Fair Medicine and Artificial Intelligence: Chances, Challenges, Consequences

3 – 5 March 2021

Center for Gender and Diversity Research (ZGD),
Eberhard Karls Universität Tübingen

Programme
**Wednesday, 03 March 2021**

*12:30*  
Welcome and Introduction  
*Regina Ammicht-Quinn and Renate Baumgartner*

**13:00–14:30**  
**Panel 1: Sociotechnical Perspectives 1 – Analysis**

*Chair: Silja Samerski*

N. Elida Detfurth (York University, Canada)  
**Categorization and Classification in AI Data-driven Applications for Dementia Care: Results from a Thematic Analysis and a Neuroanthropology Approach**

Ann Kristin Kühnen (Technische Universität Dresden, Germany)  
**Black Bodies at Risk. A Sociotechnical Analysis of an Algorithmic System for Health Risk Prediction**

Corinna Bath (Technische Universität Braunschweig) / Silja Samerski (Hochschule Emden Leer, Germany)  
**Sociotechnical Practices of Objectivation: A Framework for Examining AI-based Health Apps for Diagnosis**

**14:30–14:50**  
**Short Break**

**14:50–16:20**  
**Panel 2: Sociotechnical Perspectives 2 – Imagining the Future**

*Chair: Paul Martin*

Karolina Napiwodzka / Kinga Ciereszko / Ewa Nowak (Adam Mickiewicz University, Poznań, Poland)  
**Are Human Presence and Conscience Necessary in Pharmacy? A Thought Experiment**
Paul Martin / Jin Ding (University of Sheffield, UK)
Fixing the Broken Model: AI, Rare Disease Patient Organisations and the Repurposing of Orphan Drugs

Waltraud Ernst (Johannes Kepler Universität, Linz, Austria)
Questioning Standards of Medical Research with AI?

16:20–16:40   Short Break

16:40–18:10   KEYNOTE, Q&A

Corinna Bath (Technische Universität Braunschweig, Germany)
How to Design Socially Just ICT and AI Applications in Medicine? Entangling Feminist STS and Technology Design

Moderation: Marion Müller

THURSDAY, 04 MARCH 2021

12:45   Welcome

13:00–14:30   PANEL 3: HEALTHCARE-RELATED APPLICATIONS AND GENDER

Chair: Eduard Fosch-Villeronga

Cordula Kropp / Karolin Tampe-Mai (Universität Stuttgart, Germany)
Smart Healthcare Systems and Social In/Justice

Sara Morais dos Santos Bruss (Technische Universität Dresden, Germany)
„Surrogate“-Robotics and the Care-Revolution
Eduard Fosch-Villaronga / Tess Verhoef / Hadassah Drukarch / Pranav Khanna (Leiden University, Netherlands)
**Diversity for AI in Medicine: Informing the Governance of AI for Medicine with Knowledge on Gender Biases**

14:30–14:50 Short Break

14:50–16:20 **PANEL 4: EXAMPLES BETWEEN THE GLOBAL NORTH AND THE GLOBAL SOUTH – POSTCOLONIAL PERSPECTIVES**

*Chair: Sara Morais dos Santos Bruss*

Katerina Vlantoni / Aristotle Tympas / Eleni Chatzimichali / Kornilia-Maria Papanastasiou-Toli (National and Kapodistrian University of Athens, Greece)

**Expectations Concerning the AI-Medicine Integration in the European South: The Case of Greece**

Somto Mbelu (Erasmus University Rotterdam, The Netherlands)

**Ethical Concerns in Designing AI-Enabled, Health Insurance Platforms in Nigeria**

Asthha Jaiswal (Central University of Gujarat, Gandhinagar, India)

**Artificial Intelligence in India and Responsible Innovation: A Case Study of Telemedicine in India**

Tereza Hendl / Tiara Roxanne (Ludwig-Maximilians-Universität, München, Germany)

**Digital Surveillance in a Pandemic-response: What Bioethics Ought to Learn from Indigenous Perspectives**

16:20–16:40 Short Break

16:40–17:40 Networking event (on Wonder)

**FRIDAY, 05 MARCH 2021**
Welcome

13:00–14:30 **PANEL 5: DISCOURSES AND KNOWLEDGE PRODUCTION**

*Chair: Robin Williams*

Kevin Wiggert (Technische Universität Berlin, Germany)
**Data-driven Clinical Decision Support Systems**

Vassilis Galanos / Robin Williams (The University of Edinburgh, UK)
**Towards a Responsible Framework. Machine Learning in Radiology: Balancing Between Accuracy and Instability and Learning from Past Pitfalls**

Renate Baumgartner (Eberhard Karls Universität Tübingen, Germany)
**Gordian Knots in Health Equity Through AI**

14:30–14:50 Short Break

14:50–16.20 **PANEL 6: ETHICAL PERSPECTIVES**

*Chair: Christian Lenk*

Christian Lenk (Universität Ulm, Germany)
**Artificial Intelligence for the Adjustment of the Need Principle? Considerations Regarding the Inequality of Health Care in Germany.**

Paola Lopez (Universität Wien, Austria)
Bias Does Not Equal Bias. A Sociotechnical Typology of Bias in Data-based Algorithmic Systems

Thomas Grote (Eberhard Karls Universität Tübingen, Germany) / Geoff Keeling (Stanford University)
**On Algorithmic Fairness in Medical Practice**

Thomas Gremsl / David Schneeberger (University of Graz, Austria)
**Interdisciplinary Comments on the Proposed European Framework of Ethical Aspects of Artificial Intelligence, Robotics and Related Technologies**

16:20–16:40 Short Break

16:40–18.10 **KEYNOTE, Q&A**
Kadija Ferryman (New York University, Tandon School of Engineering, USA)
**Health Equity in Precision Medicine: Ethics and Policy Approaches**

*Moderation: Regina Ammicht-Quinn*

18:10- 18:40 **FINAL DISCUSSION “LESSONS LEARNED”**

*Moderation: Regina Ammicht-Quinn*

*all times given in CET*