

ANTHGC25: Advanced Topics in Digital Culture

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1.
Beer D. How should we do the history of Big Data? *Big Data & Society*. 2016 Jan 5;3(1).
 2.
Halpern O. *Beautiful Data*. Duke University Press; 2015.
 3.
Rubio FD, Baert P, editors. Leach, J. (2012) 'Step inside: knowledge freely available': The politics of (making) knowledge-objects'. *The politics of knowledge* [Internet]. London: Routledge; 2012. Available from: <https://www.taylorfrancis.com/books/9781134004386>
 4.
Boellstorff T, Maurer B, editors. Seaver, N. (2015) *Bastard Algebra*. Data, now bigger and better! Chicago: Prickly Paradigm Press; 2015.
 5.
Annelise Riles. Infinity within the Brackets. *American Ethnologist* [Internet]. WileyAmerican Anthropological Association; 1998;25(3):378-398. Available from: http://www.jstor.org.libproxy.ucl.ac.uk/stable/645790?seq=1#page_scan_tab_contents
 6.
Latour B. Circulating Reference. *Pandora's hope: essays on the reality of science studies* [Internet]. Cambridge, Mass: Harvard University Press; 1999. p. 24-79. Available from: <https://contentstore.cla.co.uk//secure/link?id=3281174a-6036-e711-80c9-005056af4099>

7.

Striphas T. Algorithmic culture. *European Journal of Cultural Studies*. 2015 Aug;18(4-5):395-412.

8.

Rosenberg D. Data before the fact. In: Gitelman L, editor. 'Raw data' is an oxymoron [Internet]. Cambridge, Massachusetts: The MIT Press; 2013. Available from: <http://ieeexplore.ieee.org/servlet/opac?bknumber=6451327>

9.

Beer D. Productive measures: Culture and measurement in the context of everyday neoliberalism. *Big Data & Society*. 2015 Jun 10;2(1).

10.

Floridi L. A Look into the Future Impact of ICT on Our Lives. *The Information Society*. 2007 Jan;23(1):59-64.

11.

Verran H. 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*. 2011 Dec;59(2_suppl):60-72.

12.

Hacking I. The argument. *The Taming of Chance* [Internet]. Cambridge: Cambridge University Press; 1990. p. 1-10. Available from: <http://dx.doi.org/10.1017/CBO9780511819766>

13.

Porter TM. *Trust in numbers: the pursuit of objectivity in science and public life*. Princeton,

N.J.: Princeton University Press; 1995.

14.

Hui Y. What is a Digital Object? *Metaphilosophy*. 2012 Jul;43(4):380–395.

15.

Halpern O. Cybernetic rationality. *Distinktion: Scandinavian Journal of Social Theory*. 2014 May;15(2):223–238.

16.

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

17.

Riles A. Introduction: in response. *Documents: artifacts of modern knowledge*. Ann Arbor: University of Michigan Press; 2006. p. 1–38.

18.

Chua L, Salmond A. Artefacts in anthropology. *The SAGE handbook of social anthropology* [Internet]. Los Angeles: SAGE; 2012. p. 101–114. Available from: <https://contentstore.cla.co.uk//secure/link?id=11445b7c-8636-e711-80c9-005056af4099>

19.

JIMÉNEZ AC. Relations and disproportions: The labor of scholarship in the knowledge economy. *American Ethnologist*. 2008 May;35(2):229–242.

20.

Gitelman L. 'Raw data' is an oxymoron [Internet]. Cambridge, Mass: MIT Press; 2013. Available from: <http://ieeexplore.ieee.org/xpl/bkabstractplus.jsp?bkn=6451327>

21.

Manovich L. Database as Symbolic Form. *Convergence: The International Journal of Research into New Media Technologies*. 1999 Jun;5(2):80–99.

22.

Elizabeth A. Povinelli. The Woman on the Other Side of the Wall: Archiving the Otherwise in Postcolonial Digital Archives. *Differences: A Journal Of Feminist Cultural Studies* [Internet]. Duke University Press; 2011 Jan 1;22(1):146–171. Available from: <http://differences.dukejournals.org/content/22/1/146.short>

23.

Hogan M. Data flows and water woes: The Utah Data Center. *Big Data & Society*. 2015 Dec 27;2(2).

24.

Dourish, P. (2014) No SQL: The Shifting Materialities of Databases. *Computational Culture: a Journal of Software Studies*. Issue 4. Available from: <http://computationalculture.net/article/no-sql-the-shifting-materialities-of-database-technology>

25.

Geismar H, Mohns W. Social relationships and digital relationships: rethinking the database at the Vanuatu Cultural Centre. *Journal of the Royal Anthropological Institute*. 2011 May;17:S133–S155.

26.

Velkova J. Data that warms: Waste heat, infrastructural convergence and the computation traffic commodity. *Big Data & Society*. 2016 Nov;3(2).

27.

Bowker G. Databasing the world: Biodiversity and the 2000s. *Memory practices in the*

sciences [Internet]. Cambridge, Mass: MIT Press; 2005. p. 107–136. Available from: <https://contentstore.cla.co.uk//secure/link?id=4bbefe35-4f36-e711-80c9-005056af4099>

28.

Harvey P. The Topological Quality of Infrastructural Relation: An Ethnographic Approach. *Theory, Culture & Society*. 2012 Jul 1;29(4-5):76–92.

29.

To the Cloud: Big Data in a Turbulent World. *Contemporary Sociology: A Journal of Reviews*. 2015 May 1;44(3):436–437.

30.

Bowker GC, Star SL. *Sorting things out: classification and its consequences* [Internet]. Cambridge, Mass: MIT Press; 1999. Available from: <http://cognet.mit.edu/book/sorting-things-out>

31.

J. Holt, Patrick Vondereau. *Where the Internet Lives: Data Centers as Cloud Infrastructure*. Traffic signal timing manual [Internet]. [Washington, D.C.]: U.S. Department of Transportation; 2014. Available from: http://app.knovel.com/hotlink/toc/id:kpTSTMPNF2/traffic_signal_timing_manual_publication_no_fhwahop08024

32.

Salmond AJM. Transforming translations (part I). *HAU: Journal of Ethnographic Theory*. 2013 Dec 23;3(3).

33.

Chun WHK. The Enduring Ephemeral, or the Future Is a Memory. *Critical Inquiry*. 2008 Sep;35(1):148–171.

34.

Fuller M, Goffey A. Digital Infrastructures and the Machinery of Topological Abstraction. *Theory, Culture & Society*. 2012 Jul 1;29(4-5):311-333.

35.

Haraway D. Chapter 4: Gene.
Modest@Witness@Second@MillenniumFemaleMan@Meets@OncoMouse: feminism and technoscience. New York: Routledge; 1997.

36.

Verran H. On assemblage. *Journal of Cultural Economy*. 2009 Jul;2(1-2):169-182.

37.

Mackenzie A. Multiplying numbers differently: an epidemiology of contagious convolution. *Distinktion: Scandinavian Journal of Social Theory*. 2014 May 4;15(2):189-207.

38.

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

39.

Jensen CB, Morita A. Infrastructures as Ontological Experiments. *Engaging Science, Technology, and Society* [Internet]. 2015 Nov 8;1:81-87. Available from: <http://estsjournal.org/article/view/21>

40.

Laidlaw J. A free gift makes no friends. *Journal of the Royal Anthropological Institute*. 2000 Dec;6(4):617-634.

41.

Tsing, Anna. Sorting out commodities: How capitalist value is made through gifts. *HAU : Journal of Ethnographic Theory* [Internet]. 2013;3(1):21-43. Available from:

https://search-proquest-com.libproxy.ucl.ac.uk/docview/1850088542?rfr_id=info%3Axri%2Fsid%3Aprimo

42.

John NA. Sharing and Web 2.0: The emergence of a keyword. *New Media & Society*. 2013 Mar;15(2):167–182.

43.

Maurer, W.M. Principles of Alliance and Descent for Big Data. Prickly Paradigm Press/University of Chicago; 2015. p. 67–86. Available from: <http://escholarship.org/uc/item/41r1s161>

44.

Van Dijck J, Poell T. Understanding the promises and premises of online health platforms. *Big Data & Society*. 2016 Jan 5;3(1).

45.

S. Day, C. Lury. Biosensing: Tracking Persons. *Quantified: Biosensing Technologies in Everyday Life* [Internet]. MIT Press; 2016. Available from: <http://ieeexplore.ieee.org.libproxy.ucl.ac.uk/xpl/ebooks/bookPdfWithBanner.jsp?fileName=7580073.pdf&bkn=7580015&pdfType=chapter>

46.

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

47.

Weiner AB. Reconfiguring Exchange Theory: The Maori Hau. *Inalienable possessions: the paradox of keeping-while-giving*. Berkeley: University of California Press; 1992.

48.

Leonelli S. 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*. 2013 Feb 1;33(1-2):6-11.

49.

Richardson, Sarah S.; Stevens, Hallam. Fortun, M. (2015) What Toll Pursuit: Affective Assemblages in Genomics and Postgenomics. *Postgenomics: Perspectives on Biology after the Genome* [Internet]. Available from: [http://ucl-primo.hosted.exlibrisgroup.com/primo_library/libweb/action/display.do?frbrVersion=4&tabs=detailsTab&ct=display&fn=search&doc=TN_dawson9780822375449&indx=2&reclds=TN_dawson9780822375449&recldxs=1&elementId=1&renderMode=poppedOut&displayMode=full&frbrVersion=4&frbg=&&dscnt=0&scp.scps=scope%3A%28UCL%29%2Cprimo_central_multiple_fe&tb=t&mode=Basic&vid=UCL_VU1&srt=rank&tab=local&dum=true&vl\(freeText0\)=Postgenomics%3A%20Perspectives%20on%20Biology%20After%20the%20Genome&dstmp=1471430773987](http://ucl-primo.hosted.exlibrisgroup.com/primo_library/libweb/action/display.do?frbrVersion=4&tabs=detailsTab&ct=display&fn=search&doc=TN_dawson9780822375449&indx=2&reclds=TN_dawson9780822375449&recldxs=1&elementId=1&renderMode=poppedOut&displayMode=full&frbrVersion=4&frbg=&&dscnt=0&scp.scps=scope%3A%28UCL%29%2Cprimo_central_multiple_fe&tb=t&mode=Basic&vid=UCL_VU1&srt=rank&tab=local&dum=true&vl(freeText0)=Postgenomics%3A%20Perspectives%20on%20Biology%20After%20the%20Genome&dstmp=1471430773987)

50.

Biagioli M. Rights or rewards? Changing frameworks of scientific authorship. *Scientific authorship: credit and intellectual property in science* [Internet]. New York: Routledge; 2013. p. 253-281. Available from: <http://www.tandfebooks.com/ISBN/9780203954270>

51.

Weiner AB. Inalienable possessions: The forgotten dimension. *Inalienable possessions: the paradox of keeping-while-giving* [Internet]. Berkeley: University of California Press; 1992. p. 23-43. Available from: <https://contentstore.cla.co.uk//secure/link?id=7cf9c98c-5836-e711-80c9-005056af4099>

52.

Hilgartner S. Selective flows of knowledge in technoscientific interaction: information control in genome research. *The British Journal for the History of Science*. 2012 Jun;45(02):267-280.

53.

Kelty CM. This is not an article: Model organism newsletters and the question of 'open science'. *BioSocieties*. 2012 Jun;7(2):140-168.

54.

Hirsch E, Strathern M. Transactions and creations: property debates and the stimulus of Melanesia [Internet]. New York: Berghahn Books; 2004. Available from: <https://www.jstor.org/stable/j.ctv287skdk>

55.

Leach J. The Self of the Scientist, Material for the Artist: Emergent Distinctions in an Interdisciplinary Collaboration. *Social Analysis*. 2011 Jan 1;55(3).

56.

Lezaun J, Montgomery CM. The Pharmaceutical Commons: Sharing and Exclusion in Global Health Drug Development. *Science, Technology & Human Values*. 2015 Jan 1;40(1):3–29.

57.

D. Miller. *Alienable Gifts and Inalienable Commodities. The empire of things: regimes of value and material culture.* Santa Fe, N.M.: School of American Research Press; 2001.

58.

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

59.

Dalsgaard S, Nielsen M. Introduction: Time and the Field. *Social Analysis*. 2013 Mar 1;57(1):1–19.

60.

Biagioli M. Between Knowledge And Technology: Patenting Methods, Rethinking Materiality. *Anthropological Forum*. 2012 Nov;22(3):285–299.

61.

Strathern M. The Patent and the Malanggan. *Theory, Culture & Society*. 2001 Aug 1;18(4):1-26.

62.

Brown D, Nicholas G. Protecting indigenous cultural property in the age of digital democracy: Institutional and communal responses to Canadian First Nations and Maori heritage concerns. *Journal of Material Culture*. 2012 Sep 1;17(3):307-324.

63.

Gregory CA. *Gifts and commodities*. London: Academic Press; 1982.

64.

Maurer B. Late to the party: debt and data. *Social Anthropology*. 2012 Nov;20(4):474-481.

65.

Strathern M. Externalities in comparative guise. *Economy and Society*. 2002 Jan;31(2):250-267.

66.

Rosemary J. Coombe and Andrew Herman. Rhetorical Virtues: Property, Speech, and the Commons on the World-Wide Web. *Anthropological Quarterly* [Internet]. 2004;77(3):559-574. Available from: <http://www.jstor.org/stable/3318236>

67.

Annette B. Weiner. Inalienable Wealth. *American Ethnologist* [Internet]. 1985;12(2):210-227. Available from: http://www.jstor.org/stable/644217?seq=1#page_scan_tab_contents

68.

Walford A. Data Moves: Taking Amazonian Climate Science Seriously. *The Cambridge Journal of Anthropology*. 2012 Jan 1;30(2).

69.

Brine KR, Poovey M. From Measuring Desire to Quantifying Expectations: A Late Nineteenth- Century Effort to Marry Economic Theory and Data. 'Raw data' is an oxymoron [Internet]. Cambridge, Mass: MIT Press; 2013. Available from: <https://ieeexplore-ieee-org.libproxy.ucl.ac.uk/servlet/opac?bknumber=6451327>

70.

Helmond A. 'Raw data' is an oxymoron. *Information, Communication & Society*. 2014 Oct 21;17(9):1171-1173.

71.

Arturo Escobar. After Nature Steps to an Antiessentialist Political Ecology. *Current Anthropology* [Internet]. 1999;40(1):1-30. Available from: http://www.jstor.org/stable/10.1086/515799?sid=primo&origin=crossref&seq=1#page_scan_tab_contents

72.

Büscher B. Nature 2.0: Exploring and theorizing the links between new media and nature conservation. *New Media & Society*. 2016 May;18(5):726-743.

73.

Asdal K. Enacting things through numbers: Taking nature into account/ing. *Geoforum*. 2008 Jan;39(1):123-132.

74.

Kim Fortun. From Bhopal to the Informating of Environmentalism: Risk Communication in Historical Perspective. *Osiris* [Internet]. The University of Chicago Press; 2004;19:283-296. Available from: http://www.jstor.org.libproxy.ucl.ac.uk/stable/3655245?seq=1#page_scan_tab_contents

75.

Gabrys J, Pritchard H, Barratt B. Just good enough data: Figuring data citizenships through air pollution sensing and data stories. *Big Data & Society*. 2016 Nov;3(2).

76.

Whittington J. Carbon as a Metric of the Human. *PoLAR: Political and Legal Anthropology Review*. 2016 May;39(1):46–63.

77.

Büscher B. Nature 2.0. *Geoforum*. 2013 Jan;44:1–3.

78.

Nadim T. Blind regards: Troubling data and their sentinels. *Big Data & Society*. 2016 Nov;3(2).

79.

Garnett E. Developing a feeling for error: Practices of monitoring and modelling air pollution data. *Big Data & Society*. 2016 Nov;3(2).

80.

Fortun K, Poirier L, Morgan A, Costelloe-Kuehn B, Fortun M. Pushback: Critical data designers and pollution politics. *Big Data & Society*. 2016 Nov;3(2).

81.

Dalsgaard S. The commensurability of carbon. *HAU: Journal of Ethnographic Theory*. 2013 Jun 18;3(1):80–98.

82.

Grebowicz M. Glacial Time and Lonely Crowds: The social effects of climate change as internet spectacle. *Environmental Humanities* [Internet]. 2014;5:1-11. Available from: <https://doi.org/10.1215/22011919-3615388>

83.

Stefan Helmreich. From Spaceship Earth to Google Ocean: Planetary Icons, Indexes, and Infrastructures. *Social Research* [Internet]. The New School; 2011;78(4):1211-1242. Available from: http://www.jstor.org.libproxy.ucl.ac.uk/stable/23349849?seq=1#page_scan_tab_contents

84.

McNally R, Mackenzie A, Hui A, Tomomitsu J. Understanding the 'Intensive' in 'Data Intensive Research': Data Flows in Next Generation Sequencing and Environmental Networked Sensors. *International Journal of Digital Curation*. 2012 Mar 12;7(1):81-94.

85.

Gabrys J. Program earth: environmental sensing technology and the making of a computational planet [Internet]. Minneapolis: University of Minnesota Press; 2016. Available from: <http://www.jstor.org/stable/10.5749/j.ctt1b7x5gq>

86.

Lippert I. Environment as datascape: Enacting emission realities in corporate carbon accounting. *Geoforum*. 2015 Nov;66:126-135.

87.

Verran H. Number as Generative Device. In: Lury C, Wakeford N, editors. *Inventive methods: the happening of the social*. Abingdon: Routledge; 2014.

88.

Knox H. Carbon, Convertibility, and the Technopolitics of Oil. In: Appel H, Mason A, Watts M, editors. *Subterranean estates: life worlds of oil and gas* [Internet]. Ithaca: Cornell University Press; 2015. Available from: <https://ucl.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma9931090819204761&>

amp;context=L&vid=44UCL_INST:UCL_VU2&lang=en&search_scope=MyInst_and_CI&adaptor=Local%20Search%20Engine&isFrbr=true&tab=Everything&query=any,contains,990022437450204761&sortBy=date_d&facet=frbrgroupid,include,9022657445453213247&offset=0

89.

Richard Maxwell ; Jon Raundand Nina Lager Vestberg. Gabrys, J. (2015) Powering Ecologies: From Energy Ecologies to Electronic Environmentalism. *Media and the Ecological Crisis: Routledge research in cultural and media studies* 67.

90.

Sabina Leonelli. What Counts as Scientific Data? A Relational Framework. *Philosophy of Science* [Internet]. 2015;82(5):810–821. Available from: http://www.jstor.org/stable/10.1086/684083?seq=1#page_scan_tab_contents

91.

Shackley S, Wynne B. Representing Uncertainty in Global Climate Change Science and Policy: Boundary-Ordering Devices and Authority. *Science, Technology & Human Values*. 1996 Jul 1;21(3):275–302.

92.

Fairhead J, Leach M, Scoones I. Green Grabbing: a new appropriation of nature? *Journal of Peasant Studies*. 2012 Apr;39(2):237–261.

93.

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

94.

Helmreich S. Blue-green Capital, Biotechnological Circulation and an Oceanic Imaginary: A Critique of Biopolitical Economy. *BioSocieties*. 2007 Sep;2(3):287–302.

95.

Igoe J. The spectacle of nature in the global economy of appearances: Anthropological engagements with the spectacular mediations of transnational conservation. *Critique of Anthropology*. 2010 Dec 1;30(4):375–397.

96.

Franklin S. Re-thinking nature-culture: Anthropology and the new genetics. *Anthropological Theory*. 2003 Mar 1;3(1):65–85.

97.

Rapp R. Big data, small kids: Medico-scientific, familial and advocacy visions of human brains. *BioSocieties*. 2015 Oct 26;

98.

Lupton D. Quantifying the body: monitoring and measuring health in the age of mHealth technologies. *Critical Public Health*. 2013 Dec;23(4):393–403.

99.

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

100.

Emily Martin. The End of the Body? *American Ethnologist* [Internet]. Wiley; 1992;19(1):121–140. Available from: http://www.jstor.org/stable/644828?seq=1#page_scan_tab_contents

101.

Tutton R, Prainsack B. Enterprising or altruistic selves? Making up research subjects in genetics research. *Sociology of Health & Illness*. 2011 Nov;33(7):1081–1095.

102.

Ruckenstein M. Visualized and Interacted Life: Personal Analytics and Engagements with Data Doubles. *Societies*. 2014 Feb 18;4(1):68–84.

103.

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

104.

Sharp LA. The Commodification of the Body and its Parts. *Annual Review of Anthropology*. 2000 Oct 21;29(1):287–328.

105.

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

106.

Beaulieu A. 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*. 2004 Jun;35(2):367–390.

107.

Singer N. From knowing yourself to prodding yourself. *The New York Times*. New York Times; 2015 Apr 19;

108.

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

109.

Lupton D. The commodification of patient opinion: the digital patient experience economy in the age of big data. *Sociology of Health & Illness*. 2014 Jul;36(6):856–869.

110.

Franklin S. Biologization Re-visited: Kinship Theory. *Relative values: reconfiguring kinship studies* [Internet]. Durham [N.C.]: Duke University Press; 2001. p. 302–325. Available from: https://ucl.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma9931045211204761&context=L&vid=44UCL_INST:UCL_VU2&lang=en&search_scope=MyInst_and_CI&adaptor=Local%20Search%20Engine&isFrbr=true&tab=Everything&query=any,contains,Relative%20values:%20reconfiguring%20kinship%20studies&sortby=date_d&facet=frbrgroupid,include,61215140135456524&offset=0

111.

Helmreich S. Kinship in Hypertext. *Relative values: reconfiguring kinship studies* [Internet]. Durham, N.C.: Duke University Press; 2002. p. 116–143. Available from: <http://www.vlebooks.com/vleweb/product/openreader?id=UCL&isbn=9780822383222>

112.

Dawn Nafus. 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* [Internet]. 2014;8. Available from: <http://ijoc.org/index.php/ijoc/article/view/2170>

113.

Fujimara J. The Practice of Producing Meaning in Bioinformatics. *The practices of human genetics*. Dordrecht: Kluwer Academic; 1999. p. 49–87.

114.

Rabinow P. *Essays on the anthropology of reason*. Princeton, N.J: Princeton University Press; 1996.

115.

Gross A. The economy of social data: exploring research ethics as device. *The Sociological*

Review. 2011 Dec;59:113–129.

116.

Van Dijck J. 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*. 2000 Jun;31(2):271–285.

117.

Gerlitz C, Lury C. Social media and self-evaluating assemblages: on numbers, orderings and values. *Distinktion: Scandinavian Journal of Social Theory*. 2014 May 4;15(2):174–188.

118.

Kaufmann M. Resilience 2.0: social media use and (self-)care during the 2011 Norway attacks. *Media, Culture & Society*. 2015 Oct 1;37(7):972–987.

119.

Nafus D. Stuck data, dead data, and disloyal data: the stops and starts in making numbers into social practices. *Distinktion: Scandinavian Journal of Social Theory*. 2014 May 4;15(2):208–222.

120.

Strathern M. Chapter 5: Losing (out on) Intellectual Resources. *Kinship, Law and the Unexpected: Relatives are Always a Surprise* [Internet]. Cambridge: Cambridge University Press; 2005. p. 111–134. Available from: <http://dx.doi.org/10.1017/CBO9780511614514>

121.

Steinmetz G. 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 [Internet]. Ithaca, N.Y.: Cornell University Press; 1999. Available from: https://ucl.primo.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=14616198260004761&institutionId=4761&customerId=4760&VE=true

122.

Amoore L. Biometric borders: Governing mobilities in the war on terror. *Political Geography*. 2006 Mar;25(3):336–351.

123.

Browne S. *Dark Matters* [Internet]. Duke University Press; 2015. Available from: <http://read.dukeupress.edu/lookup/doi/10.1215/9780822375302>

124.

The World of Indicators edited by Richard Rottenburg [Internet]. Available from: <https://www-cambridge-org.libproxy.ucl.ac.uk/core/books/world-of-indicators/C7903E69E0329A256EF02C3CB5C918ED>

125.

Birchall C. Shareveillance: Subjectivity between open and closed data. *Big Data & Society*. 2016 Nov;3(2).

126.

Adams V. *Metrics* [Internet]. Duke University Press; 2016. Available from: <http://read.dukeupress.edu/lookup/doi/10.1215/9780822374480>

127.

D. Haggerty, Richard V. Ericson K. The surveillant assemblage. *British Journal of Sociology*. 2000 Dec 1;51(4):605–622.

128.

Sharma A, Gupta A. 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*. Malden, Mass: Blackwell; 2006.

129.

Universitetet i Oslo. State formation: anthropological perspectives [Internet]. Krohn-Hansen C, Nustad KG, editors. London: Pluto Press; 2005. Available from: <https://www.jstor.org/stable/j.ctt18fs5n7>

130.

Isin, E and Ruppert E (2017) Citizen Snowden. *International Journal of Communication* 11 843-857 [Internet]. Available from: <http://ijoc.org/index.php/ijoc/article/viewFile/5642/1934>

131.

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

132.

Isin, E and Ruppert E (2017) Citizen Snowden. *International Journal of Communication* 11 843-857 [Internet]. Available from: <http://ijoc.org/index.php/ijoc/article/viewFile/5642/1934>

133.

Cheney-Lippold J. A New Algorithmic Identity. *Theory, Culture & Society*. 2011 Nov;28(6):164-181.

134.

Roderick L. Discipline and Power in the Digital Age: The Case of the US Consumer Data Broker Industry. *Critical Sociology*. 2014 Sep;40(5):729-746.

135.

Ruppert E. Population Objects: Interpassive Subjects. *Sociology*. 2011 Apr;45(2):218-233.

136.

M'charek A, Schramm K, Skinner D. Topologies of Race. *Science, Technology, & Human Values*. 2014 Jul;39(4):468-487.

137.

Gilles Deleuze. Postscript on the Societies of Control. October [Internet]. The MIT Press/The MIT Press; 1992;59:3-7. Available from:
http://www.jstor.org.libproxy.ucl.ac.uk/stable/778828?seq=1#page_scan_tab_contents

138.

Ruppert E, Savage M. Transactional politics. *The Sociological Review*. 2011 Dec;59:73-92.

139.

Nafus, D ; Sherman, J. This One Does Not Go Up to 11: The Quantified Self Movement as an Alternative Big Data Practice. Available from:
[http://ucl-primo.hosted.exlibrisgroup.com/primo_library/libweb/action/display.do?tabs=detailsTab&ct=display&fn=search&doc=TN_wos000349010500023&indx=1&reclDs=TN_wos000349010500023&reclDxs=0&elementId=0&renderMode=poppedOut&displayMode=full&frbrVersion=&frbg=&&dscnt=0&scp.scps=scope%3A%28UCL%29%2Cprimo_central_multiple_fe&tb=t&mode=Basic&vid=UCL_VU1&srt=rank&tab=local&dum=true&vl\(freeText0\)=%20Nafus%2C%20D.%20and%20J.%20Sherman%20%282014%29%20This%20One%20Does%20Not%20Go%20Up%20to%20Eleven%3A%20The%20Quantified%20Self%20Movement%20as%20an%20Alternative%20Big%20Data%20Practice.%20International%20Journal%20of%20Communication%2C%20Vol%208.&dstmp=1471435285056](http://ucl-primo.hosted.exlibrisgroup.com/primo_library/libweb/action/display.do?tabs=detailsTab&ct=display&fn=search&doc=TN_wos000349010500023&indx=1&reclDs=TN_wos000349010500023&reclDxs=0&elementId=0&renderMode=poppedOut&displayMode=full&frbrVersion=&frbg=&&dscnt=0&scp.scps=scope%3A%28UCL%29%2Cprimo_central_multiple_fe&tb=t&mode=Basic&vid=UCL_VU1&srt=rank&tab=local&dum=true&vl(freeText0)=%20Nafus%2C%20D.%20and%20J.%20Sherman%20%282014%29%20This%20One%20Does%20Not%20Go%20Up%20to%20Eleven%3A%20The%20Quantified%20Self%20Movement%20as%20an%20Alternative%20Big%20Data%20Practice.%20International%20Journal%20of%20Communication%2C%20Vol%208.&dstmp=1471435285056)

140.

Lyon D. Surveillance, Snowden, and Big Data: Capacities, consequences, critique. *Big Data & Society*. 2014 Jul 10;1(2).

141.

LYON D. BIOMETRICS, IDENTIFICATION AND SURVEILLANCE. *Bioethics*. 2008 Nov;22(9):499-508.

142.

Evelyn Ruppert. Population Objects: Interpassive Subjects. *Sociology* [Internet]. 2011;45(2):218-233. Available from: http://www.jstor.org/stable/42857535?seq=1#page_scan_tab_contents

143.

Lupton D. Self-tracking modes: reflexive self-monitoring and data practices [Internet]. Social life of big data symposium 2nd June 2015. School of Communications and Arts, Edith Cowan University, Perth Western Australia; Available from: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2483549

144.

Fuller M, Goffey A. Leak early, leak often. *Evil media* [Internet]. Cambridge, Massachusetts: The MIT Press; 2012. p. 100-104. Available from: https://ucl.primo.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=15040989580004761&institutionId=4761&customerId=4760&VE=true

145.

Vertesi J. My Experiment Opting Out of Big Data Made Me Look Like a Criminal. *Time.com* [Internet]. 2014;1-1. Available from: <http://search.ebscohost.com/login.aspx?direct=true&AuthType=ip,shib&db=bth&AN=95911990&site=ehost-live&scope=site>

146.

Amoore L. Data Derivatives: On the Emergence of a Security Risk Calculus for Our Times. *Theory, Culture & Society*. 2011 Nov 1;28(6):24-43.

147.

Strathern M. Parts and wholes: refiguring relationships in a post-plural world. *Conceptualizing society* [Internet]. London: Routledge; 1992. p. 75-106. Available from: <http://www.tandfebooks.com/ISBN/9780203032244>

148.

Ruppert E. The Governmental Topologies of Database Devices. *Theory, Culture & Society*. 2012 Jul 1;29(4-5):116-136.

149.

Lyon D. Biometrics, Identification and Surveillance. *Bioethics*. 2008 Nov;22(9):499-508.

150.

Lyon D. Liquid Surveillance: The Contribution of Zygmunt Bauman to Surveillance Studies1. *International Political Sociology*. 2010 Dec;4(4):325-338.

151.

Anna Tsing. The Global Situation. *Cultural Anthropology* [Internet]. 2000;15(3):327-360. Available from: http://www.jstor.org/stable/656606?seq=1#page_scan_tab_contents

152.

Coopmans C. Visual analytics as artful revelation. In: Coopmans C, editor. *Representation in scientific practice revisited* [Internet]. Cambridge, Massachusetts: The MIT Press; 2014. Available from: http://www.jstor.org/stable/j.ctt9qf5hv.6?seq=1#page_scan_tab_contents

153.

The End of Theory: The Data Deluge Makes the Scientific Method Obsolete | WIRED [Internet]. Available from: <https://www.wired.com/2008/06/pb-theory/>

154.

Latour B, Jensen P, Venturini T, Grauwin S, Boullier D. 'The whole is always smaller than its parts' - a digital test of Gabriel Tarde's monads. *The British Journal of Sociology*. 2012 Dec;63(4):590-615.

155.

Lake RW. Big Data, urban governance, and the ontological politics of hyperindividualism. *Big Data & Society*. 2017 Jun;4(1).

156.

Annelise Riles. Infinity within the Brackets. *American Ethnologist* [Internet]. WileyAmerican Anthropological Association; 1998;25(3):378-398. Available from: http://www.jstor.org.libproxy.ucl.ac.uk/stable/645790?seq=1#page_scan_tab_contents

157.

boyd danah, Crawford K. CRITICAL QUESTIONS FOR BIG DATA. *Information, Communication & Society*. 2012 Jun;15(5):662-679.

158.

Seaver N. The nice thing about context is that everyone has it. *Media, Culture & Society*. 2015 Oct;37(7):1101-1109.

159.

MARILYN STRATHERN. 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* [Internet]. Berghahn Books; 2001;22(1):52-66. Available from: http://www.jstor.org.libproxy.ucl.ac.uk/stable/23820353?seq=1#page_scan_tab_contents

160.

Boellstorff T, Maurer B, editors. *Boellstorff, T. (2015) Making Big Data, . Data, now bigger and better!* Chicago: Prickly Paradigm Press; 2015.

161.

Abramson, Allen. (2016) What in/is the world in/of Big Data? *Theorizing the Contemporary, Cultural Anthropology*. Available from: <https://culanth.org/fieldsights/833-what-in-is-the-world-is-of-big-data>

162.

Breiger RL. Scaling down. *Big Data & Society*. 2015 Dec;2(2).

163.

Kitchin R. Big Data, new epistemologies and paradigm shifts. *Big Data & Society*. 2014 Apr 1;1(1).

164.

Strathern M. *Partial connections*. Updated ed. Walnut Creek, CA: AltaMira Press; 2004.

165.

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

166.

Strathern M. *On Space and Depth. Complexities: social studies of knowledge practices* [Internet]. Durham: Duke University Press; 2002. Available from: <http://dx.doi.org/10.1215/9780822383550>

167.

Marr B. *The Difference Between Big Data and a Lot of Data* [Internet]. *Data Informed*; 21AD. Available from: <http://data-informed.com/>

168.

Marcus G. *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* [Internet]. Chichester, West Sussex: Wiley-Blackwell; 2010. p. 28–46. Available from: <http://dx.doi.org/10.1002/9781444324426>

169.

Couldry N, Powell A. Big Data from the bottom up. *Big Data & Society*. 2014 Jul 1;1(2).

170.

Lash S. Power after Hegemony: Cultural Studies in Mutation? *Theory, Culture & Society*. 2007 May 1;24(3):55–78.

171.

Bowker GC. The Theory/Data Thing. *International Journal of Communication [Internet]*. 2014;8. Available from: <http://ijoc.org/index.php/ijoc/article/view/2190>

172.

Beer D, Burrows R. Popular Culture, Digital Archives and the New Social Life of Data. *Theory, Culture & Society*. 2013 Jul 1;30(4):47–71.

173.

Riles A. *The network inside out*: Annelise Riles. Ann Arbor: University of Michigan Press; 2001.

174.

Wendy F. Hsu. Hsu, W.F (2016) A Performative Digital Ethnography. In 'The Routledge Companion to Digital Ethnography' eds. Hjorth, Horst, Galloway, Bell. Routledge. 2016; Available from: <https://www-routledgehandbooks-com.libproxy.ucl.ac.uk/doi/10.4324/9781315673974.ch4>

175.

Seaver N. Algorithms as culture: Some tactics for the ethnography of algorithmic systems. *Big Data & Society*. 2017 Dec;4(2).

176.

Mackenzie A. These Things Called Systems. *Social Studies of Science*. 2003 Jun;33(3):365–387.

177.

Candea M. Arbitrary locations: in defence of the bounded field-site. *Journal of the Royal Anthropological Institute*. 2007 Mar;13(1):167–184.

178.

Marcus GE. Ethnography in/of the World System: The Emergence of Multi-Sited Ethnography. *Annual Review of Anthropology*. 1995 Oct;24(1):95–117.

179.

Boellstorff T. Rethinking Digital Anthropology. *Digital anthropology* [Internet]. London: Berg; 2012. Available from: <https://www.dawsonera.com/guard/protected/dawson.jsp?name=https://shib-idp.ucl.ac.uk/shibboleth&dest=http://www.dawsonera.com/depp/reader/protected/external/AbstractView/S9780857852922>

180.

Jackson Jr. JL. Ethnography is, ethnography ain't. *Cultural Anthropology*. 27(3):480–497.

181.

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

182.

Kelty C, Coleman G, Strassler K. Commentary and Discussion on the Digital Form Curated Collection [Internet]. *Curated Collections, Cultural Anthropology Online*. 2012. Available from: http://www.culanth.org/curated_collections/8-the-digital-form/discussions/15-commentary-and-discussion-on-the-digital-form-curated-collection

183.

George E. Marcus and Marcelo Pizarro. The End(s) of Ethnography: Social/Cultural Anthropology's Signature Form of Producing Knowledge in Transition. *Cultural Anthropology* [Internet]. 2008;23(1):1–14. Available from: http://www.jstor.org/stable/20484493?seq=1#page_scan_tab_contents

184.

MARCUS GE. THE LEGACIES OF WRITING CULTURE AND THE NEAR FUTURE OF THE ETHNOGRAPHIC FORM: A Sketch. *Cultural Anthropology*. 2012 Aug;27(3):427–445.

185.

Marilyn Strathern. 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* [Internet]. 2001;22(1):52–66. Available from: http://www.jstor.org/stable/23820353?seq=8#page_scan_tab_contents

186.

Strathern M. The Limits of Auto-anthropology. *Anthropology at home*. London: Tavistock Publications; 1987. p. 16–37.

187.

Underberg NM, Zorn E. Exploring Peruvian Culture through Multimedia Ethnography. *Visual Anthropology*. 2013 Jan;26(1):1–17.

188.

Faubion JD, Marcus GE. *Fieldwork is not what it used to be: learning anthropology's method in a time of transition*. Ithaca: Cornell University Press; 2009.

189.

Marres N, Weltevrede E. Scraping the social? *Journal of Cultural Economy*. 2013 Aug;6(3):313–335.

190.

Blok A, Pedersen MA. Complementary social science? Quali-quantitative experiments in a Big Data world. *Big Data & Society*. 2014 Jul 1;1(2).

191.

Anderson K, Nafus D, Rattenbury T, Aipperspach R. Numbers Have Qualities Too: Experiences with Ethno-Mining. *Ethnographic Praxis in Industry Conference Proceedings*. 2009 Aug;2009(1):123-140.

192.

Why Big Data Needs Thick Data – Ethnography Matters – Medium [Internet]. Available from:
<https://medium.com/ethnography-matters/why-big-data-needs-thick-data-b4b3e75e3d7>

193.

Mike Savage and Roger Burrows. The Coming Crisis of Empirical Sociology. *Sociology* [Internet]. Sage Publications, Ltd.Sage Publications, Ltd.; 2007;41(5):885-899. Available from:
http://www.jstor.org.libproxy.ucl.ac.uk/stable/42858273?seq=1#page_scan_tab_contents

194.

Nafus D. Data, Data, Everywhere, but Who Gets to Interpret It? | EPIC [Internet]. EPIC. EPICPeople.org; 2015. Available from: <https://www.epicpeople.org/data-data-everywhere/>

195.

Ruppert E, Law J, Savage M. Reassembling Social Science Methods: The Challenge of Digital Devices. *Theory, Culture & Society*. 2013 Jul 1;30(4):22-46.

196.

Ford H. Big Data and Small: Collaborations between ethnographers and data scientists. *Big Data & Society*. 2014 Jul 1;1(2).

197.

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

198.

Publications | Sciences Po | MedialabSciences Po | Medialab [Internet]. Available from: <http://www.medialab.sciences-po.fr/publication/>