

ANTH3001: Advanced Topics in Digital Culture

UG course in Advanced Digital Culture

View Online



Adams, Vincanne. 2016. *Metrics*. Duke University Press.

Amoore, L. 2011. 'Data Derivatives: On the Emergence of a Security Risk Calculus for Our Times'. *Theory, Culture & Society* 28(6):24-43. doi: 10.1177/0263276411417430.

Amoore, Louise. 2006. 'Biometric Borders: Governing Mobilities in the War on Terror'. *Political Geography* 25(3):336-51. doi: 10.1016/j.polgeo.2006.02.001.

Anderson, Chris. n.d. 'The End of Theory: The Data Deluge Makes the Scientific Method Obsolete'. *Wired*. Retrieved (<http://www.wired.com/2008/06/pb-theory/>).

Anderson, Ken, Dawn Nafus, Tye Rattenbury, and Ryan Aipperspach. 2009. 'Numbers Have Qualities Too: Experiences with Ethno-Mining'. *Ethnographic Praxis in Industry Conference Proceedings* 2009(1):123-40. doi: 10.1111/j.1559-8918.2009.tb00133.x.

Anna Tsing. 2000. 'The Global Situation'. *Cultural Anthropology* 15(3):327-60.

Annelise Riles. 1998. 'Infinity within the Brackets'. *American Ethnologist* 25(3):378-98.

Anon. 2015. 'To the Cloud: Big Data in a Turbulent World'. *Contemporary Sociology: A Journal of Reviews* 44(3):436-37. doi: 10.1177/0094306115579192c.

Anon. n.d.-a. '» Abildegaard et al (2017) Five Recent Play Dates - EASST'. Retrieved (<https://easst.net/article/five-recent-play-dates/>).

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

Anon. n.d.-c. 'Abramson, Allen. (2016) What in/Is the World in/of Big Data? Theorizing the Contemporary, *Cultural Anthropology*'.

Anon. n.d.-d. 'After Kinship by Janet Carsten'. Retrieved (<https://www-cambridge-org.libproxy.ucl.ac.uk/core/books/after-kinship/BF660970EC79E6A4847E76A38CBE1DB9>).

Anon. n.d.-e. 'Dourish, P. (2014) No SQL: The Shifting Materialities of Databases. *Computational Culture: A Journal of Software Studies*. Issue 4.'

Anon. n.d.-f. 'Greenfield, D. (2016) Deep Data: Notes on the n of 1. In "Quantified:

- Biosensing Technologies in Everyday Life" Ed. Dawn Nafus. MIT Press'. Retrieved (<http://ieeexplore.ieee.org.libproxy.ucl.ac.uk/xpl/ebooks/bookPdfWithBanner.jsp?fileName=7580296.pdf&bkn=7580015&pdfType=chapter>).
- Anon. n.d.-g. 'Hippocratic Hacking | Platypus'. Retrieved (<http://blog.castac.org/2016/10/hippocratic-hacking/>).
- Anon. n.d.-h. 'Lupton, D. 2016 You Are Your Data: Self-Tracking Practices and Concepts of Data.'
- Anon. n.d.-i. 'Publications | Sciences Po | MedialabSciences Po | Medialab'. Retrieved (<http://www.medialab.sciences-po.fr/publication/>).
- Anon. n.d.-j. 'Strathern, M. Abstraction and Decontextualisation; an Anthropological Comment'. Retrieved (<http://virtualsociety.sbs.ox.ac.uk/GRpapers/strathern.htm>).
- Anon. n.d.-k. 'The Healing Power of Your Own Medical Records - The New York Times'. Retrieved (http://www.nytimes.com/2015/04/01/technology/the-healing-power-of-your-own-medical-data.html?_r=0).
- Anon. n.d.-l. 'The World of Indicators Edited by Richard Rottenburg'. Retrieved (<https://www-cambridge-org.libproxy.ucl.ac.uk/core/books/world-of-indicators/C7903E69E0329A256EF02C3CB5C918ED>).
- Anon. n.d.-m. 'Why Big Data Needs Thick Data – Ethnography Matters – Medium'. Retrieved (<https://medium.com/ethnography-matters/why-big-data-needs-thick-data-b4b3e75e3d7>).
- Anon. n.d.-n. 'With Genetic Testing, I Gave My Parents the Gift of Divorce - Vox'. Retrieved (<http://www.vox.com/2014/9/9/5975653/with-genetic-testing-i-gave-my-parents-the-gift-of-divorce-23andme>).
- Antonia Walford. 2012. 'Data Moves: Taking Amazonian Climate Science Seriously'. *The Cambridge Journal of Anthropology* 30(2):101–17.
- Arturo Escobar. 1999. 'After Nature Steps to an Antiessentialist Political Ecology'. *Current Anthropology* 40(1):1–30.
- Asdal, Kristin. 2008. 'Enacting Things through Numbers: Taking Nature into Account/Ing'. *Geoforum* 39(1):123–32. doi: 10.1016/j.geoforum.2006.11.004.
- Beaulieu, Anne. 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):367–90. doi: 10.1016/j.shpsc.2004.03.011.
- Beer, D., and R. Burrows. 2013. 'Popular Culture, Digital Archives and the New Social Life of Data'. *Theory, Culture & Society* 30(4):47–71. doi: 10.1177/0263276413476542.
- Beer, David. 2015. 'Productive Measures: Culture and Measurement in the Context of

Everyday Neoliberalism'. *Big Data & Society* 2(1). doi: 10.1177/2053951715578951.

Beer, David. 2016. 'How Should We Do the History of Big Data?' *Big Data & Society* 3(1). doi: 10.1177/2053951716646135.

Biagioli, M. 2013. 'Rights or Rewards? Changing Frameworks of Scientific Authorship'. Pp. 253–81 in *Scientific authorship: credit and intellectual property in science*. New York: Routledge.

Birchall, Clare. 2016. 'Shareveillance: Subjectivity between Open and Closed Data'. *Big Data & Society* 3(2). doi: 10.1177/2053951716663965.

Blok, A., and M. A. Pedersen. 2014. 'Complementary Social Science? Quali-Quantitative Experiments in a Big Data World'. *Big Data & Society* 1(2). doi: 10.1177/2053951714543908.

Boellstorff, T. 2012. 'Rethinking Digital Anthropology'. in *Digital anthropology*. London: Berg.

Boellstorff, Tom. 2013. 'Making Big Data, in Theory'. *First Monday* 18(10). doi: 10.5210/fm.v18i10.4869.

Boellstorff, Tom, and Bill Maurer, eds. 2015a. 'Boellstorff, T. (2015) Making Big Data',. in *Data, now bigger and better!*. Vol. Paradigm. Chicago: Prickly Paradigm Press.

Boellstorff, Tom, and Bill Maurer, eds. 2015b. 'Seaver, N. (2015) Bastard Algebra'. in *Data, now bigger and better!*. Vol. Paradigm. Chicago: Prickly Paradigm Press.

Bowker, G. 2005. 'Databasing the World: Biodiversity and the 2000s'. Pp. 107–36 in *Memory practices in the sciences*. Vol. *Inside technology*. Cambridge, Mass: MIT Press.

Bowker, Geoffrey C. 2014. 'The Theory/Data Thing'. *International Journal of Communication* 8.

Bowker, Geoffrey C., and Susan Leigh Star. 1999. *Sorting Things out: Classification and Its Consequences*. Vol. *Inside technology*. Cambridge, Mass: MIT Press.

boyd, Danah, and Kate Crawford. 2012. 'Critical Questions for Big Data'. *Information, Communication & Society* 15(5):662–79. doi: 10.1080/1369118X.2012.678878.

Breiger, R. L. 2015. 'Scaling Down'. *Big Data & Society* 2(2). doi: 10.1177/2053951715602497.

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

Büscher, Bram. 2016. 'Nature 2.0: Exploring and Theorizing the Links between New Media and Nature Conservation'. *New Media & Society* 18(5):726–43. doi: 10.1177/1461444814545841.

Candea, Matei. 2007. 'Arbitrary Locations: In Defence of the Bounded Field-Site'. *Journal of the Royal Anthropological Institute* 13(1):167–84. doi: 10.1111/j.1467-9655.2007.00419.x.

- Chua, L., and A. Salmond. 2012. 'Artefacts in Anthropology'. Pp. 101–15 in SAGE handbook of social anthropology. SAGE.
- Chun, Wendy Hui Kyong. 2008. 'The Enduring Ephemeral, or the Future Is a Memory'. *Critical Inquiry* 35(1):148–71. doi: 10.1086/595632.
- Coopmans, Cateljine. 2014. 'Visual Analytics as Artful Revelation'. in *Representation in scientific practice revisited*. Vol. Inside technology, edited by C. Coopmans. Cambridge, Massachusetts: The MIT Press.
- Couldry, N., and A. Powell. 2014. 'Big Data from the Bottom Up'. *Big Data & Society* 1(2). doi: 10.1177/2053951714539277.
- D. Haggerty, Richard V. Ericson, Kevin. 2000. 'The Surveillant Assemblage'. *British Journal of Sociology* 51(4):605–22. doi: 10.1080/00071310020015280.
- D. Miller. 2001. 'Alienable Gifts and Inalienable Commodities'. in *The empire of things: regimes of value and material culture*. Vol. School of American Research advanced seminar series. Santa Fe, N.M.: School of American Research Press.
- Dalsgaard, Steffen. 2013. 'The Commensurability of Carbon'. *HAU: Journal of Ethnographic Theory* 3(1):80–98. doi: 10.14318/hau3.1.006.
- Dalsgaard, Steffen, and Morten Nielsen. 2013. 'Introduction: Time and the Field'. *Social Analysis* 57(1):1–19. doi: 10.3167/sa.2013.570101.
- 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.
- Doe, George. 2014. 'With Genetic Testing, I Gave My Parents the Gift of Divorce - Vox'. *Vox Genetics*. Retrieved (<http://www.vox.com/2014/9/9/5975653/with-genetic-testing-i-gave-my-parents-the-gift-of-divorce-23andme>).
- Elizabeth A. Povinelli. 2011. 'The Woman on the Other Side of the Wall: Archiving the Otherwise in Postcolonial Digital Archives'. *Differences: A Journal Of Feminist Cultural Studies* 22(1):146–71. doi: 10.1215/10407391-1218274.
- Emily Martin. 1992. 'The End of the Body?' *American Ethnologist* 19(1):121–40.
- Evelyn Ruppert. 2011. 'Population Objects: Interpassive Subjects'. *Sociology* 45(2):218–33.
- Fairhead, James, Melissa Leach, and Ian Scoones. 2012. 'Green Grabbing: A New Appropriation of Nature?' *Journal of Peasant Studies* 39(2):237–61. doi: 10.1080/03066150.2012.671770.
- Faubion, James D., and George E. Marcus. 2009. *Fieldwork Is Not What It Used to Be: Learning Anthropology's Method in a Time of Transition*. Ithaca: Cornell University Press.
- Ford, H. 2014. 'Big Data and Small: Collaborations between Ethnographers and Data

Scientists'. *Big Data & Society* 1(2). doi: 10.1177/2053951714544337.

Fortun, Kim, Lindsay Poirier, Alli Morgan, Brandon Costelloe-Kuehn, and Mike Fortun. 2016. 'Pushback: Critical Data Designers and Pollution Politics'. *Big Data & Society* 3(2). doi: 10.1177/2053951716668903.

Franklin, S. 2001. 'Biologization Re-Visited: Kinship Theory'. Pp. 302–25 in *Relative values: reconfiguring kinship studies*. Durham [N.C.]: Duke University Press.

Franklin, S. 2003. 'Re-Thinking Nature-Culture: Anthropology and the New Genetics'. *Anthropological Theory* 3(1):65–85. doi: 10.1177/1463499603003001752.

Fujimara, J. 1999. 'The Practice of Producing Meaning in Bioinformatics'. Pp. 49–87 in *The practices of human genetics*. Vol. *Sociology of the sciences*. Dordrecht: Kluwer Academic.

Fuller, M., and A. Goffey. 2012. 'Digital Infrastructures and the Machinery of Topological Abstraction'. *Theory, Culture & Society* 29(4–5):311–33. doi: 10.1177/0263276412450466.

Fuller, M, and A. Goffey. 2012. 'Leak Early, Leak Often'. Pp. 100–104 in *Evil media*. Cambridge, Massachusetts: The MIT Press.

Gabrys, Jennifer. 2016. *Program Earth: Environmental Sensing Technology and the Making of a Computational Planet*. Vol. *Electronic mediations*. Minneapolis: University of Minnesota Press.

Gabrys, Jennifer. 2017. 'Powering the Digital: From Energy Ecologies to Electronic Environmentalism'. Pp. 3–18 in *Media and the Ecological Crisis*, edited by R. Maxwell, J. Raundalen, and N. L. Vestberg. London: Routledge.

Gabrys, Jennifer, Helen Pritchard, and Benjamin Barratt. 2016. 'Just Good Enough Data: Figuring Data Citizenships through Air Pollution Sensing and Data Stories'. *Big Data & Society* 3(2). doi: 10.1177/2053951716679677.

Garnett, Emma. 2016. 'Developing a Feeling for Error: Practices of Monitoring and Modelling Air Pollution Data'. *Big Data & Society* 3(2). doi: 10.1177/2053951716658061.

Geismar, Haidy, and William Mohns. 2011. 'Social Relationships and Digital Relationships: Rethinking the Database at the Vanuatu Cultural Centre'. *Journal of the Royal Anthropological Institute* 17:S133–55. doi: 10.1111/j.1467-9655.2011.01693.x.

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):1–14.

Gerlitz, Carolin, and Celia Lury. 2014. 'Social Media and Self-Evaluating Assemblages: On Numbers, Orderings and Values'. *Distinktion: Scandinavian Journal of Social Theory* 15(2):174–88. doi: 10.1080/1600910X.2014.920267.

Gilles Deleuze. 1992. 'Postscript on the Societies of Control'. *October* 59:3–7.

Gitelman, Lisa. 2013. 'Raw Data' Is an Oxymoron. Vol. *Infrastructures series*. Cambridge, Mass: MIT Press.

- Grebowicz, Margret. 2014. 'Glacial Time and Lonely Crowds: The Social Effects of Climate Change as Internet Spectacle'. *Environmental Humanities* 5:1-11.
- Gregg, M. 2015. 'The Gift That Is Not Given'. in *Data, now bigger and better!*. Vol. Paradigm, edited by T. Boellstorff and B. Maurer. Chicago: Prickly Paradigm Press.
- Gross, Ana. 2011. 'The Economy of Social Data: Exploring Research Ethics as Device'. *The Sociological Review* 59:113-29. doi: 10.1111/j.1467-954X.2012.02055.x.
- Hacking, I. 1990. 'The Argument'. Pp. 1-10 in *The Taming of Chance*. Vol. Ideas in Context. Cambridge: Cambridge University Press.
- Halpern, Orit. 2014a. *Beautiful Data: A History of Vision and Reason since 1945*. Vol. Experimental futures. Durham, N.C.: Duke University Press.
- Halpern, Orit. 2014b. 'Cybernetic Rationality'. *Distinktion: Scandinavian Journal of Social Theory* 15(2):223-38. doi: 10.1080/1600910X.2014.923320.
- Halpern, Orit. 2015. *Beautiful Data*. Duke University Press.
- Haraway, D. 1997. 'Chapter 4: Gene'. in *Modest@Witness@Second@Millennium.FemaleMan@Meets@OncoMouse: feminism and technoscience*. New York: Routledge.
- Harvey, P. 2012. 'The Topological Quality of Infrastructural Relation: An Ethnographic Approach'. *Theory, Culture & Society* 29(4-5):76-92. doi: 10.1177/0263276412448827.
- Hayles, N. Katherine. 1999. *How We Became Posthuman: Virtual Bodies in Cybernetics, Literature, and Informatics*. Chicago: University of Chicago P.
- Helmreich, S. 2002. 'Kinship in Hypertext'. Pp. 116-43 in *Relative values: reconfiguring kinship studies*. Durham, N.C.: Duke University Press.
- Helmreich, Stefan. 2007. 'Blue-Green Capital, Biotechnological Circulation and an Oceanic Imaginary: A Critique of Biopolitical Economy'. *BioSocieties* 2(3):287-302. doi: 10.1017/S1745855207005753.
- Hilgartner, Stephen. 2012. 'Selective Flows of Knowledge in Technoscientific Interaction: Information Control in Genome Research'. *The British Journal for the History of Science* 45(02):267-80. doi: 10.1017/S0007087412000106.
- Hirsch, Eric, and Marilyn Strathern. 2004. *Transactions and Creations: Property Debates and the Stimulus of Melanesia*. New York: Berghahn Books.
- Hogan, M el. 2015. 'Data Flows and Water Woes: The Utah Data Center'. *Big Data & Society* 2(2). doi: 10.1177/2053951715592429.
- Hui, Yuk. 2012. 'What Is a Digital Object?' *Metaphilosophy* 43(4):380-95. doi: 10.1111/j.1467-9973.2012.01761.x.
- 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):375–97. doi: 10.1177/0308275X10372468.
- Isin, Engin, and Evelyn Ruppert. 2017. 'Digital Citizenship and Surveillance| Citizen Snowden'. *International Journal of Communication* 11.
- J. Holt, and Patrick Vondereau. 2014. 'Where the Internet Lives: Data Centers as Cloud Infrastructure'. in *Traffic signal timing manual*. [Washington, D.C.]: U.S. Department of Transportation.
- Jackson Jr., John L. n.d. 'Ethnography Is, Ethnography Ain't'. *Cultural Anthropology* 27(3):480–97. doi: 10.1111/j.1548-1360.2012.01155.x.
- Janet Carsten. n.d. 'Ch. 4: The Person'. Pp. 83–108 in *After Kinship* by Janet Carsten. Cambridge University Press.
- Jensen, Casper Bruun, and Atsuro Morita. 2015. 'Infrastructures as Ontological Experiments'. *Engaging Science, Technology, and Society* 1:81–87.
- John, Nicholas A. 2013. 'Sharing and Web 2.0: The Emergence of a Keyword'. *New Media & Society* 15(2):167–82. doi: 10.1177/1461444812450684.
- Kaufmann, M. 2015. 'Resilience 2.0: Social Media Use and (Self-)Care during the 2011 Norway Attacks'. *Media, Culture & Society* 37(7):972–87. doi: 10.1177/0163443715584101.
- Kelty, Christopher, Gabriella Coleman, and Karen Strassler. 2012. 'Commentary and Discussion on the Digital Form Curated Collection'. *Curated Collections, Cultural Anthropology Online*. Retrieved (http://www.culanth.org/curated_collections/8-the-digital-form/discussions/15-commentary-and-discussion-on-the-digital-form-curated-collection).
- Kelty, Christopher M. 2012. 'This Is Not an Article: Model Organism Newsletters and the Question of "Open Science"'. *BioSocieties* 7(2):140–68. doi: 10.1057/biosoc.2012.8.
- Kim Fortun. 2004. 'From Bhopal to the Informating of Environmentalism: Risk Communication in Historical Perspective'. *Osiris* 19:283–96.
- Kirstie Ball ; Kevin D. Haggend David Lyon. n.d. 'Bruno, Fernanda. (2012) Surveillance and Participation on Web 2.0.' in *Routledge Handbook of Surveillance Studies*.
- Kitchin, R. 2014. 'Big Data, New Epistemologies and Paradigm Shifts'. *Big Data & Society* 1(1). doi: 10.1177/2053951714528481.
- Kitchin, Rob. 2014. *The Data Revolution: Big Data, Open Data, Data Infrastructures and Their Consequences*. Los Angeles: SAGE.
- Knox, H. 2015. 'Carbon, Convertibility, and the Technopolitics of Oil'. in *Subterranean estates: life worlds of oil and gas*, edited by H. Appel, A. Mason, and M. Watts. Ithaca: Cornell University Press.
- Laidlaw, James. 2000. 'A Free Gift Makes No Friends'. *Journal of the Royal Anthropological Institute* 6(4):617–34. doi: 10.1111/1467-9655.00036.

- Lake, Robert W. 2017. 'Big Data, Urban Governance, and the Ontological Politics of Hyperindividualism'. *Big Data & Society* 4(1). doi: 10.1177/2053951716682537.
- Lash, S. 2007. 'Power after Hegemony: Cultural Studies in Mutation?' *Theory, Culture & Society* 24(3):55–78. doi: 10.1177/0263276407075956.
- Latour, Bruno. 1999. 'Bruno Latour Pandora's Hope Ch 2: Circulating Reference'. Pp. 24–79 in *Pandora's hope: essays on the reality of science studies*. Cambridge, Mass: Harvard University Press.
- Latour, Bruno, Pablo Jensen, Tommaso Venturini, Sébastien Grauwin, and Dominique Boullier. 2012. "'The Whole Is Always Smaller than Its Parts" - a Digital Test of Gabriel Tarde's Monads'. *The British Journal of Sociology* 63(4):590–615. doi: 10.1111/j.1468-4446.2012.01428.x.
- Leach, James. 2011. 'The Self of the Scientist, Material for the Artist: Emergent Distinctions in an Interdisciplinary Collaboration'. *Social Analysis* 55(3). doi: 10.3167/sa.2011.550308.
- Lehning, M., N. Dawes, and M. Bavay et. al. n.d. 'Instrumenting the Earth: Next-Generation Sensor Networks and Environmental Science'. Pp. 45–51 in *The fourth paradigm: data-intensive scientific discovery*. Redmond, Wash: Microsoft Research.
- 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):6–11. doi: 10.1177/0270467613496768.
- Lezaun, J., and C. M. Montgomery. 2015. 'The Pharmaceutical Commons: Sharing and Exclusion in Global Health Drug Development'. *Science, Technology & Human Values* 40(1):3–29. doi: 10.1177/0162243914542349.
- Lippert, Ingmar. 2015. 'Environment as Datascape: Enacting Emission Realities in Corporate Carbon Accounting'. *Geoforum* 66:126–35. doi: 10.1016/j.geoforum.2014.09.009.
- Lupton, Deborah. 2013. 'Quantifying the Body: Monitoring and Measuring Health in the Age of mHealth Technologies'. *Critical Public Health* 23(4):393–403. doi: 10.1080/09581596.2013.794931.
- Lupton, Deborah. 2014. 'The Commodification of Patient Opinion: The Digital Patient Experience Economy in the Age of Big Data'. *Sociology of Health & Illness* 36(6):856–69. doi: 10.1111/1467-9566.12109.
- Lupton, Deborah. n.d. 'Self-Tracking Modes: Reflexive Self-Monitoring and Data Practices'. *Social Life of Big Data Symposium* 2nd June 2015.
- LYON, DAVID. 2008. 'BIOMETRICS, IDENTIFICATION AND SURVEILLANCE'. *Bioethics* 22(9):499–508. doi: 10.1111/j.1467-8519.2008.00697.x.
- Lyon, David. 2008. 'Biometrics, Identification and Surveillance'. *Bioethics* 22(9):499–508. doi: 10.1111/j.1467-8519.2008.00697.x.

- Lyon, David. 2010. 'Liquid Surveillance: The Contribution of Zygmunt Bauman to Surveillance Studies1'. *International Political Sociology* 4(4):325–38. doi: 10.1111/j.1749-5687.2010.00109.x.
- Lyon, David. 2014. 'Surveillance, Snowden, and Big Data: Capacities, Consequences, Critique'. *Big Data & Society* 1(2). doi: 10.1177/2053951714541861.
- M. Fortun. 2015. 'What Toll Pursuit: Affective Assemblages in Genomics and Postgenomics'. in *Postgenomics*, edited by S. S. Richardson and H. Stevens. Duke University Press.
- Mackenzie, Adrian. 2003. 'These Things Called Systems'. *Social Studies of Science* 33(3):365–87. doi: 10.1177/03063127030333003.
- Mackenzie, Adrian. 2014. 'Multiplying Numbers Differently: An Epidemiology of Contagious Convolution'. *Distinktion: Scandinavian Journal of Social Theory* 15(2):189–207. doi: 10.1080/1600910X.2014.922110.
- Manovich, L. 1999. 'Database as Symbolic Form'. *Convergence: The International Journal of Research into New Media Technologies* 5(2):80–99. doi: 10.1177/135485659900500206.
- Marcus, G. 2010. 'Holism and the Expectations of Critique in Post-1980s Anthropology; Notes and Queries, and an Epilogue'. Pp. 28–46 in *Experiments in holism: theory and practice in contemporary anthropology*. Chichester, West Sussex: Wiley-Blackwell.
- Marcus, George E. 1995. 'Ethnography in/of the World System: The Emergence of Multi-Sited Ethnography'. *Annual Review of Anthropology* 24(1):95–117. doi: 10.1146/annurev.an.24.100195.000523.
- MARCUS, GEORGE E. 2012. 'THE LEGACIES OF WRITING CULTURE AND THE NEAR FUTURE OF THE ETHNOGRAPHIC FORM: A Sketch'. *Cultural Anthropology* 27(3):427–45. doi: 10.1111/j.1548-1360.2012.01152.x.
- Marr, Bernard. 21AD. 'The Difference Between Big Data and a Lot of Data'. Retrieved (<http://data-informed.com/>).
- Marres, Noortje, and Esther Weltevrede. 2013. 'Scraping the Social?' *Journal of Cultural Economy* 6(3):313–35. doi: 10.1080/17530350.2013.772070.
- Maurer, W.M. 2015. 'Principles of Alliance and Descent for Big Data'. Pp. 67–86 in. *Prickly Paradigm Press/University of Chicago*.
- M'charek, Amade, Katharina Schramm, and David Skinner. 2014. 'Topologies of Race'. *Science, Technology, & Human Values* 39(4):468–87. doi: 10.1177/0162243913509493.
- Mike Savage and Roger Burrows. 2007. 'The Coming Crisis of Empirical Sociology'. *Sociology* 41(5):885–99.
- Nadim, Tahani. 2016. 'Blind Regards: Troubling Data and Their Sentinels'. *Big Data & Society* 3(2). doi: 10.1177/2053951716666301.

- Nafus, D ; Sherman, J. n.d. 'This One Does Not Go Up to 11: The Quantified Self Movement as an Alternative Big Data Practice'.
- Nafus, Dawn. 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):208–22. doi: 10.1080/1600910X.2014.920266.
- Nafus, Dawn. 2015. 'Data, Data, Everywhere, but Who Gets to Interpret It? | EPIC'. EPIC. Retrieved (<https://www.epicpeople.org/data-data-everywhere/>).
- Porter, Theodore M. 1995. *Trust in Numbers: The Pursuit of Objectivity in Science and Public Life*. Princeton, N.J: Princeton University Press.
- Rabinow, Paul. 1996. *Essays on the Anthropology of Reason*. Vol. Princeton studies in culture/power/history. Princeton, N.J: Princeton University Press.
- Rapp, Rayna. 2015. 'Big Data, Small Kids: Medico-Scientific, Familial and Advocacy Visions of Human Brains'. *BioSocieties*. doi: 10.1057/biosoc.2015.33.
- Richardson, Sarah S., and Hallam Stevens. 2015. *Postgenomics: Perspectives on Biology after the Genome*. Durham: Duke University Press.
- Riles, A. 2006. 'Introduction: In Response'. Pp. 1–38 in *Documents: artifacts of modern knowledge*. Ann Arbor: University of Michigan Press.
- Riles, Annelise. 2000. *The Network inside out: Annelise Riles*. Ann Arbor: The University of Michigan Press.
- Roderick, Leanne. 2014. 'Discipline and Power in the Digital Age: The Case of the US Consumer Data Broker Industry'. *Critical Sociology* 40(5):729–46. doi: 10.1177/0896920513501350.
- Rosenberg, D. 2013. 'Data before the Fact'. in 'Raw data' is an oxymoron. Vol. *Infrastructures series*, edited by L. Gitelman. Cambridge, Massachusetts: The MIT Press.
- Rubio, Fernando Dominguez, and Patrick Baert, eds. 2012. 'Leach, J. (2012) "Step inside: Knowledge Freely Available": The Politics of (Making) Knowledge-Objects'. in *The politics of knowledge*. London: Routledge.
- Ruckenstein, Minna. 2014. 'Visualized and Interacted Life: Personal Analytics and Engagements with Data Doubles'. *Societies* 4(1):68–84. doi: 10.3390/soc4010068.
- Ruppert, E. 2012. 'The Governmental Topologies of Database Devices'. *Theory, Culture & Society* 29(4–5):116–36. doi: 10.1177/0263276412439428.
- Ruppert, E., J. Law, and M. Savage. 2013. 'Reassembling Social Science Methods: The Challenge of Digital Devices'. *Theory, Culture & Society* 30(4):22–46. doi: 10.1177/0263276413484941.
- Ruppert, Evelyn, and Mike Savage. 2011. 'Transactional Politics'. *The Sociological Review* 59:73–92. doi: 10.1111/j.1467-954X.2012.02057.x.

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

Sabina Leonelli. 2015. 'What Counts as Scientific Data? A Relational Framework'. *Philosophy of Science* 82(5):810–21.

Salmond, Amiria J. M. 2013a. 'Transforming Translations (Part I)'. *HAU: Journal of Ethnographic Theory* 3(3). doi: 10.14318/hau3.3.002.

Salmond, Amiria J. M. 2013b. 'Transforming Translations (Part I): "The Owner of These Bones"'. *HAU: Journal of Ethnographic Theory* 3(3):1–32. doi: 10.14318/hau3.3.002.

Seaver, N. 2014. 'Studying up: The Ethnography of Technologists'. *Ethnography Matters*. Retrieved (<http://ethnographymatters.net/blog/2014/03/10/studying-up/>).

Seaver, Nick. 2015. 'The Nice Thing about Context Is That Everyone Has It'. *Media, Culture & Society* 37(7):1101–9. doi: 10.1177/0163443715594102.

Seaver, Nick. 2017. 'Algorithms as Culture: Some Tactics for the Ethnography of Algorithmic Systems'. *Big Data & Society* 4(2). doi: 10.1177/2053951717738104.

Shackley, S., and B. Wynne. 1996. 'Representing Uncertainty in Global Climate Change Science and Policy: Boundary-Ordering Devices and Authority'. *Science, Technology & Human Values* 21(3):275–302. doi: 10.1177/016224399602100302.

Sharma, Aradhana, and Akhil Gupta. 2006. 'Sharma, A. and Gupta, A. (2006) Introduction: Re-Thinking Theories of the State in an Age of Globalization'. in *The anthropology of the state: a reader*. Vol. Blackwell readers in anthropology. Malden, Mass: Blackwell.

Sharp, Lesley A. 2000. 'The Commodification of the Body and Its Parts'. *Annual Review of Anthropology* 29(1):287–328. doi: 10.1146/annurev.anthro.29.1.287.

Singer, Natasha. 2015. 'From Knowing Yourself to Prodding Yourself'. *The New York Times*.

Stefan Helmreich. 2011. 'From Spaceship Earth to Google Ocean: Planetary Icons, Indexes, and Infrastructures'. *Social Research* 78(4):1211–42.

Steinmetz, George. 1999. 'Mitchell, T. (1999) Society, Economy and the State Effect. In *State/Culture: State Formation after the Cultural Turn*.' in *State/culture: state-formation after the cultural turn*. Vol. The Wilder House series in politics, history, and culture. Ithaca, N.Y.: Cornell University Press.

Strathern, M. 1987. 'The Limits of Auto-Anthropology'. Pp. 16–37 in *Anthropology at home*. Vol. A.S.A. monographs. London: Tavistock Publications.

Strathern, M. 2000. 'Environments within: An Ethnographic Commentary on Scale'. Pp. 44–71 in *Culture, landscape, and the environment: the Linacre lectures, 1997*. Vol. The Linacre lectures. Oxford: Oxford University Press.

Strathern, M. 2002. 'On Space and Depth'. in *Complexities: social studies of knowledge practices*. Vol. Science and cultural theory. Durham: Duke University Press.

- Strathern, Marilyn. 1992a. *After Nature: English Kinship in the Late Twentieth Century*. Vol. The Lewis Henry Morgan lectures. Cambridge: Cambridge University Press.
- Strathern, Marilyn. 1992b. 'Parts and Wholes: Refiguring Relationships in a Post-Plural World'. Pp. 75–106 in *Conceptualizing society*. London: Routledge.
- Strathern, Marilyn. 1999. 'Chapter 1'. in *Property, substance and effect: anthropological essays on persons and things*. London: Athlone.
- Strathern, Marilyn. 2004. *Partial Connections*. Updated ed. Walnut Creek, CA: AltaMira Press.
- Strathern, Marilyn. 2005. 'Chapter 5: Losing (out on) Intellectual Resources'. Pp. 111–34 in *Kinship, Law and the Unexpected: Relatives are Always a Surprise*. Cambridge: Cambridge University Press.
- Strathern, Marilyn and University of Cambridge. Department of Social Anthropology. 1995. *The Relation: Issues in Complexity and Scale*. Vol. Prickly Pear pamphlet. Cambridge, U.K.: Prickly Pear Press.
- Striphas, Ted. 2015. 'Algorithmic Culture'. *European Journal of Cultural Studies* 18(4-5):395–412. doi: 10.1177/1367549415577392.
- Thacker, Eugene. 2003. 'What Is Biomedica?' *Configurations* 11(1):47–79. doi: 10.1353/con.2004.0014.
- Tsing, Anna. 2013. 'Sorting out Commodities: How Capitalist Value Is Made through Gifts'. *HAU: Journal of Ethnographic Theory* 3(1):21–43.
- Tutton, Richard, and Barbara Prainsack. 2011. 'Enterprising or Altruistic Selves? Making up Research Subjects in Genetics Research'. *Sociology of Health & Illness* 33(7):1081–95. doi: 10.1111/j.1467-9566.2011.01348.x.
- Underberg, Natalie M., and Elayne Zorn. 2013. 'Exploring Peruvian Culture through Multimedia Ethnography'. *Visual Anthropology* 26(1):1–17. doi: 10.1080/08949468.2013.734760.
- Universitetet i Oslo. 2005. *State Formation: Anthropological Perspectives*. Vol. *Anthropology, culture, and society*. edited by C. Krohn-Hansen and K. G. Nustad. London: Pluto Press.
- Van Dijck, José. 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):271–85. doi: 10.1016/S1369-8486(99)00020-5.
- Van Dijck, José, and Thomas Poell. 2016. 'Understanding the Promises and Premises of Online Health Platforms'. *Big Data & Society* 3(1). doi: 10.1177/2053951716654173.
- Verran, H. 2014. 'Number as Generative Device'. in *Inventive methods: the happening of the social*. Vol. *Culture, economy and the social*, edited by C. Lury and N. Wakeford. Abingdon: Routledge.

Verran, Helen. 2009. 'On Assemblage'. *Journal of Cultural Economy* 2(1-2):169-82. doi: 10.1080/17530350903064188.

Verran, Helen. 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* 59:60-72. doi: 10.1111/j.1467-954X.2012.02059.x.

Vertesi, Janet. 2014. 'My Experiment Opting Out of Big Data Made Me Look Like a Criminal.' *Time.Com* 1-1.

Weiner, A. B. 1992a. 'Inalienable Possessions: The Forgotten Dimension'. Pp. 23-43 in *Inalienable possessions: the paradox of keeping-while-giving*. Berkeley: University of California Press.

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

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'. doi: 10.4324/9781315673974.ch4.

Whittington, Jerome. 2016. 'Carbon as a Metric of the Human'. *PoLAR: Political and Legal Anthropology Review* 39(1):46-63. doi: 10.1111/plar.12130.