



ACM Conference on Fairness, Accountability, and Transparency (FAT*)

Atlanta, Georgia Jan 29 – 31, 2019



Association for
Computing Machinery



January 29-31, 2019

Welcome from General Chairs

Welcome to ACM FAT* 2019 in Atlanta! While FAT* is only in its second year, it has quickly gained attention and regard as the natural home for the highest quality research on fairness, accountability, and transparency. We are particularly delighted to host this event in Atlanta, a city with a rich history of civil rights progress and social justice reform, a technological powerhouse, and the home of numerous top-tier colleges and universities.

The Program Chairs, Alexandra Chouldechova and Fernando Diaz, have an excellent technical program lined up for you. We thank them and their extensive Program Committee for doing the heavy lifting on this front. We hope that you enjoy the talks and have many stimulating discussions during your three days at the conference.

Given the substance of our work and the commitments of our community, we've worked hard to develop new ways to make this conference inclusive. Thanks to the generosity of our sponsors and many of our attendees, we've been able to offer scholarships to those with limited means, provide subsidized childcare, and livestream the conference for those unable to travel. Still, there is so much more that we can and must do to increase the inclusiveness of this conference. We are indebted to the many members of our community who have pushed us to do more. We also hope that all of you will take the importance of inclusiveness seriously and find innovative ways to embrace people you don't know and expand the circle of FAT* as wide as you can within your own world.

Many people helped make this conference a success. We would like to thank the FAT* Steering Committee for its indispensable guidance in making critical decisions. Their collective knowledge provides an endless source of wisdom on every aspect of conference organizing. Our many thanks to our numerous external supporters. Their commitments to this event and the FAT* conference series are appreciated as they help keep our student registration fees low and allow many students to attend the conference. The ACM was very helpful in every part of the planning process. Last but far from least, we would like to give our infinite gratitude to Melanie Penagos, for guiding us all to do our jobs, communicate with each other effectively, and ensure the entire conference organizational process went smoothly.

Thank you all for attending ACM FAT* 2019. Enjoy the conference, the hotel, the food, and the (hopefully relatively) warm weather in the fantastic city of Atlanta!

danah boyd and Jamie Morgenstern, General co-Chairs

Two handwritten signatures in black ink. The first signature on the left is "danah" in a cursive, lowercase style. The second signature on the right is "Jamie Morgenstern" in a more formal, uppercase cursive style.

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Technical Program

Tuesday, January 29

The registration and information desk will be open from 8:00am - 6:00pm.

9:00-12:00PM	Doctoral Consortium Room: Georgia 6
12:00-1:00PM	Lunch (Doctoral Consortium participants only)
1:00-2:30PM	Tutorials 1 Room: Georgia Hall 2, 3 Session Chair: Emily Denton Translation Tutorial: A History of Quantitative Fairness in Testing <i>Ben Hutchinson, Margaret Mitchell, Shira Mitchell</i> Room: Georgia Hall 4, 5 Session Chair: Joshua Kroll Implications Tutorial: Building Community Governance of Risk Assessment <i>Hannah Sassaman, Reuben Jones, David Robinson</i> Room: Georgia Hall 7, 8 Session Chair: Ben Fish Hands-on Tutorial: pip install fairness: a fairness-aware classification toolkit <i>Sorelle Friedler, Carlos Scheidegger, Suresh Venkatasubramanian</i> Room: Georgia Hall 9 Session Chair: Michael Ekstrand Translation Tutorial: Values, Reflection and Engagement in Automated Decision-Making <i>Roel Dobbe, Morgan Ames</i>
2:30-3:00PM	Coffee Break
10:50-11:20AM	Tutorials 2 Room: Georgia Hall 2, 3 Session Chair: Bo Cowgill (3:00PM-3:45PM) Invited Tutorial: A New Era of Hate <i>Keegan Hanks, Swathi Shanmugasundaram Southern Poverty Law Center (SPLC)</i>

	<p>Room: Georgia Hall 2, 3 Session Chair: Bo Cowgill (3:45PM-4:30PM) Implications Tutorial: Parole denied: One Man's Fight Against a COMPAS Risk Assessment <i>Cynthia Conti-Cook, Glenn Rodriguez</i></p> <p>Room: Georgia Hall 4, 5 Session Chair: Luke Stark (3:00PM-3:45PM) Translation Tutorial: Toward a Theory of Race for Fairness in Machine Learning <i>Emanuel Moss</i></p> <p>Room: Georgia Hall 4, 5 (3:45PM-4:30PM) Session Chair: Luke Stark Translation Tutorial: Engineering for Fairness: How a Firm Conceptual Distinction between Unfairness and Bias Makes it Easier to Address Un/Fairness <i>Jacob Metcalf</i></p> <p>Room: Georgia Hall 7, 8 Session Chair: Aylin Caliskan Hands-on Tutorial: AI Fairness 360 (part 1) <i>Rachel K. E. Bellamy, Kuntal Dey, Michael Hind, Samuel Hoffman, Stephanie Houde, Kalapriya Kannan, Pranay Lohia, Jacquelyn Martino, Sameep Mehta, Aleksandra Mojsilović, Seema Nagar, Karthikeyan Natesan Ramamurthy, John T. Richards, Diptikalyan Saha, Prasanna Sattigeri, Moninder Singh, Kush Varshney, Dakuo Wang, Yunfeng Zhang</i></p> <p>Room: Georgia Hall 9 Session Chair: Tolga Bolukbasi Hands-on Tutorial: Measuring Unintended Bias in Text Classification Models with Real Data <i>Daniel Borkan, Lucas Dixon, Jeffrey Sorensen, Nithum Thain, Lucy Vasserman</i></p>
<p>4:30-5:00PM</p>	<p>Coffee Break</p>
<p>5:00-6:30PM</p>	<p>Tutorials 3</p> <p>Room: Georgia Hall 2, 3 Session Chair: Swati Gupta Translation Tutorial: Challenges of incorporating algorithmic fairness into industry practice <i>Henriette Cramer, Kenneth Holstein, Jennifer Wortman Vaughan, Hal Daumé III, Miroslav Dudik, Hanna Wallach, Sravana Reddy, Jean Garcia-Gathright</i></p>

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	<p>Room: Georgia Hall 4, 5 Session Chair: Joshua Kroll Implications Tutorial: Reasoning About (Subtle) Biases in Data to Improve the Reliability of Decision Support Tools <i>Suchi Saria, Adarsh Subbaswamy</i></p> <p>Room: Georgia Hall 7, 8 Session Chair: Aylin Caliskan Hands-on Tutorial: AI Fairness 360(part 2) <i>Rachel K. E. Bellamy, Kuntal Dey, Michael Hind, Samuel Hoffman, Stephanie Houde, Kalapriya Kannan, Pranay Lohia, Jacquelyn Martino, Sameep Mehta, Aleksandra Mojsilović, Seema Nagar, Karthikeyan Natesan Ramamurthy, John T. Richards, Diptikalyan Saha, Prasanna Sattigeri, Moninder Singh, Kush Varshney, Dakuo Wang, Yunfeng Zhang</i></p> <p>Room: Georgia Hall 9 Session Chair: Bo Cowgill (5:00PM-5:45PM) Translation Tutorial: What technologists need to know about AI for international development <i>Craig Jolley, Aubra Anthony</i></p>
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Wednesday, January 30

Unless otherwise noted, all General Session events will take place in the Capitol Ballroom.

The registration and information desk will be open from 7:00am - 6:00pm.

8:00-8:45AM	<p>Continental Breakfast Room: Capitol Prefunction</p>
8:45–9:00AM	<p>Opening Remarks</p>
9:00–10:00AM	<p>Keynote 1: Jon Kleinberg (Cornell University) Presentation: Fairness, Rankings, and Behavioral Biases Discussant: Jennifer Wortman Vaughan</p>
10:00-10:50AM	<p>Session 1: Framing and Abstraction Session Chair: Hanna Wallach</p> <p>Problem Formulation and Fairness <i>Samir Passi, Solon Barocas</i></p> <p>50 Years of Test (Un)fairness: Lessons for Machine Learning <i>Ben Hutchinson, Margaret Mitchell</i></p> <p>Fairness and Abstraction in Sociotechnical Systems <i>Andrew D. Selbst, danah boyd, Sorelle A. Friedler, Suresh Venkatasubramanian, Janet Vertesi</i></p>

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10:50–11:20AM	Break
11:20–12:10PM	Session 2: Systems and Measurement Session Chair: Suresh Venkatasubramanian Who's the Guinea Pig? Investigating Online A/B/n Tests in-the-Wild <i>Shan Jiang, John Martin, Christo Wilson</i> Beyond Open vs. Closed: Balancing Individual Privacy and Public Accountability in Data Sharing <i>Meg Young, Luke Rodriguez, Emily Keller, Feiyang Sun, Boyang Sa, Jan Whittington, Bill Howe</i> Fairness-Aware Programming <i>Aws Albarghouthi, Samuel Vinitzky</i> Model Cards for Reporting Model Performance <i>Margaret Mitchell, Simone Wu, Andrew Zaldivar, Parker Barnes, Ben Hutchinson, Elena Spitzer, Lucy Vasserman, Inioluwa Deborah Raji, Timnit Gebru</i>
12:10–1:10PM	Lunch (Garden Courtyard)
1:10-2:00PM	Session 3: Profiling and Representation Session Chair: Carlos Castillo Bias in Bios: A Case Study of Semantic Representation Bias in a High-Stakes Setting <i>Maria De-Arteaga, Alexey Romanov, Hanna Wallach, Jennifer Chayes, Christian Borgs, Alexandra Chouldechova, Sahin Geyik, Krishnaram Kenthapadi, Adam Tauman Kalai</i> Equality of Voice: Towards Fair Representation in Crowdsourced Top-K Recommendations <i>Abhijnan Chakraborty, Gourab K Patro, Niloy Ganguly, Krishna P. Gummadi, Patrick Loiseau</i> The Profiling Potential of Computer Vision and the Challenge of Computational Empiricism <i>Jake Goldenfein</i> An Empirical Study of Rich Subgroup Fairness for Machine Learning <i>Michael J. Kearns, Seth V. Neel, Aaron L. Roth, Zhiwei Steven Wu</i>
2:00-2:50PM	Session 4: Fairness methods Session Chair: Zack Lipton

	<p>Fairness through Causal Awareness: Learning Causal Latent-Variable Models for Biased Data <i>David Madras, Elliot Creager, Toni Pitassi, Richard Zemel</i></p> <p>From Soft Classifiers to Hard Decisions: How fair can we be? <i>Ran Canetti, Aloni Cohen, Nishanth Dikkala, Govind Ramnarayan, Sarah Scheffler, Adam Smith</i></p> <p>Deep Weighted Averaging Classifiers <i>Dallas Card, Michael Zhang, Noah A. Smith</i></p>
<p>2:50-3:20PM</p>	<p>Break</p>
<p>3:20-4:10PM</p> <p>Best Technical Paper </p>	<p>Session 5: Content Distribution Session Chair: Robin Burke</p> <p>On Microtargeting Socially Divisive Ads: A Case Study of Russia-Linked Ad Campaigns on Facebook <i>Filipe Ribeiro, Koustuv Saha, Mahmoudreza Babaei, Lucas Henrique, Johnnatan Messias, Fabricio Benevenuto, Oana Goga, Krishna P. Gummadi, Elissa M. Redmiles</i></p> <p>Analyzing Biases in Perception of Truth in News Stories and their Implications for Fact Checking <i>Mahmoudreza Babaei, Abhijnan Chakraborty, Juhi Kulshrestha, Elissa M. Redmiles, Meeyoung Cha, Krishna P. Gummadi</i></p> <p>Controlling Polarization in Personalization: An Algorithmic Framework <i>L. Elisa Celis, Sayash Kapoor, Farnood Salehi, Nisheeth Vishnoi</i></p> <p>SIREN: A Simulation Framework for Understanding the Effects of Recommender Systems in Online News Environments <i>Dimitrios Bountouridis, Jaron Harambam, Mykola Makhortykh, Monica Marrero, Nava Tintarev, Claudia Hauff</i></p>
<p>4:10-5:00PM</p>	<p>Session 6: Law and Policy Session Chair: Andrew Selbst</p> <p>Robot Eyes Wide Shut: Understanding Dishonest Anthropomorphism <i>Brenda Leong, Evan Selinger</i></p> <p>Explaining Explanations in AI <i>Brent Mittelstadt, Chris Russell, Sandra Wachter</i></p> <p>Racial categories in machine learning <i>Sebastian Benthall, Bruce D. Haynes</i></p>

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	Measuring the Biases that Matter: The Ethical and Causal Foundations for Measures of Fairness in Algorithms <i>Bruce Glymour, Jonathan Herington</i>
5:30-7:00PM	Reception (Garden Courtyard)

Thursday, January 31



Unless otherwise noted, all General Session events will take place in the Capitol Ballroom.

The registration and information desk will be open from 7:00am - 6:00pm.

8:00-8:45AM	Continental Breakfast Room: Capitol Prefunction
8:45–9:00AM	Opening Remarks
9:00–10:00AM	Keynote 2: Deirdre Mulligan (University of California, Berkeley) Presentation: Beyond algorithmic scapegoating: fostering cultures of algorithmic responsibility through administrative law and design Discussant: Lilian Edwards
10:00-10:50AM	Session 7: Explainability Session Chair: Giles Hooker Actionable Recourse in Linear Classification <i>Berk Ustun, Alexander Spangher, Yang Liu</i> Model Reconstruction from Model Explanations <i>Smitha Milli, Ludwig Schmidt, Anca D. Dragan, Moritz Hardt</i> Efficient Search for Diverse Coherent Explanations <i>Chris Russell</i> On Human Predictions with Explanations and Predictions of Machine Learning Models: A Case Study on Deception Detection <i>Vivian Lai, Chenhao Tan</i>
10:50–11:20AM	Break
11:20–12:10PM	Session 8: Economic Models I Session Chair: Nathan Srebro A Moral Framework for Understanding Fair ML through Economic Models of Equality of Opportunity <i>Hoda Heidari, Michele Loi, Krishna Gummadi, Andreas Krause</i> Access to Population-Level Signaling as a Source of Inequality <i>Nicole Immorlica, Katrina Ligett, Juba Ziani</i>

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	<p>Fair Allocation through Competitive Equilibrium from Generic Incomes <i>Moshe Babaioff, Noam Nisan, Inbal Talgam-Cohen</i></p> <p>Fair Algorithms for Learning in Allocation Problems <i>Hadi Elzayn, Shahin Jabbari, Christopher Jung, Michael Kearns, Seth Neel, Aaron Roth, Zachary Schutzman</i></p>
12:10–1:10PM	Lunch (Garden Courtyard)
1:10-2:00PM	Town Hall
2:00-2:50PM	<p>Session 9: Learning Algorithms Session Chair: Nicole Immorlica</p> <p>Fairness under unawareness: assessing disparity when protected class is unobserved <i>Jiahao Chen, Nathan Kallus, Xiaojie Mao, Geoffry Svacha, Madeleine Udell</i></p> <p>Classification with Fairness Constraints: A Meta-Algorithm with Provable Guarantees <i>L. Elisa Celis, Lingxiao Huang, Vijay Keswani, Nisheeth K. Vishnoi</i></p> <p>A comparative study of fairness-enhancing interventions in machine learning <i>Sorelle A. Friedler, Carlos Scheidegger, Suresh Venkatasubramanian, Sonam Choudhary, Evan P. Hamilton, Derek Roth</i></p>
2:50-3:20PM	Break
3:20-4:10PM	<p>Session 10: Empirical Studies Session Chair: Karen Levy</p> <p>Best Technical + Interdisciplinary Paper  Disparate Interactions: An Algorithm-in-the-Loop Analysis of Fairness in Risk Assessments <i>Ben Green, Yiling Chen</i></p> <p>Best Non-Archival Submission  Dissecting Racial Bias in an Algorithm that Guides Health Decisions for 70 million people <i>Ziad Obermeyer, Sendhil Mullainathan</i></p> <p>A Taxonomy of Ethical Tensions in Inferring Mental Health States from Social Media <i>Stevie Chancellor, Michael Birnbaum, Eric Caine, Vincent Silenzio, Munmun De Choudhury</i></p> <p>Clear Sanctions, Vague Rewards: How China’s Social Credit System Defines “Good” and “Bad” Behavior <i>Severin Engelmann, Mo Chen, Felix Fischer, Ching-yu Kao, Jens Grossklags</i></p>

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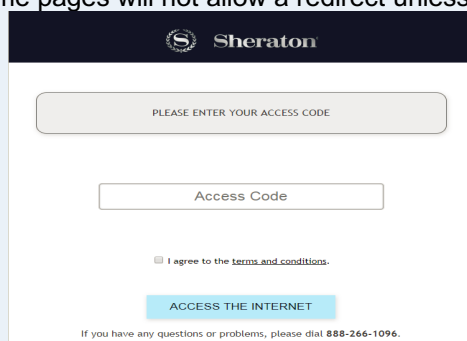
4:10-5:00PM	<p>Session 11: Economic Models II</p> <p>Session Chair: Inbal Talgam-Cohen The Disparate Effects of Strategic Manipulation <i>Lily Hu, Nicole Immorlica, Jennifer Wortman Vaughan</i></p> <p>The Social Cost of Strategic Classification <i>Smitha Milli, John Miller, Anca Dragan, Moritz Hardt</i></p> <p>From Fair Decision Making To Social Equality <i>Hussein Mouzannar, Mesrob I. Ohannessian, Nathan Srebro</i></p> <p>Downstream Effects of Affirmative Action <i>Sampath Kannan, Aaron Roth, Juba Ziani</i></p>
5:00-5:15PM	<p>Closing Remarks</p>

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Website: fatconference.org

Child care program: Conference room 121 (Level 1)
Prayer room: Georgia 14 (Level 1)
Networking room: Georgia 2 - 6 (Level 1)
Nursing room: Hospitality Suite (Level 2)

Wireless network connection and Access Code usage instructions:

1. Ensure your wireless card is on and active and search/view available networks.
2. Connect to the 'Sheraton Conference network (SSID). You may be prompted to 'Connect Anyway', confirm yes and continue. Note: If you have Windows 8 or higher select: No, Open browser to complete the connection
3. Once connected open your browser of choice (IE, Firefox, Safari, Chrome, Opera, etc) and you will be prompted with the below login in screen.
*If not redirected to screen below, try typing Google.com in your address bar and see if you redirect then. Some corporate/VPN home pages will not allow a redirect unless on the VPN.

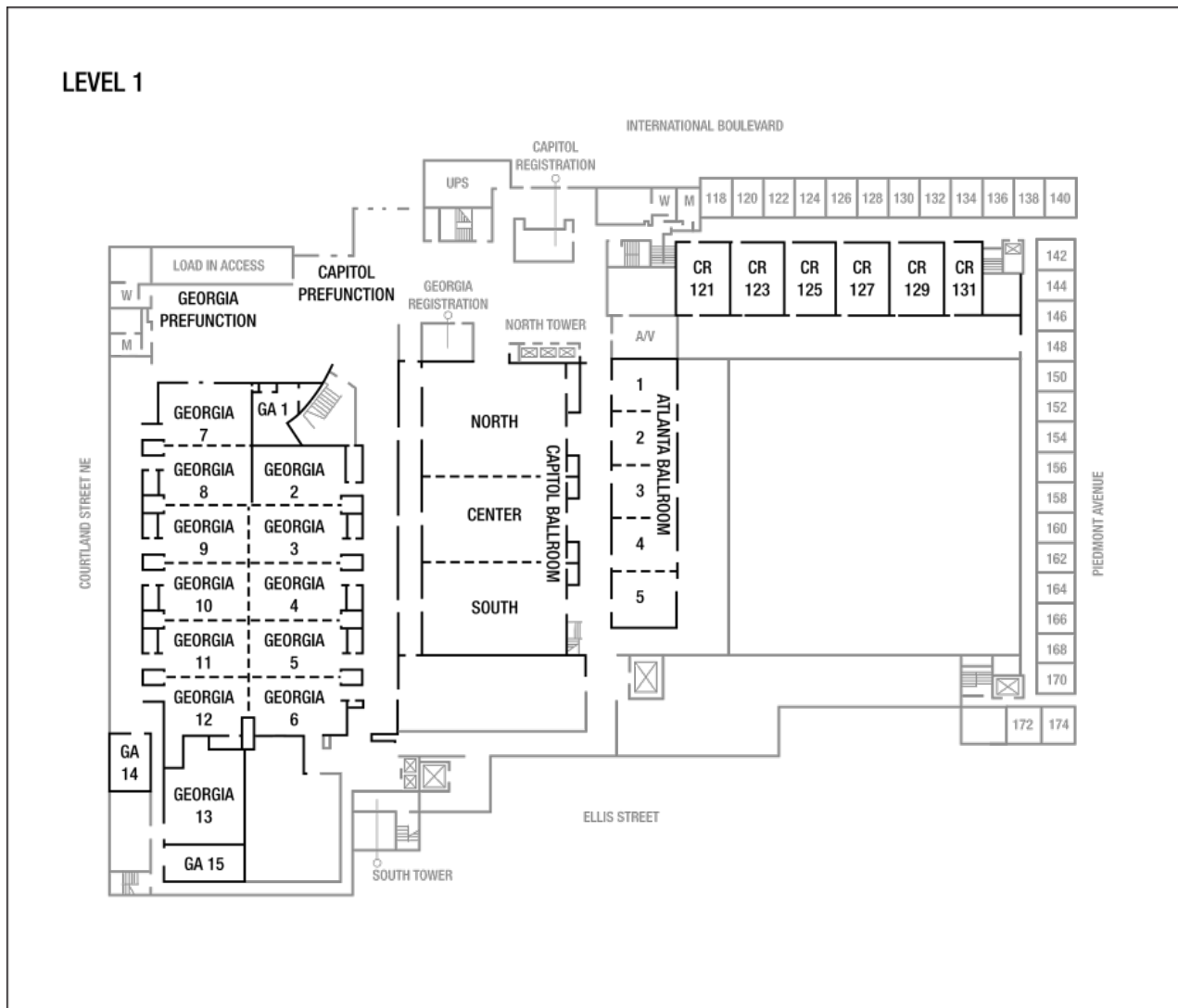


The screenshot shows a web interface for Sheraton network access. At the top is the Sheraton logo. Below it is a grey box with the text 'PLEASE ENTER YOUR ACCESS CODE'. Underneath is a white input field labeled 'Access Code'. Below the input field is a checkbox with the text 'I agree to the terms and conditions.'. At the bottom is a blue button labeled 'ACCESS THE INTERNET'. At the very bottom, in small text, it says 'If you have any questions or problems, please dial 888-266-1096.'

4. Enter your supplied Access Code in the spaces provided. Codes are case sensitive, click 'Connect' button.
5. You will be redirected to the PSAV Homepage once authenticated, if you don't get the PSAV Homepage within 30 seconds (and receive no error messages) then simply type in Google.com (or any public web page) and verify it loads.

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Floor Plan



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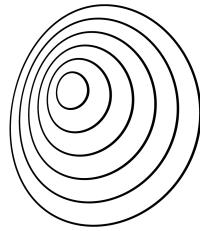
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