

# ANTH0017: Advanced Topics in Digital Culture

UG course in Advanced Digital Culture:  
Old code : ANTH3001

View Online



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[1]

» Abildegaard et al (2017) Five recent play dates - EASST:  
<https://easst.net/article/five-recent-play-dates/>.

[2]

23andMe Is Terrifying, but Not for the Reasons the FDA Thinks - Scientific American:  
<https://www.scientificamerican.com/article/23andme-is-terrifying-but-not-for-the-reasons-the-fda-thinks/>.

[3]

A pioneer in predictive policing is starting a troubling new project - The Verge:  
<https://www.theverge.com/2018/4/26/17285058/predictive-policing-predpol-pentagon-ai-racial-bias>.

[4]

Adams, V. 2016. Metrics. Duke University Press.

[5]

After Kinship by Janet Carsten:  
<https://www-cambridge-org.libproxy.ucl.ac.uk/core/books/after-kinship/BF660970EC79E6A4847E76A38CBE1DB9>.

[6]

Alan Travis 2009. Innocent suspects' profiles still reaching DNA database. Guardian. (Oct. 2009).

[7]

Alex Hern 2015. Google says non to French demand to expand right to be forgotten worldwide. Guardian. (Jul. 2015).

[8]

Amoore, L. 2006. Biometric borders: Governing mobilities in the war on terror. *Political Geography*. 25, 3 (Mar. 2006), 336–351. DOI:<https://doi.org/10.1016/j.polgeo.2006.02.001>.

[9]

Amoore, L. 2011. Data Derivatives: On the Emergence of a Security Risk Calculus for Our Times. *Theory, Culture & Society*. 28, 6 (Nov. 2011), 24–43. DOI:<https://doi.org/10.1177/0263276411417430>.

[10]

Anderson, K. et al. 2009. Numbers Have Qualities Too: Experiences with Ethno-Mining. *Ethnographic Praxis in Industry Conference Proceedings*. 2009, 1 (Aug. 2009), 123–140. DOI:<https://doi.org/10.1111/j.1559-8918.2009.tb00133.x>.

[11]

Anna Tsing 2000. The Global Situation. *Cultural Anthropology*. 15, 3 (2000), 327–360.

[12]

Annelise Riles 1998. Infinity within the Brackets. *American Ethnologist*. 25, 3 (1998), 378–398.

[13]

Antonia Walford 2012. Data Moves: Taking Amazonian Climate Science Seriously. *The*

Cambridge Journal of Anthropology. 30, 2 (2012), 101–117.

[14]

Arturo Escobar 1999. After Nature Steps to an Antiessentialist Political Ecology. *Current Anthropology*. 40, 1 (1999), 1–30.

[15]

Asdal, K. 2008. Enacting things through numbers: Taking nature into account/ing. *Geoforum*. 39, 1 (Jan. 2008), 123–132.  
DOI:<https://doi.org/10.1016/j.geoforum.2006.11.004>.

[16]

Barbara Ellen 2017. What I learned from home DNA testing. *Guardian*. (Jul. 2017).

[17]

Beaulieu, A. 2004. From brainbank to database: the informational turn in the study of the brain. *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*. 35, 2 (Jun. 2004), 367–390.  
DOI:<https://doi.org/10.1016/j.shpsc.2004.03.011>.

[18]

Beer, D. 2016. How should we do the history of Big Data? *Big Data & Society*. 3, 1 (Jan. 2016). DOI:<https://doi.org/10.1177/2053951716646135>.

[19]

Beer, D. 2015. Productive measures: Culture and measurement in the context of everyday neoliberalism. *Big Data & Society*. 2, 1 (Jun. 2015).  
DOI:<https://doi.org/10.1177/2053951715578951>.

[20]

Beer, D. and Burrows, R. 2013. Popular Culture, Digital Archives and the New Social Life of

Data. *Theory, Culture & Society*. 30, 4 (Jul. 2013), 47–71.  
DOI:<https://doi.org/10.1177/0263276413476542>.

[21]

Biagioli, M. 2013. Rights or rewards? Changing frameworks of scientific authorship. *Scientific authorship: credit and intellectual property in science*. Routledge. 253–281.

[22]

Bioinformation - Parry and Greenhough:  
<http://politybooks.com/author-books/?authid=Beth%20Greenhough>.

[23]

Birchall, C. 2016. Shareveillance: Subjectivity between open and closed data. *Big Data & Society*. 3, 2 (Nov. 2016). DOI:<https://doi.org/10.1177/2053951716663965>.

[24]

Blok, A. et al. 2017. Stitching together the heterogeneous party: A complementary social data science experiment. *Big Data & Society*. 4, 2 (Dec. 2017).  
DOI:<https://doi.org/10.1177/2053951717736337>.

[25]

Blok, A. and Pedersen, M.A. 2014. Complementary social science? Quali-quantitative experiments in a Big Data world. *Big Data & Society*. 1, 2 (Jul. 2014).  
DOI:<https://doi.org/10.1177/2053951714543908>.

[26]

Boellstorff, T. 2013. Making big data, in theory. *First Monday*. 18, 10 (Oct. 2013).  
DOI:<https://doi.org/10.5210/fm.v18i10.4869>.

[27]

Boellstorff, T. 2012. *Rethinking Digital Anthropology*. Digital anthropology. Berg.

[28]

Boellstorff, T. and Maurer, B. eds. 2015. Boellstorff, T. (2015) Making Big Data,. Data, now bigger and better!. Prickly Paradigm Press.

[29]

Boellstorff, T. and Maurer, B. eds. 2015. Seaver, N. (2015) Bastard Algebra. Data, now bigger and better!. Prickly Paradigm Press.

[30]

Bowker, G. 2005. Databasing the world: biodiversity and the 2000s. Memory practices in the sciences. MIT Press. 107–136.

[31]

Bowker, G.C. 2014. The Theory/Data Thing. International Journal of Communication. 8, (2014).

[32]

Bowker, G.C. and Star, S.L. 1999. Sorting things out: classification and its consequences. MIT Press.

[33]

boyd, danah and Crawford, K. 2012. CRITICAL QUESTIONS FOR BIG DATA. Information, Communication & Society. 15, 5 (Jun. 2012), 662–679.  
DOI:<https://doi.org/10.1080/1369118X.2012.678878>.

[34]

boyd, D. and Crawford, K. 2012. Critical Questions for Big Data. Information, Communication & Society. 15, 5 (Jun. 2012), 662–679.  
DOI:<https://doi.org/10.1080/1369118X.2012.678878>.

[35]

Breiger, R.L. 2015. Scaling down. *Big Data & Society*. 2, 2 (Dec. 2015). DOI:<https://doi.org/10.1177/2053951715602497>.

[36]

Brian Moylan 2018. Grindr was a safe space for gay men. Its HIV status leak betrayed us | Brian Moylan. *Guardian*. (Apr. 2018).

[37]

Browne, S. 2015. *Dark Matters*. Duke University Press.

[38]

Büscher, B. 2016. Nature 2.0: Exploring and theorizing the links between new media and nature conservation. *New Media & Society*. 18, 5 (May 2016), 726–743. DOI:<https://doi.org/10.1177/1461444814545841>.

[39]

Chua, L. and Salmond, A. 2012. Artefacts in anthropology. *SAGE handbook of social anthropology*. SAGE. 101–115.

[40]

Chun, W.H.K. 2008. The Enduring Ephemeral, or the Future Is a Memory. *Critical Inquiry*. 35, 1 (Sep. 2008), 148–171. DOI:<https://doi.org/10.1086/595632>.

[41]

Commentary and Discussion on the Digital Form Curated Collection: 2012. [http://www.culanth.org/curated\\_collections/8-the-digital-form/discussions/15-commentary-and-discussion-on-the-digital-form-curated-collection](http://www.culanth.org/curated_collections/8-the-digital-form/discussions/15-commentary-and-discussion-on-the-digital-form-curated-collection).

[42]

Coopmans, C. 2014. Visual analytics as artful revelation. Representation in scientific practice revisited. C. Coopmans, ed. The MIT Press.

[43]

Couldry, N. and Powell, A. 2014. Big Data from the bottom up. Big Data & Society. 1, 2 (Jul. 2014). DOI:<https://doi.org/10.1177/2053951714539277>.

[44]

D. Haggerty, Richard V. Ericson, K. 2000. The surveillant assemblage. British Journal of Sociology. 51, 4 (Dec. 2000), 605–622. DOI:<https://doi.org/10.1080/00071310020015280>.

[45]

D. Miller 2001. Alienable Gifts and Inalienable Commodities. The empire of things: regimes of value and material culture. School of American Research Press.

[46]

Dalsgaard, S. 2013. The commensurability of carbon. HAU: Journal of Ethnographic Theory. 3, 1 (Jun. 2013), 80–98. DOI:<https://doi.org/10.14318/hau3.1.006>.

[47]

Data, Data, Everywhere, but Who Gets to Interpret It? | EPIC: 2015.  
<https://www.epicpeople.org/data-data-everywhere/>.

[48]

Dawn Nafus 2014. Big Data, Big Questions - This One Does Not Go Up To 11: The Quantified Self Movement as an Alternative Big Data Practice. International Journal of Communication. 8, (2014).

[49]

Dourish, P. and Mazmanian, M. 2013. Media as Material: Information Representations as

Material Foundations for Organizational Practice. How Matter Matters. P.R. Carlile et al., eds. Oxford University Press. 92–118.

[50]

Evelyn Ruppert 2011. Population Objects: Interpassive Subjects. *Sociology*. 45, 2 (2011), 218–233.

[51]

Fairhead, J. et al. 2012. Green Grabbing: a new appropriation of nature? *Journal of Peasant Studies*. 39, 2 (Apr. 2012), 237–261. DOI:<https://doi.org/10.1080/03066150.2012.671770>.

[52]

Ford, H. 2014. Big Data and Small: Collaborations between ethnographers and data scientists. *Big Data & Society*. 1, 2 (Jul. 2014). DOI:<https://doi.org/10.1177/2053951714544337>.

[53]

Fortun, K. et al. 2016. Pushback: Critical data designers and pollution politics. *Big Data & Society*. 3, 2 (Nov. 2016). DOI:<https://doi.org/10.1177/2053951716668903>.

[54]

Franklin, S. 2001. Biologization Re-visited: Kinship Theory. *Relative values: reconfiguring kinship studies*. Duke University Press. 302–325.

[55]

Franklin, S. 2003. Re-thinking nature-culture: Anthropology and the new genetics. *Anthropological Theory*. 3, 1 (Mar. 2003), 65–85. DOI:<https://doi.org/10.1177/1463499603003001752>.

[56]



Fujimara, J. 1999. The Practice of Producing Meaning in Bioinformatics. The practices of human genetics. Kluwer Academic. 49–87.

[57]

Fuller, M. and Goffey, A. 2012. Digital Infrastructures and the Machinery of Topological Abstraction. *Theory, Culture & Society*. 29, 4–5 (Jul. 2012), 311–333.  
DOI:<https://doi.org/10.1177/0263276412450466>.

[58]

Fuller, M. and Goffey, A. 2012. Leak early, leak often. *Evil media*. The MIT Press. 100–104.

[59]

Gabrys, J. et al. 2016. Just good enough data: Figuring data citizenships through air pollution sensing and data stories. *Big Data & Society*. 3, 2 (Nov. 2016).  
DOI:<https://doi.org/10.1177/2053951716679677>.

[60]

Gabrys, J. 2017. Powering the digital: From energy ecologies to electronic environmentalism. *Media and the Ecological Crisis*. R. Maxwell et al., eds. Routledge. 3–18.

[61]

Gabrys, J. 2016. *Program earth: environmental sensing technology and the making of a computational planet*. University of Minnesota Press.

[62]

Garnett, E. 2016. Developing a feeling for error: Practices of monitoring and modelling air pollution data. *Big Data & Society*. 3, 2 (Nov. 2016).  
DOI:<https://doi.org/10.1177/2053951716658061>.

[63]

Geismar, H. and Mohns, W. 2011. Social relationships and digital relationships: rethinking the database at the Vanuatu Cultural Centre. *Journal of the Royal Anthropological Institute*. 17, (May 2011), S133-S155. DOI:<https://doi.org/10.1111/j.1467-9655.2011.01693.x>.

[64]

George E. Marcus and Marcelo Pizarro 2008. The End(s) of Ethnography: Social/Cultural Anthropology's Signature Form of Producing Knowledge in Transition. *Cultural Anthropology*. 23, 1 (2008), 1-14.

[65]

Gerlitz, C. and Lury, C. 2014. Social media and self-evaluating assemblages: on numbers, orderings and values. *Distinktion: Scandinavian Journal of Social Theory*. 15, 2 (May 2014), 174-188. DOI:<https://doi.org/10.1080/1600910X.2014.920267>.

[66]

Gilles Deleuze 1992. Postscript on the Societies of Control. *October*. 59, (1992), 3-7.

[67]

Gitelman, L. 2013. 'Raw data' is an oxymoron. MIT Press.

[68]

Grebowicz, M. 2014. Glacial Time and Lonely Crowds: The social effects of climate change as internet spectacle. *Environmental Humanities*. 5, (2014), 1-11.

[69]

Greenfield, D. (2016) Deep Data: Notes on the n of 1. In 'Quantified: biosensing technologies in everyday life' ed. Dawn Nafus. MIT Press:  
<http://ieeexplore.ieee.org.libproxy.ucl.ac.uk/xpl/ebooks/bookPdfWithBanner.jsp?fileName=7580296.pdf&bkn=7580015&pdfType=chapter>.

[70]

Gregg, M. 2015. *The Gift That Is Not Given*. Data, now bigger and better!. T. Boellstorff and B. Maurer, eds. Prickly Paradigm Press.

[71]

Gross, A. 2011. The economy of social data: exploring research ethics as device. *The Sociological Review*. 59, (Dec. 2011), 113–129.  
DOI:<https://doi.org/10.1111/j.1467-954X.2012.02055.x>.

[72]

Hacking, I. 1990. *The argument. The Taming of Chance*. Cambridge University Press. 1–10.

[73]

Haidy Geismar and William Mohns 2011. Social relationships and digital relationships: rethinking the database at the Vanuatu Cultural Centre. *The Journal of the Royal Anthropological Institute*. 17, (2011).

[74]

Halpern, O. 2015. *Beautiful Data*. Duke University Press.

[75]

Halpern, O. 2014. *Beautiful data: a history of vision and reason since 1945*. Duke University Press.

[76]

Halpern, O. 2014. Cybernetic rationality. *Distinktion: Scandinavian Journal of Social Theory*. 15, 2 (May 2014), 223–238. DOI:<https://doi.org/10.1080/1600910X.2014.923320>.

[77]

Haraway, D. 1997. Chapter 4: Gene.  
*Modest@Witness@Second@Millennium.FemaleMan@Meets@OncoMouse: feminism and*

technoscience. Routledge.

[78]

Haraway, D. 1988. Situated Knowledges: The Science Question in Feminism and the Privilege of Partial Perspective. *Feminist Studies*. 14, 3 (Autumn 1988). DOI:<https://doi.org/10.2307/3178066>.

[79]

Harvey, P. 2012. The Topological Quality of Infrastructural Relation: An Ethnographic Approach. *Theory, Culture & Society*. 29, 4-5 (Jul. 2012), 76-92. DOI:<https://doi.org/10.1177/0263276412448827>.

[80]

Hayles, N.K. 1999. *How we became posthuman: virtual bodies in cybernetics, literature, and informatics*. University of Chicago P.

[81]

Helmreich, S. 2007. Blue-green Capital, Biotechnological Circulation and an Oceanic Imaginary: A Critique of Biopolitical Economy. *BioSocieties*. 2, 3 (Sep. 2007), 287-302. DOI:<https://doi.org/10.1017/S1745855207005753>.

[82]

Helmreich, S. 2002. Kinship in Hypertext. *Relative values: reconfiguring kinship studies*. Duke University Press. 116-143.

[83]

Hilgartner, S. 2012. Selective flows of knowledge in technoscientific interaction: information control in genome research. *The British Journal for the History of Science*. 45, 02 (Jun. 2012), 267-280. DOI:<https://doi.org/10.1017/S0007087412000106>.

[84]

Hippocratic Hacking | Platypus: <http://blog.castac.org/2016/10/hippocratic-hacking/>.

[85]

Hippocratic Hacking | Platypus: <http://blog.castac.org/2016/10/hippocratic-hacking/>.

[86]

Hirsch, E. and Strathern, M. 2004. Transactions and creations: property debates and the stimulus of Melanesia. Berghahn Books.

[87]

Hogan, M. 2015. Data flows and water woes: The Utah Data Center. *Big Data & Society*. 2, 2 (Dec. 2015). DOI:<https://doi.org/10.1177/2053951715592429>.

[88]

Hui, Y. 2012. What is a Digital Object? *Metaphilosophy*. 43, 4 (Jul. 2012), 380–395. DOI:<https://doi.org/10.1111/j.1467-9973.2012.01761.x>.

[89]

Igoe, J. 2010. The spectacle of nature in the global economy of appearances: Anthropological engagements with the spectacular mediations of transnational conservation. *Critique of Anthropology*. 30, 4 (Dec. 2010), 375–397. DOI:<https://doi.org/10.1177/0308275X10372468>.

[90]

Immersion – Taylor C. Nelms – Medium:  
<https://medium.com/@tnelms/immersion-4c103c0fcac5>.

[91]

Isin, E. and Ruppert, E. 2017. Digital Citizenship and Surveillance| Citizen Snowden. *International Journal of Communication*. 11, (2017).

[92]

J. Holt and Patrick Vondereau 2014. Where the Internet Lives: Data Centers as Cloud Infrastructure. Traffic signal timing manual. U.S. Department of Transportation.

[93]

Janet Carsten Ch. 4: The person. After Kinship by Janet Carsten. Cambridge University Press. 83–108.

[94]

Jasanoff, S. 2017. Virtual, visible, and actionable: Data assemblages and the sightlines of justice. *Big Data & Society*. 4, 2 (Dec. 2017).  
DOI:<https://doi.org/10.1177/2053951717724477>.

[95]

Jensen, C.B. and Morita, A. 2015. Infrastructures as Ontological Experiments. *Engaging Science, Technology, and Society*. 1, (Nov. 2015), 81–87.

[96]

John, N.A. 2013. Sharing and Web 2.0: The emergence of a keyword. *New Media & Society*. 15, 2 (Mar. 2013), 167–182. DOI:<https://doi.org/10.1177/1461444812450684>.

[97]

Kaufmann, M. 2015. Resilience 2.0: social media use and (self-)care during the 2011 Norway attacks. *Media, Culture & Society*. 37, 7 (Oct. 2015), 972–987.  
DOI:<https://doi.org/10.1177/0163443715584101>.

[98]

Kelty, C.M. 2012. This is not an article: Model organism newsletters and the question of 'open science'. *BioSocieties*. 7, 2 (Jun. 2012), 140–168.  
DOI:<https://doi.org/10.1057/biosoc.2012.8>.

[99]

Kim Fortun 2004. From Bhopal to the Informating of Environmentalism: Risk Communication in Historical Perspective. *Osiris*. 19, (2004), 283–296.

[100]

Kirstie Ball ; Kevin D. Haggend David Lyon Bruno, Fernanda. (2012) *Surveillance and Participation on Web 2.0*. Routledge Handbook of Surveillance Studies.

[101]

Kitchin, R. 2014. Big Data, new epistemologies and paradigm shifts. *Big Data & Society*. 1, 1 (Apr. 2014). DOI:<https://doi.org/10.1177/2053951714528481>.

[102]

Kitchin, R. 2014. *The data revolution: big data, open data, data infrastructures and their consequences*. SAGE.

[103]

Knox, H. 2015. Carbon, Convertibility, and the Technopolitics of Oil. *Subterranean estates: life worlds of oil and gas*. H. Appel et al., eds. Cornell University Press.

[104]

Laidlaw, J. 2000. A free gift makes no friends. *Journal of the Royal Anthropological Institute*. 6, 4 (Dec. 2000), 617–634. DOI:<https://doi.org/10.1111/1467-9655.00036>.

[105]

Lake, R.W. 2017. Big Data, urban governance, and the ontological politics of hyperindividualism. *Big Data & Society*. 4, 1 (Jun. 2017). DOI:<https://doi.org/10.1177/2053951716682537>.

[106]

Lash, S. 2007. Power after Hegemony: Cultural Studies in Mutation? *Theory, Culture & Society*. 24, 3 (May 2007), 55–78. DOI:<https://doi.org/10.1177/0263276407075956>.

[107]

Latour, B. 1999. Bruno Latour Pandora's Hope Ch 2: Circulating Reference. *Pandora's hope: essays on the reality of science studies*. Harvard University Press. 24–79.

[108]

Latour, B. et al. 2012. 'The whole is always smaller than its parts' - a digital test of Gabriel Tarde's monads. *The British Journal of Sociology*. 63, 4 (Dec. 2012), 590–615. DOI:<https://doi.org/10.1111/j.1468-4446.2012.01428.x>.

[109]

Leach, J. 2011. The Self of the Scientist, Material for the Artist: Emergent Distinctions in an Interdisciplinary Collaboration. *Social Analysis*. 55, 3 (Jan. 2011). DOI:<https://doi.org/10.3167/sa.2011.550308>.

[110]

Lehning, M. et al. Instrumenting the earth: Next-generation sensor networks and environmental science. *The fourth paradigm: data-intensive scientific discovery*. Microsoft Research. 45–51.

[111]

Leonelli, S. 2013. Why the Current Insistence on Open Access to Scientific Data? Big Data, Knowledge Production, and the Political Economy of Contemporary Biology. *Bulletin of Science, Technology & Society*. 33, 1–2 (Feb. 2013), 6–11. DOI:<https://doi.org/10.1177/0270467613496768>.

[112]

Lezaun, J. and Montgomery, C.M. 2015. The Pharmaceutical Commons: Sharing and Exclusion in Global Health Drug Development. *Science, Technology & Human Values*. 40, 1 (Jan. 2015), 3–29. DOI:<https://doi.org/10.1177/0162243914542349>.



[113]

Lippert, I. 2015. Environment as datascape: Enacting emission realities in corporate carbon accounting. *Geoforum*. 66, (Nov. 2015), 126–135.  
DOI:<https://doi.org/10.1016/j.geoforum.2014.09.009>.

[114]

Lupton, D. 2013. Quantifying the body: monitoring and measuring health in the age of mHealth technologies. *Critical Public Health*. 23, 4 (Dec. 2013), 393–403.  
DOI:<https://doi.org/10.1080/09581596.2013.794931>.

[115]

Lupton, D. Self-tracking modes: reflexive self-monitoring and data practices. Social life of big data symposium 2nd June 2015. School of Communications and Arts, Edith Cowan University, Perth Western Australia.

[116]

Lupton, D. 2014. The commodification of patient opinion: the digital patient experience economy in the age of big data. *Sociology of Health & Illness*. 36, 6 (Jul. 2014), 856–869.  
DOI:<https://doi.org/10.1111/1467-9566.12109>.

[117]

Lupton, D. 2016. *The quantified self: a sociology of self-tracking*. Polity Press.

[118]

LYON, D. 2008. BIOMETRICS, IDENTIFICATION AND SURVEILLANCE. *Bioethics*. 22, 9 (Nov. 2008), 499–508. DOI:<https://doi.org/10.1111/j.1467-8519.2008.00697.x>.

[119]

Lyon, D. 2008. Biometrics, Identification and Surveillance. *Bioethics*. 22, 9 (Nov. 2008), 499–508. DOI:<https://doi.org/10.1111/j.1467-8519.2008.00697.x>.

[120]

Lyon, D. 2010. Liquid Surveillance: The Contribution of Zygmunt Bauman to Surveillance Studies1. *International Political Sociology*. 4, 4 (Dec. 2010), 325–338.  
DOI:<https://doi.org/10.1111/j.1749-5687.2010.00109.x>.

[121]

Lyon, D. 2014. Surveillance, Snowden, and Big Data: Capacities, consequences, critique. *Big Data & Society*. 1, 2 (Jul. 2014). DOI:<https://doi.org/10.1177/2053951714541861>.

[122]

M. Fortun 2015. What Toll Pursuit: Affective Assemblages in Genomics and Postgenomics. *Postgenomics*. S.S. Richardson and H. Stevens, eds. Duke University Press.

[123]

Mackenzie, A. 2014. Multiplying numbers differently: an epidemiology of contagious convolution. *Distinktion: Scandinavian Journal of Social Theory*. 15, 2 (May 2014), 189–207.  
DOI:<https://doi.org/10.1080/1600910X.2014.922110>.

[124]

Mackenzie, A. 2003. These Things Called Systems. *Social Studies of Science*. 33, 3 (Jun. 2003), 365–387. DOI:<https://doi.org/10.1177/03063127030333003>.

[125]

Manovich, L. 1999. Database as Symbolic Form. *Convergence: The International Journal of Research into New Media Technologies*. 5, 2 (Jun. 1999), 80–99.  
DOI:<https://doi.org/10.1177/135485659900500206>.

[126]

Marcus, G. 2010. Holism and the Expectations of Critique in Post-1980s Anthropology; Notes and Queries, and an Epilogue. *Experiments in holism: theory and practice in contemporary anthropology*. Wiley-Blackwell. 28–46.

[127]

MARILYN STRATHERN 2001. VIRTUAL SOCIETY? GET REAL! Ashridge 4–5 May 2000: Conference of the 'Virtual Society?: the Social Science of Electronic Technologies' Programme: Abstraction and decontextualisation: an anthropological comment. *The Cambridge Journal of Anthropology*. 22, 1 (2001), 52–66.

[128]

Marres, N. and Weltevrede, E. 2013. Scraping the social? *Journal of Cultural Economy*. 6, 3 (Aug. 2013), 313–335. DOI:<https://doi.org/10.1080/17530350.2013.772070>.

[129]

Marwick, A.E. and boyd, danah 2014. Networked privacy: How teenagers negotiate context in social media. *New Media & Society*. 16, 7 (Nov. 2014), 1051–1067. DOI:<https://doi.org/10.1177/1461444814543995>.

[130]

Maurer, W.M. 2015. Principles of Alliance and Descent for Big Data. *Prickly Paradigm Press/University of Chicago*. 67–86.

[131]

M'charek, A. et al. 2014. Topologies of Race. *Science, Technology, & Human Values*. 39, 4 (Jul. 2014), 468–487. DOI:<https://doi.org/10.1177/0162243913509493>.

[132]

Microsoft Project Natick: Is it really a good idea to dump data centres at the bottom of the sea? | WIRED UK:  
<https://www.wired.co.uk/article/microsoft-data-centre-orkney-sinks-project-natick>.

[133]

Mike Rowe AI profiling: the social and moral hazards of 'predictive' policing. *The Conversation*.

[134]

Mike Savage and Roger Burrows 2007. The Coming Crisis of Empirical Sociology. *Sociology*. 41, 5 (2007), 885–899.

[135]

Nadim, T. 2016. Blind regards: Troubling data and their sentinels. *Big Data & Society*. 3, 2 (Nov. 2016). DOI:<https://doi.org/10.1177/2053951716666301>.

[136]

Nadim, T. 2016. Blind regards: Troubling data and their sentinels. *Big Data & Society*. 3, 2 (Nov. 2016). DOI:<https://doi.org/10.1177/2053951716666301>.

[137]

Nafus, D. 2014. Stuck data, dead data, and disloyal data: the stops and starts in making numbers into social practices. *Distinktion: Scandinavian Journal of Social Theory*. 15, 2 (May 2014), 208–222. DOI:<https://doi.org/10.1080/1600910X.2014.920266>.

[138]

Nafus, D ; Sherman, J This One Does Not Go Up to 11: The Quantified Self Movement as an Alternative Big Data Practice.

[139]

Owen Bowcott 2018. Home Office data exemption sparks fears of further Windrush scandals. *Guardian*. (Apr. 2018).

[140]

Pantzar, M. and Ruckenstein, M. 2015. The heart of everyday analytics: emotional, material and practical extensions in self-tracking market. *Consumption Markets & Culture*. 18, 1 (Jan. 2015), 92–109. DOI:<https://doi.org/10.1080/10253866.2014.899213>.

[141]

Paul Taylor · Whose Property?: Big Medical Data · LRB 8 February 2018:  
<https://www.lrb.co.uk/v40/n03/paul-taylor/whose-property>.

[142]

Poole, D. and Das, V. 2004. Anthropology in the margins of the state. School of American Research Press.

[143]

Porter, T.M. 1995. Trust in numbers: the pursuit of objectivity in science and public life. Princeton University Press.

[144]

Povinelli, E.A. 2011. The Woman on the Other Side of the Wall: Archiving the Otherwise in Postcolonial Digital Archives. *differences*. 22, 1 (Jan. 2011), 146–171.  
DOI:<https://doi.org/10.1215/10407391-1218274>.

[145]

Publications | Sciences Po | MedialabSciences Po | Medialab:  
<http://www.medialab.sciences-po.fr/publication/>.

[146]

Rabinow, P. 1996. Essays on the anthropology of reason. Princeton University Press.

[147]

Report: Police Forced a DNA Testing Company to Share a Customer's Identity in the Golden State Killer Case:  
<https://gizmodo.com/report-police-forced-a-dna-testing-company-to-share-a-1825687924>.

[148]

Richardson, S.S. and Stevens, H. 2015. Postgenomics: perspectives on biology after the genome. Duke University Press.

[149]

Riles, A. 2006. Introduction: in response. Documents: artifacts of modern knowledge. University of Michigan Press. 1–38.

[150]

Riles, A. 2000. The network inside out: Annelise Riles. The University of Michigan Press.

[151]

Riles, A. 2000. The network inside out: Annelise Riles. The University of Michigan Press.

[152]

Roderick, L. 2014. Discipline and Power in the Digital Age: The Case of the US Consumer Data Broker Industry. Critical Sociology. 40, 5 (Sep. 2014), 729–746.  
DOI:<https://doi.org/10.1177/0896920513501350>.

[153]

Rogue Scientists Race to Save Climate Data from Trump | WIRED:  
<https://www.wired.com/2017/01/rogue-scientists-race-save-climate-data-trump/>.

[154]

Rosenberg, D. 2013. Data before the fact. 'Raw data' is an oxymoron. L. Gitelman, ed. The MIT Press.

[155]

Rubio, F.D. and Baert, P. eds. 2012. Leach, J. (2012) 'Step inside: knowledge freely available': The politics of (making) knowledge-objects'. The politics of knowledge. Routledge.

[156]

Ruckenstein, M. 2015. Uncovering Everyday Rhythms and Patterns: Food tracking and new forms of visibility and temporality in health care. *Techno-anthropology in health informatics: methodologies for improving human-technology relations*. L. Botin et al., eds. IOS Press. 28–40.

[157]

Ruckenstein, M. 2014. Visualized and Interacted Life: Personal Analytics and Engagements with Data Doubles. *Societies*. 4, 1 (Feb. 2014), 68–84. DOI:<https://doi.org/10.3390/soc4010068>.

[158]

Ruckenstein, M. 2014. Visualized and Interacted Life: Personal Analytics and Engagements with Data Doubles. *Societies*. 4, 1 (Feb. 2014), 68–84. DOI:<https://doi.org/10.3390/soc4010068>.

[159]

Ruckenstein, M. and Schüll, N.D. 2017. The Datafication of Health. *Annual Review of Anthropology*. 46, 1 (Oct. 2017), 261–278. DOI:<https://doi.org/10.1146/annurev-anthro-102116-041244>.

[160]

Ruppert, E. et al. 2013. Reassembling Social Science Methods: The Challenge of Digital Devices. *Theory, Culture & Society*. 30, 4 (Jul. 2013), 22–46. DOI:<https://doi.org/10.1177/0263276413484941>.

[161]

Ruppert, E. 2012. The Governmental Topologies of Database Devices. *Theory, Culture & Society*. 29, 4–5 (Jul. 2012), 116–136. DOI:<https://doi.org/10.1177/0263276412439428>.

[162]

Ruppert, E. and Savage, M. 2011. Transactional politics. *The Sociological Review*. 59, (Dec. 2011), 73–92. DOI:<https://doi.org/10.1111/j.1467-954X.2012.02057.x>.

[163]

S. Day and C. Lury 2016. Biosensing: Tracking Persons. *Quantified: Biosensing Technologies in Everyday Life*. MIT Press.

[164]

Sabina Leonelli 2015. What Counts as Scientific Data? A Relational Framework. *Philosophy of Science*. 82, 5 (2015), 810–821.

[165]

Salmond, A.J.M. 2013. Transforming translations (part I). *HAU: Journal of Ethnographic Theory*. 3, 3 (Dec. 2013). DOI:<https://doi.org/10.14318/hau3.3.002>.

[166]

Salmond, A.J.M. 2013. Transforming translations (part I): 'The owner of these bones'. *HAU: Journal of Ethnographic Theory*. 3, 3 (Dec. 2013), 1–32. DOI:<https://doi.org/10.14318/hau3.3.002>.

[167]

Seaver, N. 2017. Algorithms as culture: Some tactics for the ethnography of algorithmic systems. *Big Data & Society*. 4, 2 (Dec. 2017). DOI:<https://doi.org/10.1177/2053951717738104>.

[168]

Seaver, N. 2015. The nice thing about context is that everyone has it. *Media, Culture & Society*. 37, 7 (Oct. 2015), 1101–1109. DOI:<https://doi.org/10.1177/0163443715594102>.

[169]

Seaver, N. 2015. The nice thing about context is that everyone has it. *Media, Culture & Society*. 37, 7 (Oct. 2015), 1101–1109. DOI:<https://doi.org/10.1177/0163443715594102>.



[170]

Shackley, S. and Wynne, B. 1996. Representing Uncertainty in Global Climate Change Science and Policy: Boundary-Ordering Devices and Authority. *Science, Technology & Human Values*. 21, 3 (Jul. 1996), 275–302.

DOI:<https://doi.org/10.1177/016224399602100302>.

[171]

Sharma, A. and Gupta, A. 2006. Sharma, A. and Gupta, A. (2006) Introduction: Re-thinking Theories of the State in an Age of Globalization. *The anthropology of the state: a reader*. Blackwell.

[172]

Sharp, L.A. 2000. The Commodification of the Body and its Parts. *Annual Review of Anthropology*. 29, 1 (Oct. 2000), 287–328.

DOI:<https://doi.org/10.1146/annurev.anthro.29.1.287>.

[173]

Singer, N. 2015. From knowing yourself to prodding yourself. *The New York Times*. (Apr. 2015).

[174]

Starosielski, N. 2015. *The undersea network*. Duke University Press.

[175]

Stefan Helmreich 2011. From Spaceship Earth to Google Ocean: Planetary Icons, Indexes, and Infrastructures. *Social Research*. 78, 4 (2011), 1211–1242.

[176]

Steinmetz, G. 1999. Mitchell, T. (1999) Society, Economy and the State Effect. In *State/Culture: State Formation after the Cultural Turn*. State/culture: state-formation after the cultural turn. Cornell University Press.

[177]

Strathern, M. 1992. *After nature: English kinship in the late twentieth century*. Cambridge University Press.

[178]

Strathern, M. 1999. Chapter 1. Property, substance and effect: anthropological essays on persons and things. Athlone.

[179]

Strathern, M. 2005. Chapter 5: Losing (out on) Intellectual Resources. *Kinship, Law and the Unexpected: Relatives are Always a Surprise*. Cambridge University Press. 111–134.

[180]

Strathern, M. 2000. Environments within: An ethnographic commentary on scale. *Culture, landscape, and the environment: the Linacre lectures, 1997*. Oxford University Press. 44–71.

[181]

Strathern, M. 2012. Gifts money cannot buy. *Social Anthropology*. 20, 4 (Nov. 2012), 397–410. DOI:<https://doi.org/10.1111/j.1469-8676.2012.00224.x>.

[182]

Strathern, M. 2002. *On Space and Depth. Complexities: social studies of knowledge practices*. Duke University Press.

[183]

Strathern, M. 2004. *Partial connections*. AltaMira Press.

[184]

Strathern, M. 1992. Parts and wholes: refiguring relationships in a post-plural world. *Conceptualizing society*. Routledge. 75–106.

[185]

Strathern, M. 1987. The Limits of Auto-anthropology. *Anthropology at home*. Tavistock Publications. 16–37.

[186]

Strathern, M. Abstraction and Decontextualisation; an anthropological comment: <http://virtualsociety.sbs.ox.ac.uk/GRpapers/strathern.htm>.

[187]

Strathern, M. and University of Cambridge. Department of Social Anthropology 1995. *The relation: issues in complexity and scale*. Prickly Pear Press.

[188]

Striphas, T. 2015. Algorithmic culture. *European Journal of Cultural Studies*. 18, 4–5 (Aug. 2015), 395–412. DOI:<https://doi.org/10.1177/1367549415577392>.

[189]

Studying up: the ethnography of technologists: 2014. <http://ethnographymatters.net/blog/2014/03/10/studying-up/>.

[190]

Take an online DNA test and you could be revealing far more than you realise | University of Oxford:  
<http://www.ox.ac.uk/research/take-online-dna-test-and-you-could-be-revealing-far-more-yo>  
u-realise.

[191]

Thacker, E. 2003. What is Biomedica? *Configurations*. 11, 1 (2003), 47–79.

DOI:<https://doi.org/10.1353/con.2004.0014>.

[192]

The Anxieties of Big Data – The New Inquiry:  
<https://thenewinquiry.com/the-anxieties-of-big-data/>.

[193]

The Difference Between Big Data and a Lot of Data: 21AD. <http://data-informed.com/>.

[194]

The End of Theory: The Data Deluge Makes the Scientific Method Obsolete:  
<http://www.wired.com/2008/06/pb-theory/>.

[195]

The frightening promise of self-tracking pills - The Verge:  
<https://www.theverge.com/2015/10/7/9466121/proteus-digital-pill-tracking-privacy-quantified-self>.

[196]

The Healing Power of Your Own Medical Records - The New York Times:  
[http://www.nytimes.com/2015/04/01/technology/the-healing-power-of-your-own-medical-data.html?\\_r=0](http://www.nytimes.com/2015/04/01/technology/the-healing-power-of-your-own-medical-data.html?_r=0).

[197]

The Healing Power of Your Own Medical Records - The New York Times:  
[http://www.nytimes.com/2015/04/01/technology/the-healing-power-of-your-own-medical-data.html?\\_r=0](http://www.nytimes.com/2015/04/01/technology/the-healing-power-of-your-own-medical-data.html?_r=0).

[198]

The Postgenomic Condition: Ethics, Justice, and Knowledge after the Genome, Reardon:  
<https://www.press.uchicago.edu/ucp/books/book/chicago/P/bo22726485.html>.

[199]

The World of Indicators edited by Richard Rottenburg:

<https://www-cambridge-org.libproxy.ucl.ac.uk/core/books/world-of-indicators/C7903E69E0329A256EF02C3CB5C918ED>.

[200]

There's life in the old Pause yet | Watts Up With That?

<https://wattsupwiththat.com/2015/10/08/theres-life-in-the-old-pause-yet/>.

[201]

This one does not go up to 11 - Nafus and Sherman:

<http://ijoc.org/index.php/ijoc/article/viewFile/2170/1157>.

[202]

Tollefson, J. 2015. Climate-change 'hiatus' disappears with new data. *Nature*. (Jun. 2015).

DOI:<https://doi.org/10.1038/nature.2015.17700>.

[203]

Tsing, Anna 2013. Sorting out commodities: How capitalist value is made through gifts.

HAU : Journal of Ethnographic Theory. 3, 1 (2013), 21–43.

[204]

Tutton, R. and Prainsack, B. 2011. Enterprising or altruistic selves? Making up research

subjects in genetics research. *Sociology of Health & Illness*. 33, 7 (Nov. 2011), 1081–1095.

DOI:<https://doi.org/10.1111/j.1467-9566.2011.01348.x>.

[205]

Universitetet i Oslo 2005. State formation: anthropological perspectives. Pluto Press.

[206]

Van Dijck, J. 2000. Digital cadavers: the visible human project as anatomical theater. *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences*. 31, 2 (Jun. 2000), 271–285.  
DOI:[https://doi.org/10.1016/S1369-8486\(99\)00020-5](https://doi.org/10.1016/S1369-8486(99)00020-5).

[207]

Van Dijck, J. and Poell, T. 2016. Understanding the promises and premises of online health platforms. *Big Data & Society*. 3, 1 (Jan. 2016).  
DOI:<https://doi.org/10.1177/2053951716654173>.

[208]

Verran, H. et al. 2007. Designing digital knowledge management tools with Aboriginal Australians. *Digital Creativity*. 18, 3 (Jul. 2007), 129–142.  
DOI:<https://doi.org/10.1080/14626260701531944>.

[209]

Verran, H. 2014. Number as Generative Device. *Inventive methods: the happening of the social*. C. Lury and N. Wakeford, eds. Routledge.

[210]

Verran, H. 2009. On assemblage. *Journal of Cultural Economy*. 2, 1–2 (Jul. 2009), 169–182.  
DOI:<https://doi.org/10.1080/17530350903064188>.

[211]

Verran, H. 2011. The changing lives of measures and values: from centre stage in the fading 'disciplinary' society to pervasive background instrument in the emergent 'control' society. *The Sociological Review*. 59, (Dec. 2011), 60–72.  
DOI:<https://doi.org/10.1111/j.1467-954X.2012.02059.x>.

[212]

Vertesi, J. 2014. My Experiment Opting Out of Big Data Made Me Look Like a Criminal. *Time.com*. (2014), 1–1.

[213]

Vonderau, A. 2018. Scaling the Cloud: Making State and Infrastructure in Sweden. *Ethnos*. 84, 4 (May 2018), 698–712. DOI:<https://doi.org/10.1080/00141844.2018.1471513>.

[214]

We May Own Our Data, But Facebook Has a Duty to Protect It | The New Yorker:  
<https://www.newyorker.com/tech/elements/we-may-own-our-data-but-facebook-has-a-duty-to-protect-it>.

[215]

Weiner, A.B. 1992. Inalienable possessions: The forgotten dimension. *Inalienable possessions: the paradox of keeping-while-giving*. University of California Press. 23–43.

[216]

Weiner, A.B. 1992. Reconfiguring Exchange Theory: The Maori Hau. *Inalienable possessions: the paradox of keeping-while-giving*. University of California Press.

[217]

Wendy F. Hsu 2016. Hsu, W.F (2016) A Performative Digital Ethnography. In 'The Routledge Companion to Digital Ethnography' eds. Hjorth, Horst, Galloway, Bell. Routledge. (2016). DOI:<https://doi.org/10.4324/9781315673974.ch4>.

[218]

What's Not Included in Facebook's 'Download Your Data' | WIRED:  
<https://www.wired.com/story/whats-not-included-in-facebooks-download-your-data/>.

[219]

Whittington, J. 2016. Carbon as a Metric of the Human. *PoLAR: Political and Legal Anthropology Review*. 39, 1 (May 2016), 46–63. DOI:<https://doi.org/10.1111/plar.12130>.

[220]

Why Big Data Needs Thick Data – Ethnography Matters – Medium:

<https://medium.com/ethnography-matters/why-big-data-needs-thick-data-b4b3e75e3d7>.

[221]

With genetic testing, I gave my parents the gift of divorce - Vox:

<http://www.vox.com/2014/9/9/5975653/with-genetic-testing-i-gave-my-parents-the-gift-of-divorce-23andme>.

[222]

With genetic testing, I gave my parents the gift of divorce - Vox: 2014.

<http://www.vox.com/2014/9/9/5975653/with-genetic-testing-i-gave-my-parents-the-gift-of-divorce-23andme>.

[223]

Abramson, Allen. (2016) What in/is the world in/of Big Data? Theorizing the Contemporary, Cultural Anthropology.

[224]

Captivating Algorithms: recommender systems as traps.

[225]

Dourish, P. (2014) No SQL: The Shifting Materialities of Databases. Computational Culture: a Journal of Software Studies. Issue 4.

[226]

Lupton, D. 2016 You are Your Data: Self-tracking Practices and Concepts of Data.

[227]



2015. To the Cloud: Big Data in a Turbulent World. *Contemporary Sociology: A Journal of Reviews*. 44, 3 (May 2015), 436–437. DOI:<https://doi.org/10.1177/0094306115579192c>.

[228]

Yuval Noah Harari on big data, Google and the end of free will. *Financial Times*.