

THE PROGRAM GUIDE FOR

Fifth AAAI/ACM Conference on

ARTIFICIAL INTELLIGENCE, ETHICS, & SOCIETY

AUGUST 1-3, 2022 | OXFORD, ENGLAND

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Information on Oxford Park & Rides

How to find Keble College

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ACKNOWLEDGEMENTS

The Association for the Advancement of Artificial Intelligence acknowledges and thanks the following individuals for their generous contributions of time and energy to the successful creation and planning of the Fifth Annual AAAI / ACM Conference on Artificial Intelligence, Ethics, and Society.

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PROGRAM OVERVIEW

The AIES-22 program will be held virtually and at Keble College, Oxford University. All timings are in British Summer Time (UTC / GMT \pm 1).

	MONDAY, AUGUST 1	TUESDAY, AUGUST 2	WEDNESDAY, AUGUST 3
9:15-9:30	Welcome		
9:30-10:15	Invited Talk 1	Invited Talk 4	Student Lightning Talks
10:15-10:30	Q&A	Q&A	Student Lightning Talks
10:30-10:45	Coffee Break	Coffee Break	Student Lightning Talks
10:45-11:45	Lightning Talks	Lightning Talks	Student Poster Session
11:45-12:00	Break	Break	Closing Remarks
12:00-12:45	Invited Talk 2	Invited Talk 5	Farewell Lunch
12:45-1:00	Q&A	Q&A	Farewell Lunch
1:00-3:00	Lunch Break / Online Poster Sessions	Lunch Break / Online Poster Sessions	
3:00-4:00	Lightning Talks	Lightning Talks	
4:00-4:15	Coffee Break	Coffee Break	
4:15-5:00	Invited Talk 3	Invited Talk 6	
5:00-5:15	Q&A	Q&A	
5:15-5:30	Break	Break	
5:30-7:30	Reception / Poster Session	Reception / Poster Session	

AIES-22 DETAILED PROGRAM MONDAY, AUGUST 1	

9:15–9:30 Welcome // O'Reilly Theatre

Program and General Chairs

9:30–10:15 Invited Talk 1: Inioluwa Deborah Raji, University of California, Berkeley // O'Reilly Theatre

From Algorithmic Audits to Actual Accountability

10:15-10:30 Q&A

10:30-10:45 Coffee Break // Arco Building

10:45-11:45 Lightning Talk Session 1 // O'Reilly Theatre

American == White in Multimodal Language-and-Image Al Robert Wolfe and Aylin Caliskan

Ordinary People as Moral Heroes and Foes:

Digital Role Model Narratives Propagate Social Norms in China's Social Credit System Mo Chen, Severin Engelmann and Jens Grossklags

A Meta-Analysis of the Utility of Explainable Artificial Intelligence in Human-Al Decision-Making Max Schemmer, Patrick Hemmer, Maximilian Nitsche, Niklas Kühl and Michael Vössing

Does AI de-Bias Recruitment? Race, Gender, and AI's 'Eradication of Differences Between Groups' Kerry Anne Mackereth and Eleanor Drage

Gender Bias in Word Embeddings: A Comprehensive Analysis of Frequency, Syntax, and Semantics Aylin Caliskan, Pimparkar Parth Ajay, Tessa Charlesworth, Robert Wolfe and Mahzarin Banaji

Managing Sustainability Tensions in Artificial Intelligence: Insights from Paradox Theory Eleanor Mill, Wolfgang Garn and Nick Ryman-Tubb

Crowdsourcing Impacts: Exploring the Utility of Crowds for Anticipating Societal Impacts of Algorithmic Decision Making *Julia Barnett and Nicholas Diakopoulos*

Social media profiling continues to partake in the development of formalistic self-concepts. Social media users think so, too.

Severin Engelmann, Valentin Scheibe, Fiorella Battaglia and Jens Grossklags

FINS Auditing Framework: Group Fairness for Subset Selections Kathleen Cachel and Elke Rundensteiner

MONDAY, AUGUST 1

Write It Like You See It: Detectable Differences in Clinical Notes By Race Lead To Differential Model Recommendations

Hammaad Adam, Ming Ying Yang, Kenrick Cato, Ioana Baldini, Charles Senteio, Leo Celi, Jiaming Zeng, Moninder Singh and Marzyeh Ghassemi

Artificial Moral Advisors: A New Perspective from Moral Psychology Yuxin Liu, Adam Moore, Jamie Webb and Shannon Vallor

A Model for Governing Information Sharing in Smart Assistants Xiao Zhan, Stefan Sarkadi, Natalia Criado Pacheco and Jose Such

11:45-12:00 Short Break

12:00–12:45 Invited Talk 2: Ronald Arkin, Georgia Institute of Technology // O'Reilly Theatre

Robots that Need to Mislead: Biologically-inspired Machine Deception

12:45-1:00 Q&A

1:00-3:00 Lunch Break / Online Posters // Dining Hall & Zoom Rooms

Aegis: An Agent for Multi-party Privacy Preservation *Rim Ben Salem*

FairCanary: Rapid Continuous Explainable Fairness Avijit Ghosh

Making Human-Like Moral Decisions *Nicholas Mattei*

A Dynamic Decision–Making Framework Promoting Long–Term Fairness Bhaqyashree Puranik

Understanding Decision Subjects' Fairness Perceptions and Retention in repeated Interactions with AI-Based Decision Systems

Meric Altug Gemalmaz

An Ontology for Fairness Metrics *Jade Franklin*

Civil War Twin: Exploring Ethical Challenges in Designing an Educational Face Recognition Application Manisha Kusuma

Dynamic Fleet Management and Household Feedback for Garbage Collection Martin Aleksandrov

Practical Skills Demand Forecasting via Representation Learning of Temporal Dynamics Maysa Macedo

MONDAY, AUGUST 1

No Rage Against the Machines: Threat of Automation Does Not Change Policy Preferences Baobao Zhang

Mimetic Models: Ethical Implications of AI that Acts Like You Solon Barocas

Contrastive Counterfactual Fairness in Algorithmic Decision-Making *Ece Mutlu*

Ordinary People as Moral Heroes and Foes: Digital Role Model Narratives Propagate Social Norms in China's Social Credit System *Mo Chen*

American==White in Multimodal Language-and-Image AI Robert Wolfe

Resume Format, LinkedIn URLs and Other Unexpected Influences on AI Personality Prediction in Hiring: Results of an Audit Alene Rhea, Kelsey Markey, Lauren D'Arinzo, Hilke Schellmann, Mona Sloane, Paul Squires and Julia Stoyanovich

Towards Robust Off-Policy Evaluation via Human Inputs Harvineet Singh

3:00-4:00 Lightning Talk Session 2 // O'Reilly Theatre

How Cognitive Biases Affect XAI-assisted Decision-making: A Systematic Review Astrid Bertrand, Rafik Belloum, James R. Eagan and Winston Maxwell

Racial Disparities in the Enforcement of Marijuana Violations in the US Bradley Butcher, Christopher Robinson, Miri Zilka, Riccardo Fogliato, Carolyn Ashurst and Adrian Weller

Long-term Dynamics of Fairness Intervention in Connection Recommender Systems Nil-Jana Akpinar, Cyrus DiCiccio, Preetam Nandy and Kinjal Basu

The Cost of Ethical AI Development for AI Startups

James Bessen, Stephen Michael Impink and Robert Seamans

Practical Skills Demand Forecasting via Representation Learning of Temporal Dynamics Maysa M G Macedo, Wyatt Clarke, Eli Lucherini, Tyler Baldwin, Dilermando Queiroz, Rogerio de Paula and Subhro Das

Algorithms that "Don't See Color": Measuring Biases in Lookalike and Special Ad Audiences Piotr Sapiezynski, Avijit Ghosh, Levi Kaplan, Alan Mislove and Aaron Rieke

Fairness in Agreement With European Values: An Interdisciplinary Perspective on Al Regulation Alejandra Bringas Colmenarejo, Luca Nannini, Alisa Rieger, Kristen Marie Scott, Xuan Zhao, Gourab K Patro, Gjergji Kasneci and Katharina Kinder-Kurlanda

MONDAY, AUGUST 1

Towards a Feminist Metaethics of Al *Anastasia Siapka*

How Does Predictive Information Affect Human Ethical Preferences? Saumik Narayanan, Guanghui Yu, Wei Tang, Chien-Ju Ho and Ming Yin

Explainability's Gain is Optimality's Loss? — How Explanations Mislead Charles Wan, Rodrigo Belo and Leid Zejnilovic

Counterfactual explanations for prediction and diagnosis in XAI Xinyue Dai, Mark T. Keane, Laurence Shalloo, Elodie Ruelle and Ruth M.J. Byrne

Contrastive Counterfactual Fairness in Algorithmic Decision-Making Ece Mutlu, Ozlem Ozmen Garibay and Niloofar Yousefi

4:00-4:15	Coffee Break // Arco Building
4:15-5:00	Invited Talk 3: Shannon Vallor, University of Edinburgh // O'Reilly Theatre The Al Mirror: Reclaiming our Humanity in an Age of Machine Thinking
5:00-5:15	Q&A
5:15-5:30	Short Break
5:30-7:30	Reception / Poster Session 1 // Arco Buliding

AIES-22 DETAILED PROGRAM

TUESDAY, AUGUST 2

9:30–10:15 Invited Talk 4: Abeba Birhane, Mozilla Foundation // O'Reilly Theatre CANCELLED

The Limits of Fairness

10:15-10:30 Q&A CANCELLED

10:30-10:45 Coffee Break // Arco Building

10:45–11:45 Lightning Talk Session 3 // O'Reilly Theatre

Respect as a Lens for the Design of AI Systems
William Seymour, Max Van Kleek, Reuben Binns and Dave Murray-Rust

Outsider Oversight: Designing a Third Party Audit Ecosystem for Al Governance Inioluwa Deborah Raji, Peggy Xu, Colleen Honiqsberg and Daniel Ho

A Penalty Default Approach to Preemptive Harm Disclosure and Mitigation for AI Systems Rui-Jie Yew and Dylan Hadfield-Menell

A Bio-Inspired Framework for Machine Bias Interpretation *Jake Robertson, Catherine Stinson and Ting Hu*

Algorithmic Fairness and Structural Injustice: Insights from Feminist Political Philosophy *Atoosa Kasirzadeh*

Actual Causality and Responsibility Attribution in Decentralized Partially Observable Markov Decision Processes Stelios Triantafyllou, Adish Singla and Goran Radanovic

Human Autonomy in Algorithmic Management Charlotte Unruh, Charlotte Haid, Fottner Johannes and Tim Büthe

A Survey of the Potential Long-term Impacts of Al Sam Clarke and Jess Whittlestone

Current and Near-Term AI as a Potential Existential Risk Factor Benjamin Bucknall and Shiri Dori-Hacohen

Responsible AI systems: Who are the stakeholders? Advait Deshpande and Helen Sharp

Identifying Bias in Data Using Two-Distribution Hypothesis Tests William Yik, Limnanthes Serafini, Timothy Lindsey and George Montanez

Transparency, Governance and Regulation of Algorithmic Tools Deployed in the Criminal Justice System: a UK Case Study

Miri Zilka, Holli Sargeant and Adrian Weller

TUESDAY, AUGUST 2

Achievement and Fragility of Long-term Equitability Andrea Simonetto and Ivano Notarnicola

Artificial Concepts of Artificial Intelligence: Institutional Compliance and Resistance in AI Startups Amy Winecoff and Elizabeth Watkins

Data-Centric Factors in Algorithmic Fairness Nianyun Li, Naman Goel and Elliott Ash

11:45-12:00 Short Break

12:00–12:45 Invited Talk 5: Bertram Malle, Brown University // O'Reilly Theatre

Beyond Fairness and Explanation: Foundations of Trustworthiness of Artificial Agents

12:45-1:00 Q&A

1:00-3:00 Lunch Break / Online Posters // Dining Hall & Zoom Rooms

A Dynamic Decision–Making Framework Promoting Long–Term Fairness Bhagyashree Puranik

DIME: Fine-grained Interpretations of Multimodal Models via Disentangled Local Explanations *Yiwei Lyu*

Understanding Decision Subjects' Fairness Perceptions and Retention in repeated Interactions with AI-Based Decision Systems

Meric Altug Gemalmaz

An Ontology for Fairness Metrics *Jade Franklin*

Piecemeal knowledge acquisition for computational normative reasoning *Ilaria Canavotto*

Dynamic Fleet Management and Household Feedback for Garbage Collection Martin Aleksandrov

Practical Skills Demand Forecasting via Representation Learning of Temporal Dynamics Maysa Macedo

No Rage Against the Machines: Threat of Automation Does Not Change Policy Preferences Baobao Zhang

Mimetic Models: Ethical Implications of AI that Acts Like You Solon Barocas

Contrastive Counterfactual Fairness in Algorithmic Decision-Making *Ece Mutlu*

TUESDAY, AUGUST 2

From Coded Bias to Existential Threat: Expert Frames and the Epistemic Politics of Al Governance Hendrik Schopmans

Developing Artificial Intelligence for Good: Interdisciplinary research collaborations and the making of ethical AI Shira Zilberstein

Auditing for Diversity using Representative Examples Vijay Keswani

Resume Format, LinkedIn URLs and Other Unexpected Influences on AI Personality Prediction in Hiring: Results of an Audit Alene Rhea, Kelsey Markey, Lauren D'Arinzo, Hilke Schellmann, Mona Sloane, Paul Squires and Julia Stoyanovich

What are People Talking about in #BlackLivesMatter and #StopAsianHate? Exploring and Categorizing Twitter Topics Emerged in Online Social Movements through the Latent Dirichlet Allocation Model Luyao Zhang

Computational Philosophy Hubert Etienne

Fair, Robust, and Data-Efficient Machine Learning in Healthcare Harvineet Singh

Diversity by Design. Balancing the Protection and Inclusion of Users on Online Social Platforms Paula Helm

The danger of citizen domination through algorithmic decision-making in the public sector *Jana Misic*

Evaluating AI-based Public Policies with Social Simulation Jackob Gutmann

3:00-4:00 Lightning Talk Session 4 // O'Reilly Theatre

Mimetic Models: Ethical Implications of AI that Acts Like You Reid McIlroy-Young, Jon Kleinberg, Siddhartha Sen, Solon Barocas and Ashton Anderson

Measuring Gender Bias in Word Embeddings of Gendered Languages Requires Disentangling Grammatical Gender Signals Shiva Omrani Sabbaghi and Aylin Caliskan

Generating Deontic Obligations From Utility-Maximizing Systems Colin Shea-Blymyer and Houssam Abbas

Stochastic Policies in Morally Constrained (C-)SSPs Charles Evans, Claire Benn, Ignacio Ojea Quintana, Pamela Robinson and Sylvie Thiebaux

TUESDAY, AUGUST 2

The worst of both worlds: A comparative analysis of errors in learning from data in psychology and machine learning

Jessica Hullman, Sayash Kapoor, Priyanka Nanayakkara, Andrew Gelman and Arvind Narayanan

SCALES: From Fairness Principles to Constrained Decision-Making Sreejith Balakrishnan, Jianxin Bi and Harold Soh

From Explanation to Recommendation: Ethical Standards for Algorithmic Recourse *Emily Sullivan and Philippe Verreault-Julien*

Investigating Debiasing Effects on Classification and Explainability Marta Marchiori Manerba and Riccardo Guidotti

Equalizing Credit Opportunity in Algorithms: Aligning Algorithmic Fairness Research with U.S. Fair Lending Regulation *I. Elizabeth Kumar, Keegan Hines and John P. Dickerson*

How Algorithms Shape the Distribution of Political Advertising: Case Studies of Facebook, Google, and TikTok Orestis Papakyriakopoulos, Mihir Kshirsagar, Christelle Tessono and Arvind Narayanan

Examining Responsibility and Deliberation in AI Impact Statements and Ethics Reviews David Liu, Priyanka Nanayakkara, Sarah Sakha, Grace Abuhamad, Su Lin Blodgett, Nicholas Diakopoulos, Jessica Hullman and Tina Eliassi-Rad

Judging Instinct Exploitation in Statistical Data Explanations Based on Word Embedding Kang Zhang, Hiroaki Shinden, Tatsuki Mutsuro and Einoshin Suzuki

How Open Source Machine Learning Shapes Al *Max Langenkamp and Daniel Yue*

4:00-4:15	Coffee Break // Arco Building
4:15-5:00	Invited Talk 6: Karen Levy, Cornell University // O'Reilly Theatre RoboTruckers: The Double Threat of AI for Low-Wage Work
5:00-5:15	Q&A
5:15-5:30	Short Break
5:30-7:30	Reception / Poster Session 2 // Arco Buliding

AIES-22 DETAILED PROGRAM

WEDNESDAY, AUGUST 3 🔊



9:30-10:45 Student Lightning Talk Session // O'Reilly Theatre

Bias in Toxicity Detection Paula Reyero Lobo

Artificial Intelligence Diffusion in Public Administration Rohit Madan

Navigating NLP Technologies to Mitigate Harm Eddie Ungless

Towards Understanding Human-Al Relationships *Marisa Tschopp*

Public Attitudes Towards Al *Marina Budic*

Al Alignment Dialogues: An Interactive Approach to Al Alignment in Support Agents *Pei-Yu Chen*

Emotion Recognition Technology: Re-shaping human relationships Alexandra Pregent

Hijacking Epistemic Agency - How Emerging Technologies Threaten our Wellbeing as Knowers John Dorsch

What's (Not) Ideal about Fair Machine Learning? *Otto Sahlgren*

Designing objectives and constraints for AI decision-making Sreejith Balakrishnan

Governing AI Applications to Monitoring and Managing Our Global Environmental Commons *Melissa Chapman*

Tell Me Why: Explaining Black-Box Classification Algorithms Using Most Similar Counterfactuals *Julia Barnett*

Memorization in Language Models *Katherine Lee*

Considering Context as it Relates to Student Agency Conditions in Intelligent Game-Based Learning Environments

Allison Banzon

WEDNESDAY, AUGUST 3

Fairness Implications behind the Technical Assumptions of Machine Learning Angelina Wang

Automated Kantian Ethics Lavanya Singh

Ethics, Transparency, and Accountability for Mass Communication Platforms *Jack Bandy*

How to design smart homes for older persons Nadine Andrea Felber

Comprehensive Human Oversight Framework to ensure accountability over Autonomous Weapon Systems *Ilse Verdiesen*

Understanding algorithmic bias in British English automatic speech recognition *Nina Markl*

Rethinking Counterfactual Visual Explanations *Eoin Delaney*

Exploitation and Algorithmic Pricing *Arianna Dini*

Constructing meaningful Explanations: Logic-based Approaches Laura State

Dialogue Explanation With Reasoning For Al *Yifan Xu*

Examining Trust in Conversational Systems: Conceptual and Empirical Foundations for the Relation Between User Trust, Related Behavior, and System Trustworthiness *Anuschka Schmitt*

Bias in Artificial Intelligence Models in Financial Services Ángel Pavón Pérez

Ethical Recommenders in the Public Library sector Savvina Daniil

Socially-Aware Artificial Intelligence for Fair Mobility Dimitris Michailidis

Artificial Quasi Moral Agency Jen Semler

WEDNESDAY, AUGUST 3

Ethical Design for AI in Medicine *Éric Pardoux*

Al and Legal Personhood: An African Perspective *Meshandren Naidoo*

10:45-11:45 Student Poster Session // Arco Building

11:45–12:00 Closing Remarks // O'Reilly Theatre

12:00–1:00 Farewell Lunch // Dining Hall

AIES-22 SPONSORS

AIES 2022 would like to thank the generous sponsors who allowed us to support Ph.D. students, invited speakers, social events, and to reduce the registration fee.



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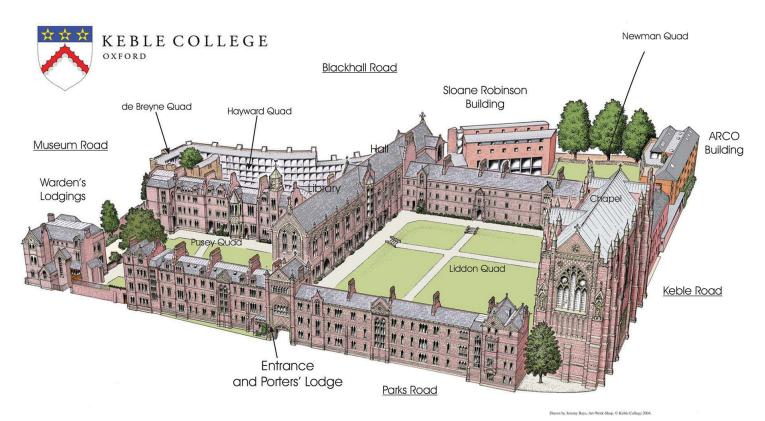


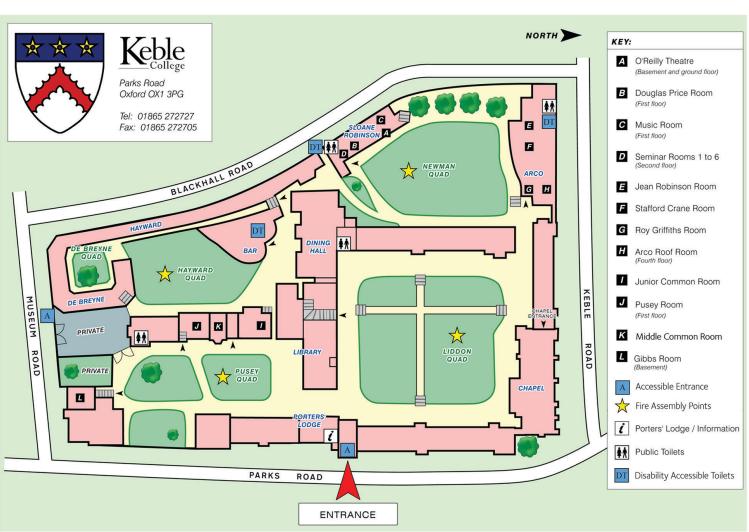
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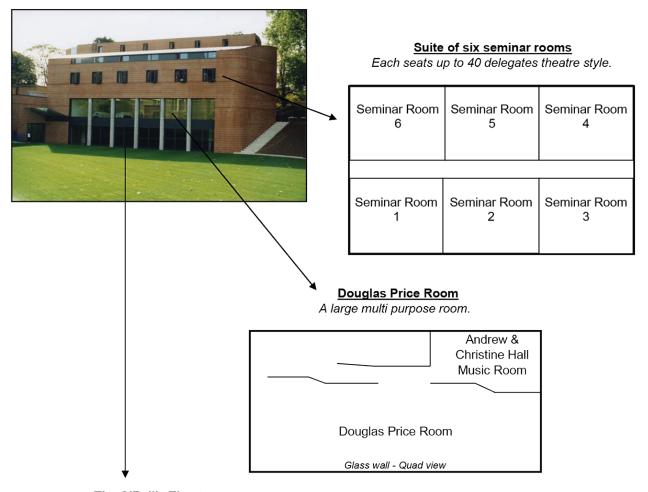






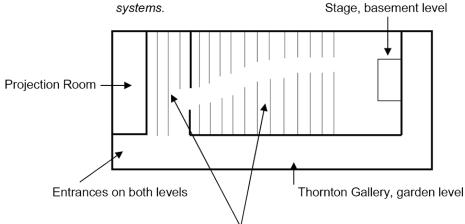
SLOANE ROBINSON BUILDING

Newman Quad - Keble College



The O'Reilly Theatre

Seats 250.Theatre built on two levels, using retractable seating and moveable staging for maximum flexibility.State-of-the-art audio visual and sound



Retractable seating on both garden and basement level