Japan Economy Seminar), Econometric Society, American Economic Association

2019: Stanford (Market Design Seminar), Facebook, UC Berkeley (Labor Seminar), Columbia (Biostatistics Seminar), UC Irvine (Joint Labor/Public/Econometrics Seminar), Rice (Empirical Micro Seminar), University of Tennessee (Labor/Public Seminar), Stanford (Theory Seminar), University of Tokyo, NBER Japan Project Meeting, NBER Summer Institute Labor Studies Meeting, Kyoto University Empirical Micro Workshop, Nihon University, Hitotsubashi (IO/Labor Seminar), Yahoo!, Japanese Economic Association, "Machine Learning for Economics" GSE Summer Forum in Barcelona, "Structural Microeconometrics" GSE Summer Forum in Barcelona, Society of Labor Economists (SOLE) Annual Meeting, Columbia (Joint Econometrics/Theory Seminar), Pacific Conference for Development Economics at USC, Penn State (Econometrics Seminar), University of Warwick (Empirical Micro Seminar), London School of Economics (Empirical Micro Seminar), NYU (Joint Development & Econometrics Seminar), Research Institute of Economy, Trade & Industry (RIETI), AAAI-19 Conference on Artificial Intelligence, Yale (Quantitative Method Seminar)

2018: Y-RISE Evidence Action & External Validity Meeting, Conference on Evidence-Based Policy Making by RIETI, Yale (Econometrics Seminar), Education Conference at the FRB of Minneapolis, NBER Market Design Meeting, Advances with Field Experiments 2018 Conference, Praekelt Foundation, UPenn (Empirical Micro Seminar), Econometric Society, Economic Theory Conference IV at the University of Chicago, Stanford Institute for Theoretical Economics (SITE) Session 5: Psychology & Economics, NBER Summer Institute Development Meeting, ICML / IJCAI / AAMAS Workshop "Machine Learning for Causal Inference, Counterfactual Prediction, & Autonomous Action (CausalML)," Stanford Institute for Theoretical Economics (SITE) Session 2: Empirical Implementation of Theoretical Models of Strategic Interaction & Dynamic Behavior, University of Chicago (Econometrics Seminar), University of Tokyo (Microeconomics Seminar), University of Wisconsin Madison (Labor/Public Seminar), Society of Labor Economists (SOLE) Annual Meeting, Market Design Conference at Columbia, Junior IO Workshop at the University of Tokyo, Microsoft Research, RIKEN Center for Advanced Intelligence Project, Hitotsubashi (IO/Labor Seminar), American Economic Association

2017: NBER Market Design Meeting, Brown, RIKEN Center for Advanced Intelligence Project, Yokohama National University (Microeconomics Seminar), Hitotsubashi Summer Institute, European Summer Symposium in Economic Theory, University of Illinois at Urbana-Champaign Microeconomics Seminar, Conference "Econometrics Meets Theory" at NYU, Hitotsubashi (IO/Labor Seminar), Econometric Society

2016 or earlier: International Conference on Experimental Methods in Economics, Conference on Market Design & Micro Theory, Columbia University (Market Design Seminar), 11th Matching in Practice Workshop, NYU, UCLA, Yale, Rice, University of Tokyo, Osaka University, Kyoto University, NSF/CEME Decentralization Conference 2013 at Boston University, "Matching Problems: Economics Meets Mathematics" at the University of Chicago, NSF/NBER Mathematical Economics Conference at the University of Iowa