

## Workshop on Mechanism Design for Social Good '18 Program

| Time        | Event  | Authors  |
|-------------|--|--|
| 9:00-9:05   | Opening Remarks  | <b>Rediet Abebe</b> and <b>Kira Goldner</b>  |
|             | SESSION 1: ECONOMIC INEQUALITY   |  |
| 9:05-9:35   | <b>Economic Inequality Keynote</b>   | <b>Kendra Bischoff</b>   |
| 9:35-9:47   | Fairness in college admission exams: From test score gaps to earnings inequality   | <b>Evan Riehl</b>  |
| 9:48-10:00  | Access to opportunity in an era of extreme inequality                              | <b>Robert Manduca</b>  |
| 10:00-10:30 | <b>Research Discussion on Economic Inequality</b>                                  | <b>Kendra Bischoff, Nicole Immorlica, Robert Manduca, and Evan Riehl</b>   |
| 10:30-11:00 | Break  |  |
|             | SESSION 2: BIAS AND DISCRIMINATION   |  |
| 11:00-11:30 | <b>Bias and Discrimination Keynote</b>   | <b>Ifeoma Ajunwa</b>   |
| 11:30-11:42 | Preventing Fairness Gerrymandering: Auditing and Learning for Subgroup Fairness    | <b>Seth Neel</b> , Zhiwei Steven Wu, Aaron Roth, and Michael Kearns  |
| 11:43-11:55 | Algorithmic Glass Ceiling in Social Networks                                       | <b>Ana-Andreea Stoica</b> , Christopher Riederer, and Augustin Chaintreau  |
| 11:55-12:30 | <b>Research Discussion on Bias and Discrimination</b>                              | <b>Ifeoma Ajunwa, Solon Barocas, Jamie Morgenstern, and Brittny Saunders</b>   |
| 12:30-2:00  | Lunch and <b>Poster Session</b>  |  |
|             | SESSION 3: ONLINE LABOR MARKETS AND MATCHING MECHANISMS                            |  |
| 2:00-2:30   | <b>Online Labor Markets Keynote</b>  | <b>Ramesh Johari</b>   |
| 2:30-2:42   | Kudu: Designing and Evolving an Electronic Agricultural Marketplace in Uganda      | <b>Neil Newman</b> , Lauren Falcao-Bergquist, Nicole Immorlica, Kevin Leyton-Brown, Brendan Lucier, Craig McIntosh, John Quinn, and Richard Ssekibuule |
| 2:43-2:55   | Matching for the Israeli "Mechinot" Gap Year: Handling Rich Diversity Requirements | <b>Yannai A. Gonczarowski</b> , Lior Kovalio, Noam Nisan, and Assaf Romm   |
| 2:55-3:30   | <b>Research Discussion on Online Labor Markets</b>                                 | <b>Itai Ashlagi, Yujie (Julie) Chen, Ramesh Johari, and David Robinson</b>   |
| 3:30-4:00   | Break  |  |

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**SESSION 4: HOUSING**

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| 4:00-4:12 | Targeting In-Kind Transfers Through Market Design: A Revealed Preference Analysis of Public Housing Allocation | <b>Daniel Waldinger</b>                             |
| 4:13-4:25 | The Public-Housing Allocation Problem  | <b>Neil Thakral</b>                                 |
| 4:28-4:40 | Allocating Interventions Based on Counterfactual Predictions: A Case Study on Homelessness Services            | <b>Amanda Kube</b> , Sanmay Das, and Patrick Fowler |

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**SESSION 5: NEW DIRECTIONS IN MECHANISM DESIGN**

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|-----------|---|---|
| 4:40-4:52 | Bike Angels: An Analysis of Citi Bike's Incentive Program                                   | Hangil Chung, <b>Daniel Freund</b> , and David Shmoys |
| 4:53-5:05 | Disciplinary Policy and Deviant Behavior in Schools: A Dynamic Discrete Choice Model        | <b>David McMillon</b>                                 |
| 5:05-5:17 | Pay-for-Selection? Systematic Healthcare Market Inefficiency in Capitation Payment Programs | <b>Zhaowei She</b> and Turgay Ayer                    |
| 5:18-5:30 | Exploiting Uncertainty to Create Buyer-Optimal Outcomes in Renewable Energy Markets         | Pan Li, <b>Shreyas Sekar</b> , and Baosen Zhang       |

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## Organizing Committee

### Workshop Chairs

- Rediet Abebe, Cornell University
- Kira Goldner, University of Washington

### Program Committee

- Hamsa Sridhar Bastani, IBM Research and University of Pennsylvania
- Mark Braverman, Princeton University
- Shuchi Chawla, University of Wisconsin-Madison
- Sanmay Das, Washington University in St. Louis
- Nikhil Devanur, Microsoft Research Redmond
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- Brian McInnis, Cornell University
- Suresh Naidu, Columbia University
- Manish Raghavan, Cornell University
- Eric Sodomka, Facebook
- Sam Taggart, Oberlin College
- Daniel Waldinger, MIT
- Matt Weinberg, Princeton University

## Poster Session

- “A Hybrid Technique for Partner Selection in Virtual Enterprises” by **George Musumba**
- “A Proposal for a Pollution Fee and Dividend Policy in New Jersey” by **Jonathan Shi**
- “Access to opportunity in an era of extreme inequality” by **Robert Manduca**
- “Adapting a Kidney Exchange Algorithm to Align with Human Values” by Rachel Freedman, Jana Schaich Borg, Walter Sinnott-Armstrong, John P. Dickerson, and **Vincent Conitzer**
- “Algorithmic Glass Ceiling in Social Networks” by **Ana-Andreea Stoica**, Christopher Riederer, and Augustin Chaintreau
- “Allocating Interventions Based on Counterfactual Predictions: A Case Study on Homelessness Services” by **Amanda Kube**, Sanmay Das, and Patrick Fowler
- “Decision Support for Policymaking: Causal Inference Algorithm and Case Study” by **Bhanukiran Vinzamuri**, Aleksandra Mojsilovic, and Kush R Varshney
- “Disaster Lending: The Distributional Consequences of Government Lending Programs” by Umit Gurun, Taylor Begley, Amiyatosh Purnanandam, and **Daniel Weagley**
- “Disciplinary Policy and Deviant Behavior in Schools: A Dynamic Discrete Choice Model” by **David McMillon**
- “Exploiting Uncertainty to Create Buyer-Optimal Outcomes in Renewable Energy Markets” by Pan Li, **Shreyas Sekar**, and Baosen Zhang
- “Fairness in college admission exams: From test score gaps to earnings inequality” by **Evan Riehl**
- “How to foster innovation: A data-driven approach to measuring economic competitiveness” by **Caitlin Kuhlman**, Karthikeyan Natesan Ramamurthy, Prasanna Sattigeri, Aurelie Lozano, Lei Cao, Chandra Reddy, Aleksandra Mojsilovic, and Kush Varshney
- “Kudu: Designing and Evolving an Electronic Agricultural Marketplace in Uganda” by **Neil Newman**, Lauren Falcao-Bergquist, Nicole Immorlica, Kevin Leyton-Brown, Brendan Lucier, Craig McIntosh, John Quinn, and Richard Ssekibuule
- “On the Dynamics of Inequality in Selfish Crowds” by Arthi Ramachandran, Natania Wolansky, and **Augustin Chaintreau**
- “Optimal taxation and endogenous growth” by **Ravi Jagadeesan**
- “Pay-for-Selection? Systematic Healthcare Market Inefficiency in Capitation Payment Programs” by **Zhaowei She** and Turgay Ayer
- “Preventing Fairness Gerrymandering: Auditing and Learning for Subgroup Fairness” by **Seth Neel**, Zhiwei Steven Wu, Aaron Roth, and Michael Kearns
- “The Reassignment Problem” by Lenore Cowen, Tara Kola, and **Eli Rosmarin**
- “Towards Minimization of Food insecurity in Developing Nations: Block-Chain and Artificial Intelligence Opportunities in small-scale farming” by Benjamin Otieno and **George Musumba**

## Speakers

### Invited Speakers and Discussants

- Ifeoma Ajunwa, Cornell University, Industrial and Labor Relations School
- Itai Ashlagi, Stanford University, Management Science and Engineering
- Solon Barocas, Cornell University, Department of Information Science
- Kendra Bischoff, Cornell University, Department of Sociology
- Yujie (Julie) Chen, School of Media, Communication, and Sociology, University of Leicester
- Nicole Immorlica, Microsoft Research
- Ramesh Johari, Stanford University, Management Science and Engineering
- Robert Manduca, Harvard University, Sociology and Social Policy
- Jamie Morgenstern, Georgia Institute of Technology
- Evan Riehl, Cornell University, Economics
- David Robinson, Managing Director, Upturn
- Brittany Saunders, NYC Commission on Human Rights

### Contributed Speakers

- Augustin Chaintreau, Columbia University
- Vincent Conitzer, Duke University
- Daniel Freund, Cornell University
- Yannai A. Gonczarowski, The Hebrew University of Jerusalem and Microsoft Research
- Ravi Jagadeesan, Harvard University
- Amanda Kube, Washington University in St. Louis
- Caitlin Kuhlman, Worcester Polytechnic Institute
- Robert Manduca, Harvard University
- David McMillon, University of Chicago
- George Musumba, Dedan Kimathi University of Technology
- Seth Neel, University of Pennsylvania
- Neil Newman, University of British Columbia
- Evan Riehl, Cornell University
- Eli Rosmarin, Tufts University
- Shreyas Sekar, University of Washington
- Zhaowei She, Georgia Institute of Technology
- Jonathan Shi, Cornell University
- Ana-Andreea Stoica, Columbia University
- Neil Thakral, Harvard University
- Bhanukiran Vinzamuri, IBM Research
- Daniel Waldinger, MIT
- Daniel Weagley, Georgia Institute of Technology

## Sponsors

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