

Responsible Data Science – After Workshop Resources

Textbooks, Tutorials & Slides

- Solon Barocas, Moritz Hardt, Arvind Narayanan - [Fairness and machine learning - Limitations and Opportunities](#)
- Shira Mitchell - [Mirror Mirror - Reflections on Quantitative Fairness](#)
- Suresh Venkatasubramanian - [Algorithmic Fairness: Measures, Methods and Representations](#)

Conferences & Workshops

- [ACM FAT*](#)
- [FAT/ML](#)
- ["Recent Developments in Research on Fairness" Workshop](#)
- ["Wrong at the Root: Racial Bias and the Tension Between Numbers and Words in Non-Internet Data" Workshop](#)

Toolkits

- [AIF360, AIX360](#) - IBM
- [What-if Tool](#) - Google
- [Aequitas](#)
- [responsibly](#)
- [Awesome production machine learning](#)

Guidelines and Checklists

- [Montreal Declaration for a Responsible Development of AI](#)
- Google - [Responsible AI Practices](#)
- Google - [People + AI Guidebook](#)
- EU - [Ethics Guidelines for Trustworthy AI](#)

- [Denon](#) - An ethics checklist for data scientists
- Mitchell, M., Wu, S., Zaldivar, A., Barnes, P., Vasserman, L., Hutchinson, B., & Gebru, T. (2019, January). [Model cards for model reporting](#). In Proceedings of the Conference on Fairness, Accountability, and Transparency (pp. 220-229). ACM.
- [AI Blindspot](#)
- [The Institute for Ethical AI & Machine Learning](#)

Videos

- fast.ai - [Algorithmic Bias \(NLP video 16\)](#)
- Arvind Narayanan - ACM FAT* 2018 - [21 Fairness Definitions and their Politics](#)
- Solon Barocas and Moritz Hardt - NIPS2017 - [Tutorial on Fairness in Machine Learning](#)

Technology - Is it the Solution?

- Baumer, E. P., & Silberman, M. (2011, May). [When the implication is not to design \(technology\)](#). In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (pp. 2271-2274). ACM.
- [The problem with tech people who want to solve problems](#) by MIT Media Lab director

Courses

- [Responsible Data Science](#) - NYU - Julia Stoyanovich
- [Foundations of Fairness in ML](#) - Georgia Tech - Jamie Morgenstern
- [Human Contexts and Ethics of Data](#) - University of California, Berkeley - Cathryn Carson

Kaggle Competitions

- [Jigsaw Unintended Bias in Toxicity Classification](#)
- [Google Research - Gendered Pronoun Resolution](#)
- [Google Research - Inclusive Images Challenge](#)