CATT 2020
GLOBAL ANALYTICS SUMMIT
ETHICS IN AI
November 19-20, 2020
The University of Texas at Austin

Zoom Link (for attendees only):
https://utexas.zoom.us/j/99122699557
Welcome to CATT’s 2020 Global Analytics Summit!

We are very pleased that you have chosen to join us. For the first time, this year’s conference is being held in a virtual, online format. As a result, we extended our reach and are delighted to be joined by over 1,200 conference delegates from all over the world! Our theme this year centers upon one of today’s most important topics in data science: the role of ethics, bias, and values in artificial intelligence (AI) and machine learning.

Our carefully curated portfolio of speakers and panelists is comprised of academic experts, industry leaders, and policy mavens who will share cutting-edge research findings and actionable insights of value to both producers and consumers of AI/ML systems.

This conference is sponsored by the Center for Analytics and Transformative Technologies (CATT) the McCombs School of Business—in collaboration with Good Systems: a UT Grand Challenge—and Dell Technologies.

I would like to give special thanks to this year’s conference speakers for sharing their expertise; our dedicated team of administrative staff, student volunteers, and program committee members for their immense contributions; and CATT’s Board members and affiliates, who offer continuous guidance and support to advance the Center’s mission. I am especially grateful to my Conference co-Chair, Maria De Arteaga, who tirelessly assembled program content.

On behalf of the entire Program Committee, we hope you enjoy the conference!

CATT Website: https://www.mccombs.utexas.edu/Centers/Center-for-Research-and-Analytics

Conference Website: https://www.mccombs.utexas.edu/Centers/Center-for-Research-and-Analytics/Conference
**CONFERENCE CHAIRS**

Maria De Arteaga, Department of IROM

Michael Sury, CATT and Department of Finance

**A SPECIAL THANKS TO OUR PROGRAM COMMITTEE**

Tej Anand, Department of IROM

Susan Broniarczyk, Associate Dean for Research and Dept. of Marketing

Andrea Christelle, Good Systems: a UT Grand Challenge

Maria De Arteaga, Department of IROM

Ken Fleischmann, Good Systems and I-School

Junfeng Jiao, Good Systems and School of Architecture

Prabhudev Konana, Department of IROM

Kumar Muthuraman, Department of IROM

Michael Sury, CATT and Department of Finance

Husseyin Tanriverdi, Department of IROM

**AND TO OUR STUDENT VOLUNTEERS**

Maria A. Blesa, McCombs School of Business

Sage Buchanan, McCombs School of Business

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2020 GLOBAL ANALYTICS SUMMIT SPONSORED BY

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[Center for Analytics and Transformative Technologies Logo]

[Dell Technologies Logo]

[Good Systems Logo]

A UT Grand Challenge
PROGRAM AGENDA

Day 1 – November 19, 2020 – (afternoon session)
*All times are listed in US Central Time Zone*

1:00PM  INTRODUCTORY REMARKS
Lillian F. Mills, Interim Dean, McCombs School of Business

1:10PM  KEYNOTE PRESENTATION
Ece Kamar, Senior Principal Research Manager, Microsoft Research
“In the Pursuit of Responsible AI: Developing AI Systems for People with People”
Moderated by: Patricia Moravec, Assistant Professor, UT Austin

2:00PM  SESSION I: BIAS IN AI: WHAT ARE THE RISKS?
Moderator: Huseyin Tanriverdi, Associate Professor, Dept. of IROM, UT Austin
Speakers:
Francesca Rossi, IBM AI Global Ethics Leader, IBM Research
“Addressing AI Bias: Beyond Technical Solutions”
Sina Fazelpour, Postdoctoral Fellow, Carnegie Mellon Univ.
“Bias in Algorithm-Based Decision-Making: Overcoming Myopia and Solutionism”
Maria De-Arteaga, Assistant Professor, McCombs School of Business, UT Austin
“Risks of Compounding Injustices in Automated Recruiting”

3:30PM  SESSION II: ETHICS AWARE DESIGN OF AI
Moderator: Joydeep Biswas, Assistant Professor, Dept. of Computer Science, UT Austin
Speakers:
Min Kyung Lee, Assistant Professor, School of Information, UT Austin
“AI for All: Enabling Participatory and Procedurally-Fair AI”
Ken Holstein, Assistant Professor, Human Computer Institute, Carnegie Mellon Univ.
“Improving Practice in Machine Learning Practice”

5:00PM  PANEL: OPERATIONALIZING ETHICS IN AI
Moderator: Luis Sentis, Human Centered Robotics Lab, School of Engineering, UT Austin
Panelists:
Luca Belli, Sr. Machine Learning Researcher, Twitter
Ashley Casovar, Executive Director, AI Global
Andrew Zaldivar, Sr. Developer Relations Engineer, Ethical AI, Google Research
Alice Xiang, Head of Fairness, Transparency, and Accountability Research, Partnership on AI
**PROGRAM AGENDA**

Day 2 – November 20, 2020 – (morning session)

*All times are listed in US Central Time Zone*

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<tr>
<th>Time</th>
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<tr>
<td>8:15AM</td>
<td><strong>MORNING PRESENTATION</strong></td>
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<td><em>James Guszcza, Fellow, Ctr. for Advanced Study in the Behavioral Sciences, Stanford Univ.</em></td>
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<td><em>“Human-Centered: Why Ethical and Effective AI Needs Human-Centered Design”</em></td>
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<td><em>Moderated by: Patricia Moravec, Assistant Professor, UT Austin</em></td>
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<td>9:00AM</td>
<td><strong>SESSION III: AI ACCOUNTABILITY</strong></td>
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<td><em>Moderator: Matthew Lease, Associate Professor, School of Information, UT Austin</em></td>
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<td>Deborah Hellman, Professor of Law, Univ. of Virginia School of Law</td>
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<td><em>“Big Data and Compounding Injustice”</em></td>
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<td>Aaron Horowitz, Chief Data Scientist, ACLU</td>
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<td><em>“‘Technical’ Choices are Often Policy Choices”</em></td>
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<td>Aaron Rieke, Managing Director, Upturn</td>
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<td><em>“Awareness in Practice: Tensions in Access to Sensitive Attribute Data for Antidiscrimination”</em></td>
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<td>10:30AM</td>
<td><strong>SESSION IV: TECHNOLOGY DETERMINISM AND UNETHICAL TECHNOLOGIES</strong></td>
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<td><em>Moderator: Sherri Greenberg, Clinical Professor, LBJ School of Public Affairs, UT Austin</em></td>
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<td><em>Speakers:</em></td>
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<td>Anna Lauren Hoffmann, Assistant Professor, The Information School, Univ. of Washington</td>
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<td><em>“Even When You Are a Solution You Are a Problem: Thinking Non-Ideally About Ethics and AI”</em></td>
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<td>Junfeng Jiao, Director, UT Austin School of Architecture &amp; Good Systems</td>
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<td><em>“Smart Cities, Transportation, and Tech Determinism”</em></td>
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<td>12:00PM</td>
<td><strong>PANEL: AI FOR BETTER AND MORE ETHICAL PRACTICES</strong></td>
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<td><em>Moderator: Tej Anand, Clinical Assistant Professor, Department of IROM, UT Austin</em></td>
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<td><em>Panelists:</em></td>
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<td>Adewole S. Adamson, Assistant Professor of Internal Medicine (Division of Dermatology), UT Austin Dell Medical School</td>
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<td>Elisa Celis, Assistant Professor, Yale Univ.</td>
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<td>Michael Chui, Partner, McKinsey &amp; Co.</td>
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<td>Michael Shepherd, Distinguished Engineer, Dell Technologies</td>
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| 1:00PM | **CLOSING REMARKS / FORMAL CONFERENCE CONCLUDES** |

CATT 2020 GLOBAL ANALYTICS SUMMIT – NOVEMBER 19 & 20, 2020
SPEAKER BIOGRAPHIES
(in alphabetical order)

ADEWOLE S. ADAMSON
Assistant Professor of Internal Medicine (Division of Dermatology), UT Austin Dell Medical School

Adewole (Ade) Adamson, M.D., MPP, is a board-certified dermatologist and assistant professor in the Department of Internal Medicine. His primary clinical interest is in caring for patients at high risk for melanoma of the skin, such as those with many moles (particularly atypical moles) or a personal and/or family history of melanoma.

Adamson’s research involves understanding patterns of health care utilization including overuse and underuse in dermatology. He is interested in how effectively and efficiently the health care system delivers care to patients with skin cancer, the most common type of cancer in the United States. He is passionate about health care disparities, access to specialty health care and health care costs. He speaks nationally about health care quality, value and the application of evidence-based medicine within dermatology.

Adamson is a proud graduate of Morehouse College, where he received a Bachelor of Science in biology and French. He later earned a medical degree with honors at Harvard Medical School as part of the health sciences and technology program with the Massachusetts Institute of Technology. While in medical school he spent a year conducting basic science research in immunology at the National Institutes of Health and later earned a Master in Public Policy at Harvard Kennedy School as a Zuckerman fellow in the Center for Public Leadership.

TEJ ANAND
Clinical Assistant Professor, McCombs School of Business

Tej Anand is an award-winning business-technology strategist, innovator, educator and practitioner who was a senior healthcare business-technology executive at Medco Health Solutions and CareCentrix. In both these companies, Tej conceived ideas and led teams in the execution of innovative business models and business processes that lowered healthcare costs and improved clinical outcomes. His work has led to several patents. As an electrical engineer and computer scientist who specialized in artificial intelligence (AI) research in the late 1980’s, Tej pioneered commercial data mining, now known as data science. His work at NCR/Teradata, A. C. Nielsen and Philips Research Laboratories led to several patents and profitable revenue producing products. Tej also worked as a CIO and a management consultant at Golden Books, NetCreations, and The Concours Group.

Tej earned his doctorate in adult learning and organizational leadership at Teachers College, Columbia University and his passion is to find solutions at the nexus of business, operations, data and technology with a central focus on people. He is currently an Assistant Clinical Professor at the McCombs School of Business, University of Texas in Austin and a Visiting Lecturer at Columbia University, School for Professional Studies.
LUCA BELLI  
Sr. ML Researcher, Twitter

Luca is the research lead for the Machine Learning Ethics, Transparency and Accountability (META) team at Twitter that he co-founded. His work is helping to tackle those important issues at Twitter’s speed and scale. His research interests revolve around machine learning feedback loops, and how the system might reinforce existing biases. Before that he worked at Conversant and WolframAlpha. His background is in pure math, and he has a PhD from the University of Rome “Tor Vergata”.

JOYDEEP BISWAS  
Assistant Professor, Dept. of Computer Science, UT Austin

Joydeep Biswas’ research areas include perception, planning, and failure recovery for autonomous mobile robots. These topics support his goal of having autonomous service mobile robots deployed on a campus to city scale, both indoors and outdoors, in real world human environments, performing assistive tasks accurately and robustly on demand, over deployments spanning years. He is most interested in tackling research problems that will directly improve long-term autonomy on real world robots deployed in human environments. Prior to joining UT Austin, Joydeep was an Assistant Professor in the College of Information and Computer Sciences at University of Massachusetts Amherst. He earned his PhD in Robotics from Carnegie Mellon University in 2014, and his B.Tech in Engineering Physics from the Indian Institute of Technology Bombay in 2008.

ASHLEY CASOVAN  
Executive Director, AI Global

Ashley has been at the forefront of building tools and policy interventions to support the responsible use and adoption of innovative technologies, both with her work at the Government of Canada, and as the Executive Director of AI Global, a multi-stakeholder non-profit dedicated to mitigating harm and unintended consequences of AI systems. As a recognized leader in the social tech community she has developed a strong reputation for developing workable governance for data, artificial intelligence, and open source tools. Her work and ability to bring experts together to solve important challenges has led to meaningful change in government and beyond. Her work helps to inform government, industry, and academic research.
ELISA CELIS  
Assistant Professor, Yale University

Elisa Celis is an assistant professor in the Statistics & Data Science department at Yale University. She studies the manifestation of social and economic biases in our online lives via the algorithms that encode and perpetuate them. Her research leverages both experimental and theoretical approaches, and her work spans multiple disciplines including data science, machine learning, fairness in socio-technical systems and algorithm design.

At Yale, she also co-founded the Computation and Society Initiative.

MICHAEL CHUI  
Partner, McKinsey & Co.

Michael Chui is a partner at the McKinsey Global Institute (MGI), McKinsey's business and economics research arm. He leads research on the impact of disruptive technologies and innovation on business, the economy, and society. Michael has led McKinsey research in such areas as data & analytics, social & collaboration technologies, the Internet of Things, and artificial intelligence, robotics & automation, and biological technologies. Michael is a frequent speaker at major global conferences, and his research has been cited in leading publications around the world. His PhD dissertation, entitled "I Still Haven't Found What I'm Looking For: Web Searching as Query Refinement," examined Web user search behaviors and the usability of Web search engines.

As a McKinsey consultant, Michael served clients in the high-tech, media, and telecom industries on strategy, innovation and product development, IT, sales and marketing, M&A, and organization. He is also on the boards of the James Irvine Foundation and the Asia Society of Northern California, and a member of the Council on Foreign Relations.

Prior to joining McKinsey, Michael served as the first chief information officer of the city of Bloomington, Indiana, where he re-architected the enterprise architecture using open source technologies and led a project that resulted in Bloomington becoming the first community in the world to offer both live and archived video streaming of public meetings on the Web.

Before that, Michael was founder and executive director of HoosierNet, Inc., a nonprofit cooperative Internet service provider that offered dial-up and broadband access to the Internet to consumers, nonprofits, governments, and businesses.

Michael is based in McKinsey's San Francisco Office.
MARIA DE-ARTEAGA  
Assistant Professor, McCombs School of Business, UT Austin

Maria De-Arteaga is an Assistant Professor at the Information, Risk and Operations Management Department at the University of Texas at Austin. She received a joint PhD in Machine Learning and Public Policy from Carnegie Mellon University. Her research focuses on the risks and opportunities of using machine learning for decision support in high-stakes settings. Her work has been awarded the Best Thematic Paper Award at NAACL'19, the Innovation Award on Data Science at Data for Policy’16, and has been featured by UN Women and Global Pulse in their report Gender Equality and Big Data: Making Gender Data Visible. She is a recipient of a 2020 Google Award for Inclusion Research, a 2018 Microsoft Research Dissertation Grant, and was named an EECS 2019 Rising Star. In 2017 she co-founded the Machine Learning for the Developing World (ML4D) Workshop series at NeurIPS.

SINA FAZELPOUR  
Postdoctoral Fellow, Carnegie Mellon University

Sina Fazelpour is a Social Sciences and Humanities Research Council (SSHRC) Postdoctoral Fellow in the Department of Philosophy at Carnegie Mellon University, with a secondary affiliation with the Machine Learning Department. He is also a Council Fellow on the World Economic Forum’s Global Future Council on Data Policy. He holds a PhD in Philosophy from the University of British Columbia, a M.Sc in medical biophysics from the University of Toronto, and a B.Eng in electrical and biomedical engineering from McMaster University. His primary research focus is on issues of reliability and accountability in predictive and decision-making algorithms. He also works on understanding the impact of diversity on group dynamics and performance. He has published in the philosophy of science, cognitive science and ethics of artificial intelligence, and his research has been supported by Joseph-Armand Bombardier Canada Graduate Scholarship, the Block Center for Technology and Society, the Templeton Foundation, and Natural Sciences and Engineering Research Council of Canada.

SHERRI GREENBERG  
Clinical Professor, LBJ School of Public Affairs, UT Austin

Sherri R. Greenberg is a clinical professor and fellow of the Max Sherman Chair in State and Local Government at the LBJ School of Public Affairs, and she is the graduate adviser for the LBJ School Master of Public Affairs Program. Greenberg is vice-chairperson of the Board of Managers of Central Health, a member of the City of Austin Regional Affordability Committee, and
SHERRI GREENBERG (continued)
a member of the UT Opportunity Forum Steering Committee. She serves on the Texas.Gov Steering Committee, the Austin CityUp Board of Directors, the Austin Forum on Technology & Society Advisory Board, and the City of Austin General Obligation Housing Bond Review Committee.

Additionally, Greenberg has served as a senior adviser to Austin Mayor Steve Adler. She was a Texas state representative from 1991 to 2001, and she chaired the House Pensions and Investments Committee and the Select Committee on Teacher Health Insurance. She also served on the House Appropriations, Economic Development, Elections, and Science and Technology Committees. Previously, Greenberg was the City of Austin capital finance manager, and a public finance officer at Standard & Poor’s. Greenberg holds an MSc in Public Administration and Policy from the London School of Economics.

JAMES GUSZCZA
Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford University

During his fellowship year, James Guszcza plans to write a book on the philosophical foundations of human-centered artificial intelligence, drawing on ideas from psychology, human-centered design, collective intelligence, and ethics. The motivating idea is that enjoying the promise of AI while avoiding its many well-publicized pitfalls will require a foundation for AI that extends beyond computer science and machine learning to encompass various types of human factors. Guszcza’s previous writings on this topic can be found here.

Guszcza has worked as data scientist for two decades and is the first person to be designated Deloitte’s U.S. Chief Data Scientist. The creation of hybrid human-machine systems has been a recurring theme in his work. In recent years, he has applied behavioral nudge techniques to more ethically and effectively operationalize machine learning algorithms. Guszcza is a former professor at the University of Wisconsin-Madison business school and holds a PhD in philosophy from The University of Chicago. He serves on the scientific advisory board of the Psychology of Technology Institute.

DEBORAH HELLMAN
David Lurton Massee, Jr. Professor of Law, University of Virginia School of Law

Deborah Hellman is the David Lurton Massee, Jr. Professor of Law at the University of Virginia School of Law. Her two main scholarly interests are discrimination and corruption. She is the author of When Is Discrimination Wrong? (Harvard Univ. Press, 2008) and A Theory of Bribery, 38 Cardozo L. Rev. 1947 (2017) which won the 2019 Fred Berger Memorial Prize from the American Philosophical Association. Among her articles that are specifically related to the subject of her talk are: Measuring Algorithmic Fairness, 106 Va. L. Rev. 811 (2020) and Sex, Causation and Algorithms, __ Wash. U. L. Rev__ (forthcoming, 2020), and Big Data and Compounding Injustice, Journal of Moral Phil. (forthcoming). She was elected to the American Law Institute in 2019.
ANNA LAUREN HOFFMANN
Assistant Professor, The Information School, University of Washington
Anna Lauren Hoffmann is an Assistant Professor with The Information School at the University of Washington. Her work centers on issues in information, data, and ethics, paying particular attention to how discourses surrounding data science and technology, especially around terms like fairness or inclusion, can work to promote or undermine the pursuit of social justice.

KEN HOLSTEIN
Assistant Professor, Human-Computer Interaction Institute, Carnegie Mellon University
Dr. Ken Holstein is an Assistant Professor in Human-Computer Interaction (HCI) at Carnegie Mellon University, where he leads the Co-Augmentation, Learning, and AI (CoALA) Lab (https://www.thecoalalab.com/). His group focuses on creating new technologies to complement and bring out the best of human ability in fundamentally human endeavors. Their research lies at the intersection of HCI, AI, design, cognitive science, and the learning sciences. Much of their work focuses on improving fairness and human agency in human–AI systems. Throughout this work, they partner with stakeholders in real-world contexts, and create new methods to facilitate these stakeholders’ involvement throughout the AI development lifecycle. Finally, they conduct field research to understand the impacts of human–AI systems in real world contexts.

AARON HOROWITZ
Chief Data Scientist, ACLU
As the Chief Data Scientist at the ACLU, my primary role is to set the technical direction and vision of our ~16 person data and analytics team. Our team supports litigation, advocacy, and fundraising with research and analytics. We’ve worked on everything from ensuring the census did not have a question about citizenship to building churn models to try and convince our monthly givers to stick with us in the fight ahead. In my role, I often advise our lawyers and advocates on real-world challenges to existing algorithmic systems.
**JUNFENG JIAO, PHD**

Director, UT Austin School of Architecture & Good Systems

Junfeng Jiao is an associate professor in the Community and Regional Planning program and founding director of Urban Information Lab at UTSOA.

His research focuses on urban informatics/big data, smart city and shared mobility. He has used different technologies (GIS, GPS, Drone, smart phone, social media, wearable devices, etc.) to quantify cities and understand their impacts on people's behaviors. He has investigated 311 calls' spatial distribution, Uber's price surge, Airbnb's spatial clustering, People's perception of cities in cyber space, E-scooters' spatial-temporal pattern, and bike sharing travels. He firstly coined the term of Transit Desert and measured it in all major US cities. His works were widely reported by the Associated Press, CNN, US News, Yahoo, MSN, NBC, NPR, USA today, Finance and Commerce, City Lab, The Conversation, Chicago Tribune, San Francisco Chronicle, LA Times, Seattle Times, Seattle Met, Dallas News, Houston Chronicle, Austin Statesman, Texas Tribune, Wired and many other news outlets.


He is a recipient for CM2 University Transportation Center Best Equity Project Award, UTSOA Research Excellence Award, UT Provost Experiential Learning Award, and UT President Award for Global Learning.

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**ECE KAMAR**

Senior Principal Research Manager, Microsoft Research

Ece Kamar is a Senior Principal Research Area Manager at Microsoft Research Redmond overseeing the research on Human-centered AI. Her research investigates research problems at the intersection of AI systems, people and our society; exploring how limitations of AI systems lead to concerns around biases, reliability and safety problems, investigating novel ways for AI systems to support people, and finally developing frameworks for human-AI teamwork for complementarity. Ece also serves as the Technical Advisor of Microsoft’s company-wide committee on AI, Ethics and Effects in Engineering and Research (AETHER). In her advisory role, she consults product teams at Microsoft on issues around Responsible AI, helps to develop best practices, tools and guidance to support the development of responsible, unbiased and reliable AI systems for the open-world.
MATTHEW LEASE
Associate Professor, School of Information, UT Austin

Matthew Lease received degrees in Computer Science from Brown University (PhD, MSc) and the University of Washington (BSc). His research on information retrieval and crowdsourcing was recognized by three Early Career awards: from the Defense Advanced Research Projects Agency (DARPA), the National Science Foundation (NSF), and the Institute for Museum and Library Sciences (IMLS). More recent honors include Best Student Paper at the 2019 European Conference for Information Retrieval (ECIR) and Best Paper at the 2016 Association for the Advancement of Artificial Intelligence (AAAI) Human Computation and Crowdsourcing conference (HCOMP). From 2010-2013, Lease ran benchmarking challenges for the National Institute of Standards and Technology (NIST) Text Retrieval Conference (TREC). Lease’s industry experience includes stints at Intel Research, Computer game company HyperBole Studios, image compression startup LizardTech, crowdsourcing startup CrowdFlower, and Amazon.

MIN KYUNG LEE
Assistant Professor, School of Information, UT Austin

Min Kyung Lee is an assistant professor in the School of Information. Dr. Lee has conducted some of the first studies that empirically examine the social implications of algorithms’ emerging roles in management and governance in society. She has extensive expertise in developing theories, methods and tools for human-centered AI and deploying them in practice through collaboration with real-world stakeholders and organizations. She developed a participatory framework that empowers community members to design matching algorithms that govern their own communities. Her current research is inspired by and complements her previous work on social robots for long-term interaction, seamless human-robot handovers, and telepresence robots. Dr. Lee is a Siebel Scholar and has received the Allen Newell Award for Research Excellence along with research grants from NSF and Uptake. She received a PhD and a MS in Human-Computer Interaction and an MDes in Interaction Design from Carnegie Mellon University and a BS from the Korea Advanced Institute for Science and Technology (KAIST).
Lillian Mills is the Interim Dean-designate and holds the Beverly H. and William P. O’Hara Endowed Chair in Business. She joined University of Texas at Austin in 2006 and served as Graduate Advisor for the accounting doctoral program during 2009-2010 and as Department Chair from 2010-2015. Her research interests in tax compliance, accounting for income taxes and effective tax rates, and international taxation arose through her professional experience, where she was a senior manager in taxation for Price Waterhouse.

She earned her B.S. and M.S. at the University of Florida and Ph.D. at the University of Michigan and worked at the University of Arizona from 1997-2005. She received the 2000 Arizona CPA Foundation Excellence in Teaching Award and the 2004 Eller College Dean’s Award for Excellence in Teaching. In 2005 she and co-author George Plesko were awarded the American Accounting Association Deloitte Wildman Medal for “Bridging the reporting gap: a proposal for more informative reconciling of book and tax income,” National Tax Journal, December 2003. The Wildman Medal is awarded to the published paper that has made or is likely to make the most significant contribution to the advancement of the practice of accounting. Her paper, “Last chance earnings management: Using tax expense to achieve analysts’ forecasts,” co-authored with Dan Dhaliwal and Cristi Gleason, won the American Taxation Association 2007 Manuscript Award. Her paper, “The effect of mandatory financial statement disclosures on tax reporting and collections: the case of FIN 48 and multistate tax avoidance,” co-authored with Sanjay Gupta and Erin Towery, won the JATA 2015 Outstanding Paper Award.

Professor Mills was a consultant to the IRS Large Business and International division for about 20 years. In 2003 and 2004 she served on an IRS/Treasury workgroup developing Form 1120 Schedule M-3. In 2005 and 2006 she was a Stanley Surrey Senior Research Fellow at the Office of Tax Analysis for the U.S. Department of Treasury. In 2007 she was appointed to the IRS’ Information Reporting Program Advisory Committee as a member of the Tax Gap Measurement subcommittee.

Tricia Moravec is an Assistant Professor of Information Management at the University of Texas at Austin. Her dissertation (defended May 2019) focused on the dissemination, credibility, and influence of information online, with a focus on the ramifications of fake news.

Previously, she worked at KPMG within their CIO Advisory group from August, 2015, to 2016. She earned two undergraduate degrees from Indiana University in physics and astronomy/astrophysics in 2014. She then changed career paths and graduated from the MSIS program at Indiana University Kelley School of Business in May, 2015, with a concentration in Business Intelligence and Analytics. In her time with KPMG, she worked on an execution of an IT separation for a major medical device manufacturer, monitoring the delivery of over 300 applications and services between the parent company and divested entity.
AARON RIEKE
Managing Director, Upturn

Aaron Rieke is a Managing Director at Upturn. Based in Washington D.C., Upturn advances equity and justice in the design, governance, and use of technology. Recently, Aaron’s work has focused on the impact of new technologies on people’s economic opportunity, in domains including consumer finance, digital advertising, and public benefits. He has authored influential reports on digital marketing discrimination, hiring technologies, online payday lending, lead generation, and new types of credit data. He works closely with major civil rights organizations, local advocates, consumer groups, and companies.

Aaron has more of a decade of experience at the nexus of technology, law, and policy. Before joining Upturn, Aaron served as an Attorney in the Federal Trade Commission’s Division of Privacy and Identity Protection, and was a Ron Plessner Fellow at the Center for Democracy & Technology. He has also worked as a web developer, professional tutor, filmmaker, and forest ranger.

Aaron earned a J.D. from Berkeley Law, where he was a Fellow at the Berkeley Center for Law and Technology, with a Certificate of Law and Technology. He earned a B.A. in Philosophy from Pacific Lutheran University.

FRANCESCA ROSSI
IBM AI Ethics Global Leader, IBM Research

Francesca Rossi is an IBM fellow and the IBM AI Ethics Global Leader. She works at the T.J. Watson IBM Research Lab, Yorktown Heights, New York. Prior to joining IBM, she has been a professor of computer science at the University of Padova, Italy.

Francesca’s research interests focus on artificial intelligence, specifically they include constraint reasoning, preferences, multi-agent systems, computational social choice, and collective decision making. She is also interested in ethical issues in the development and behavior of AI systems, in particular for decision support systems for group decision making. On these topics, she has published over 200 scientific articles in journals and conference proceedings, and as book chapters.

She is a fellow of both the worldwide association of AI (AAAI) and of the European one (EurAI). She has been president of IJCAI (International Joint Conference on AI), an executive councillor of AAAI, and the Editor in Chief of the Journal of AI Research.

She is a member of the scientific advisory board of the Future of Life Institute (Cambridge, USA) and a deputy director of the Leverhulme Centre for the Future of Intelligence (Cambridge, UK). She is in the executive committee of the IEEE global initiative on ethical considerations on the development of autonomous and intelligent systems and she is a member of the board of directors of the Partnership on AI, where she represents IBM as one of the founding partners. She has been a member of the European Commission High Level Expert Group on AI and the general chair of the AAAI 2020 conference. She will be the AAAI president in 2022-2024.

At IBM, she is the PI in exploratory research projects, also in collaboration with MIT and RPI, on topics that range from embedding ethical principles into AI decision making to exploiting cognitive theories of human decision making to define more flexible, robust, and general AI systems. She also co-leads the internal IBM AI Ethics board, that coordinates the governance of AI ethics within the whole company.
LUIS SENTIS
Associate Professor, Cockrell School of Engineering, UT Austin

Luis Sentis is an Associate Professor in the Department of Aerospace Engineering and Engineering Mechanics at The University of Texas at Austin and General Dynamics Endowed Faculty Fellow. He received his Ph.D. and M.S. degrees in Electrical Engineering from Stanford University where he was also a Postdoctoral Fellow in the Computer Science Department. He was a La Caixa Foundation Fellow while at Stanford. He holds a B.S. degree in Telecommunications and Electronics Engineering from the Polytechnic University of Catalonia. Before Stanford, he worked in Silicon Valley as a Control Systems Engineer.

In Austin, he leads the Human Centered Robotics Laboratory, a laboratory focusing on control and experimentation with walking robots and exoskeletons, design of high performance ground systems, and algorithms for active sensing in human environments. He is also a founding member of the UT Robotics Portfolio Program and the UT Robotics Center of Excellence. He was the UT Austin's Lead for DARPA's Robotics Challenge with NASA Johnson Space Center where he helped to design and test the Valkyrie humanoid robot. His research has been funded by NASA, the Office of Naval Research, Army Futures Command, NSF, DARPA, and private companies.

He has been awarded the NASA Elite Team Award for his contributions to NASA’s Johnson Space Center Software Robotics and Simulation Division. He is also a founding member and scientific advisor for Apptronik Systems, a company focusing on human-centered robotic products and R&D in human-augmentation exoskeletons and humanoids.

MICHAEL SHEPHERD
Distinguished Engineer, Dell Technologies

Michael is a Distinguished Engineer and recognized technical evangelist who speaks globally on the impact of emerging technologies.

With 25 yrs of experience in Technology backed by 14 years growing up in Asia, he currently leads AI Research for Dell Technologies Services and serves on the Pan Dell Patent Committee.

Michael’s responsibilities include engaging with external researchers and collaborating internally across the Chief Technology Offices to envision and drive transformation as we prepare for the Age of AI.

As Augmented Intelligence improves the efficiency by which humans and machines work together, Michael focuses on “the possibilities” with Machine Intelligence and provides vision for how Data Scientists in Dell Technologies Services can help drive human progress and better outcomes for businesses and humanity.

Michaels experience as a sole proprietor and subsequent 20+ yrs at Dell in multiple organizations gives him a unique perspective of Dell’s entire product life-cycle. He serves on the MSBA advisory council for the University of Texas McCombs School of Business and has been granted thirteen hardware and software patents in eight countries.
MICHAEL SURY  
Managing Director, Center for Analytics & Transformative Technologies, University of Texas at Austin

Michael Sury is the Managing Director of the Center for Analytics & Transformative Technology; and is an award-winning professor who has taught at both the undergraduate and graduate levels for over 14 years. Michael began his career working in technology in 1986, designing intelligent systems architectures in the AI Group at MCC—the noted R&D consortium formed by tech heavyweights including Intel, GE, and Microsoft. Michael later worked for Lockheed Missiles & Space Co. on classified projects for the DoD’s Strategic Defense Initiative (SDI); and IBM, where he taught and implemented statistical process control (SPC) and real-time analytics for manufacturing engineering across the IBM PC production line.

After graduate school at the University of Chicago, Michael was recruited by Goldman Sachs & Co., and served as a Vice President in the firm’s Equities Division and Investment Management Division. He later led one of the nation’s top-ranked wealth management and institutional broker-dealer trading firms before ultimately selling his stake and entering academia. He has taught at the University of California, Santa Clara University, and now on the faculty of Finance at the University of Texas. At UT, he serves as the Program Director of the Financial Analytics track within the MSBA program, and as a member of the MSB Analytics Task Force.

He has delivered over 80 conference speeches in the US and internationally; and has appeared on major broadcast networks (ABC, CBS, NBC, Fox) as well as in Bloomberg, CNBC, and a variety of news publications for his insights and commentary on financial analytics and the capital markets.

HUSEYIN TANRIVERDI  
Associate Professor, McCombs School of Business, UT Austin

Hüseyin Tanriverdi is an associate professor of information, risk, and operations management at the Red McCombs School of Business at the University of Texas at Austin. His research focuses on firm-level risk/return implications of IT strategies. On the return side, he studies digital business strategies for surviving and thriving in complex, hypercompetitive, and disruptive business ecosystems. On the risk side, he studies IT-related risks of firms such as data security and privacy risks, and how IT governance and control mechanisms could mitigate them.

Hüseyin teaches courses on strategic IT management, IT governance for enterprise risk management and regulatory compliance, and management of emerging information technologies. His research has been published in information systems journals such as Information Systems Research, MIS Quarterly, Journal of the Association for Information Systems, and European Journal of Information Systems, and management journals such as Academy of Management Journal and Strategic Management Journal. His publications received best published paper awards from the Organizational Communications and Information Systems Division of the Academy of Management and the Telemedicine Journal (now known as Telemedicine and e-Health).
ALICE XIANG
Head of Fairness, Transparency, and Accountability (FTA) Research, Partnership On AI

Alice Xiang is the Head of Fairness, Transparency, and Accountability Research at the Partnership on AI, where she leads a team of interdisciplinary researchers conducting research on algorithmic fairness, explainability, criminal justice risk assessment tools, and diversity and inclusion in the field of AI. Alice’s work sits at the intersection of social justice and AI; she seeks to tackle the ways in which algorithmic decision-making can potentially reflect or entrench societal inequities.

She recently taught a course on “Algorithmic Fairness, Causal Inference, and the Law” at Tsinghua University’s Yau Mathematical Sciences Center, where she was a Visiting Scholar. She has also given lectures and speeches at events hosted by the AAAS, IEEE, Harvard Institute of Quantitative Social Science, Tsinghua Statistical Sciences Center, and RE•WORK, among others.

Alice’s research has been published in peer-reviewed machine learning conferences, statistics journals, and law reviews. She has also been quoted in Fortune, the MIT Tech Review, Axios, and VentureBeat, among others, for her work on algorithmic bias, transparency, and criminal justice risk assessment tools.

Prior to joining PAI, Alice worked as an attorney at Gunderson Dettmer, representing startups and venture capital firms. She has also worked in civil appellate litigation at the Department of Justice, econometrics research at the Federal Reserve, and data science at LinkedIn. Alice holds a Juris Doctor from Yale Law School, a Master’s in Development Economics from Oxford, a Master’s in Statistics from Harvard, and a Bachelor’s in Economics from Harvard.

ANDREW ZALDIVAR, PHD
Senior Developer Relations Engineer, Ethical AI, Google Research

Andrew Zaldivar is a Senior Developer Relations Engineer for the Ethical AI Team at Google Research. Andrew is devoted to helping others progress in the responsible development of AI by sharing knowledge, research, tools, and other resources with the larger community. Previously, he was a Senior Strategist in Google’s Trust and Safety Group, protecting the integrity of some of Google’s key products by utilizing machine learning to scale, optimize, and automate abuse fighting efforts.

Andrew holds a doctorate in Cognitive Neuroscience from the University of California, Irvine and was an Insight Data Science fellow in 2014.