5 December 2022 (Week 49)

Course Introduction

Pedagogy: Lecture and seminar

Readings: N/A

8 December 2022 (Week 49)

Module 1: What is Big Data and Data Ethics? (Data in the Digital Age)

Pedagogy: Seminar

Readings:

* boyd, danah, and Kate Crawford. "Critical Questions for Big Data." *Information, Communication & Society* 15, no. 5 (2012/06/01 2012): 662-79. <https://doi.org/10.1080/1369118X.2012.678878.>
* Floridi, L., & Taddeo, M. (2016). What is data ethics? *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, *374*(2083), 20160360. <https://doi.org/10.1098/rsta.2016.0360>
* Richterich, A. (2018). Chapter 1: Introduction. In *The Big Data Agenda: Data Ethics and Critical Data Studies* (pp. 1-14). University of Westminster Press. <http://www.oapen.org/record/650082>

Video:

Wang, T. (2016.). *The human insights missing from big data.* TED. <https://www.ted.com/talks/tricia_wang_the_human_insights_missing_from_big_data?language=en>

12 December 2022 (Week 50)

Module 2: Ethics in Social Media Research

Pedagogy: Seminar

Readings:

* Fiesler, C., & Proferes, N. (2018). “Participant” Perceptions Of Twitter Research Ethics. *Social Media + Society, 4*(1), 2056305118763366. [doi:10.1177/2056305118763366](https://journals.sagepub.com/doi/10.1177/2056305118763366)
* Hokke, S., Hackworth, N. J., Bennetts, S. K., Nicholson, J. M., Keyzer, P., Lucke, J., . . . Crawford, S. B. (2020). Ethical Considerations In Using Social Media To Engage Research Participants: Perspectives Of Australian Researchers And Ethics Committee Members. *Journal of Empirical Research on Human Research Ethics, 15*(1-2), 12-27. [doi:10.1177/1556264619854629](https://journals.sagepub.com/doi/10.1177/1556264619854629)
* Metcalf, J., & Crawford, K. (2016). Where are human subjects in Big Data research? The emerging ethics divide. *Big Data & Society, 3*(1), 2053951716650211. [doi:10.1177/2053951716650211](https://journals.sagepub.com/doi/full/10.1177/2053951716650211)
* Townsend, L., & Wallace, C. (2016). Social media research: A guide to ethics. *University of Aberdeen, 1*, 16.

14 December 2022 (Week 50)

Module 3: Surveillance and Democracy

Speaker: [Patrick Couch](https://www.linkedin.com/in/couchpatrick/), Business Developer Data & AI at [Solita](https://www.solita.fi/) - Topic: “*Ethics in the light of AI as a psychedelic*”

Pedagogy: Seminar

Readings:

* Bechmann, Anja. "Data as Humans: Representation, Accountability, and Equality in Big Data." Chap. 3 In Human Rights in the Age of Platforms, edited by Rikke Frank J√∏rgensen, 73-94. Cambridge, Mass: The MIT Press, 2019.
* Editorial. (2020). Facial-recognition research needs an ethical reckoning. Nature., 587, 330. doi:https://doi.org/10.1038/d41586-020-03256-7
* Thompson, S. A., Warzel, C., & Kingsbury, A. (2020). 12 Million Phones, One Dataset, Zero Privacy [Article]. *New York Times*, *169*(58584), 2-3. <https://www.nytimes.com/interactive/2019/12/19/opinion/location-tracking-cell-phone.html>

Optional:

* Richterich, Annika. *The Big Data Agenda: Data Ethics and Critical Data Studies.* London: University of Westminster Press, 2018. <http://www.oapen.org/record/650082.>
	+ Chapter 5: *Big Data-Driven Health Surveillance*, P. 71-90

16 December 2022 (Week 50)

Module 4: Anonymization of Data and Data Scraping

Speaker: [Meeri Haataja](https://www.linkedin.com/in/meerihaataja/?originalSubdomain=fi), CEO of [Saidot](https://www.saidot.ai/) – Topic: “*Stakeholder engagement in public sector A*I”"

Pedagogy: Seminar

Readings:

* de Montjoye, Yves-Alexandre, Laura Radaelli, Vivek Kumar Singh, and Alex “Sandy” Pentland. "Unique in the Shopping Mall: On the Reidentifiability of Credit Card Metadata." *Science* 347, no. 6221 (2015): 536. <https://doi.org/10.1126/science.1256297.>
* Gerrard, Y. (2020). What’s in a (pseudo)name? Ethical conundrums for the principles of anonymisation in social media research. *Qualitative Research, 0*(0), 1468794120922070. [doi:10.1177/1468794120922070](https://journals.sagepub.com/doi/full/10.1177/1468794120922070)
* Mancosu, M., & Vegetti, F. (2020). What you can scrape and what is right to scrape: A proposal for a tool to collect public Facebook data. Social Media + Society, 6(3), 2056305120940703. doi:10.1177/2056305120940703
* Van Noorden, R. (2020). The ethical questions that haunt facial-recognition research. Nature, 587(7834), 354-359.

9 January 2023 (Week 2)

Module 5: Discrimination (including algorithmic bias)

Speaker: [Finn Myrstad](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjU_eKctPb7AhXpSvEDHZouBx4QFnoECBkQAQ&url=https%3A%2F%2Fse.linkedin.com%2Fin%2Ffinnmyrstad&usg=AOvVaw1_d66SAJ5Z5NQzo_AGDXlY), Director of Digital Policy, Norwegian Consumer Council, (Forbrukerrådet) – Topic: TBD.

Pedagogy: Seminar

Readings:

* Akter, S., McCarthy, G., Sajib, S., Michael, K., Dwivedi, Y. K., D’Ambra, J., & Shen, K. N. (2021). Algorithmic bias in data-driven innovation in the age of AI. *International Journal of Information Management, 60*, 102387. doi:https://doi.org/10.1016/j.ijinfomgt.2021.102387
* Holm, E. A. (2019). In defense of the black box. Science, 364(6435), 26-27. https://doi.org/doi:10.1126/science.aax0162
* Richterich, Annika. *The Big Data Agenda: Data Ethics and Critical Data Studies.* London: University of Westminster Press, 2018. <http://www.oapen.org/record/650082.>
	+ Chapter 3: *Big Data: Ethical Debates*, P. 45-48 (Algorithmic Bias)

Videos:

* Buolamwini, Joy. “How I’m Fighting Bias in Algorithms”. 2016. Video. <https://www.ted.com/talks/joy_buolamwini_how_i_m_fighting_bias_in_algorithms?language=en>
* O’Neil, Cathy. "The Era of Blind Faith in Big Data Must End." 2017. Video. <https://www.youtube.com/watch?v=_2u_eHHzRto>.

11 January 2023 (Week 2)

Module 6: Ethics, Consent, and Vulnerable Populations

Speaker: [Brandeis Marshall](https://www.brandeismarshall.com/), “*Data Conscience*” author, Professor of Computer Science, Spellman College, Topic – TBD.

Pedagogy: Seminar

Readings:

* Eyal, N. (2014). Using informed consent to save trust. J Med Ethics, 40(7), 437-444. https://doi.org/10.1136/medethics-2012-100490 Mittelstadt, Brent. "The Ethics of Biomedical ‘Big Data’ Analytics." *Philosophy & Technology* 32, no. 1 (2019): 17-21. <https://doi.org/10.1007/s13347-019-00344-z.>
* Jackson, L., Kuhlman, C., Jackson, F., & Fox, P. K. (2019). Including vulnerable populations in the assessment of data from vulnerable populations. *Frontiers in Big Data*, 2, 1-8. <https://doi.org/10.3389/fdata.2019.00019>
* Vayena, Effy, and Alessandro Blasimme. "Health Research with Big Data: Time for Systemic Oversight." *The Journal of Law, Medicine & Ethics* 46, no. 1 (2018): 119-29. <https://doi.org/10.1177/1073110518766026.>

13 January 2023 (Week 2)

Module 7: Privacy

Speaker: [Inese Podgaiska](https://www.linkedin.com/in/inesepodgaiska/), Secretary General at [Association of Nordic Engineers](https://nordicengineers.org/) – Topic: TBD.

Pedagogy: Seminar

Readings:

* Burgess, M. (2022). How GDPR Is Failing. Wired. Retrieved December 13, 2022, from <https://www.wired.co.uk/article/gdpr-2022>
* Mai, Jens-Erik. "Big Data Privacy: The Datafication of Personal Information." *The Information Society* 32, no. 3 (2016/05/26 2016): 192-99. <https://doi.org/10.1080/01972243.2016.1153010.>
* Matsakis, L. (2019). The WIRED Guide to Your Personal Data (and Who Is Using It). *Wired*. Retrieved December 13, 2022, from <https://www.wired.com/story/wired-guide-personal-data-collection/>
* Richterich, Annika. *The Big Data Agenda: Data Ethics and Critical Data Studies.* London: University of Westminster Press, 2018. <https://library.oapen.org/handle/20.500.12657/30155>.
	+ Chapter 3: *Big Data Ethical Debates,* Section: “Privacy and Security”, P. 35-40

17 January 2023 (Week 3)

Module 8: Public Policy: How to fix these issues?

Speaker: [Giovanni Leoni](https://www.linkedin.com/in/giovanni-leoni-15849519/), Global Head of Algorithm and AI Ethics at Inter IKEA Group – Topic: “*Algorithm & AI Ethics in a global enterprise*”

Pedagogy: Seminar

Readings:

* Burrell, J. (2016). How the machine ‘thinks’: Understanding opacity in machine learning algorithms. Big Data & Society, 3(1), 2053951715622512. <https://doi.org/10.1177/2053951715622512>
* Garcia-Murillo, M., & MacInnes, I. (2018). Così fan tutte: A better approach than the right to be forgotten. Telecommunications Policy, 42(3), 227-240. [https://doi.org/https://doi.org/10.1016/j.telpol.2017.12.003](https://doi.org/https%3A//doi.org/10.1016/j.telpol.2017.12.003)
* Narayanan, Arvind, Joanna Huey, and Edward W. Felten. "A Precautionary Approach to Big Data Privacy." In *Data Protection on the Move: Current Developments in Ict and Privacy/Data Protection*, edited by Serge Gutwirth, Ronald Leenes and Paul De Hert, 357-85. Dordrecht: Springer Netherlands, 2016.

Optional:

* Lundgren, B. (2022). An unrealistic and undesirable alternative to the right to be forgotten. *Telecommunications Policy*, 102446. [https://doi.org/https://doi.org/10.1016/j.telpol.2022.102446](https://doi.org/https%3A//doi.org/10.1016/j.telpol.2022.102446)
* Laboratory for Information and Decision Systems. “The real promise of synthetic data." MIT News. (2020). <https://news.mit.edu/2020/real-promise-synthetic-data-1016>

Mittelstadt, B. (2019). Principles alone cannot guarantee ethical AI. *Nature Machine Intelligence*, *1*(11), 501-507. <https://doi.org/10.1038/s42256-019-0114-4>