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CURRICULUM VITAE: DONALD ANGUS MACKENZIE

- Born Inverness, Scotland
British Citizen
- Degrees BSc Applied Mathematics, University of Edinburgh, 1972
(First Class Honours; Newton Undergraduate Scholarship in Natural Philosophy; Napier Medal in Mathematics; Carnegie Scholarship)
- PhD, University of Edinburgh, 1978
Thesis: "The Development of Statistical Theory in Britain, 1865-1925: A Historical and Sociological Perspective."
Supervisor: Barry Barnes.
- Posts Lecturer in Sociology, University of Edinburgh, 1975-1988
- Reader in Sociology, University of Edinburgh, 1988-1992
- Professor of Sociology (personal chair), University of Edinburgh, 1992 - present
- Visiting positions Drapers' Company Visiting Lecturer, Deakin University, Australia, August-December 1981
- Lecturer in Science Studies Unit, University of Edinburgh, October 1983 - September 1984
- Visiting Scholar (unpaid), Program in Science, Technology and Society, MIT, September - December 1984
- Chargé de Recherche Associé, Centre de Sociologie de l'Innovation, École Nationale Supérieure des Mines de Paris, July - August 1987
- Visiting Professor of the History of Science, Harvard University, July 1997 - January 1998
- Freier Mitarbeiter, Max-Planck-Institut für Wissenschaftsgeschichte (Berlin), July 2003
- Distinguished Fellow, Institute for Advanced Study, University of Durham, October-December 2008.
- Visiting Fellow, Max Po (Sciences Po, Paris), March 2014.

Professional Awards and Memberships

Abbott Payson Usher Prize of Society for the History of Technology, 1986: for article 10 below.

U.S. Navy Prize in Naval History, 1989: for article 17 below.

Institute of Electrical and Electronic Engineers Life Members' Prize in Electrical History, 1992: for article 24 below.

co-winner, Robert K. Merton Award of the American Sociological Association, 1993: for *Inventing Accuracy* (see below).

Ludwik Fleck Prize of the Society for Social Studies of Science, 1993: for *Inventing Accuracy* (see below).

Robert K. Merton Award of the American Sociological Association, 2003: for *Mechanizing Proof* (see below).

K. William Kapp Prize of the European Association for Evolutionary Political Economy, 2003: for article 53 below.

Viviana A. Zelizer Distinguished Scholarship Award of the American Sociological Association, 2005: for article 53 below.

John Desmond Bernal Prize of the Society for Social Studies of Science and Institute for Scientific Information, 2005.

Chancellor's [i.e. Duke of Edinburgh's] Award for Research, University of Edinburgh, 2006.

British International Studies Association, International Political Economy Group Book Prize, 2007: for *An Engine, not a Camera*.

Viviana A. Zelizer Distinguished Scholarship Award of the American Sociological Association, 2008: for *An Engine, not a Camera*.

Granovetter Award of the American Sociological Association, 2012, for the best article in economic sociology over the previous two years, for article 77 below.

Clarendon Lecturer in Management Studies, University of Oxford, 2007.

Elected Fellow of the Royal Society of Edinburgh, 2001, Fellow of the British Academy, 2004, and Academician of the Academy of Social Sciences in 2011.

Elected Member of the Sociological Research Association, 2015, Honorary Fellow, Institute and Faculty of Actuaries, 2017, and Honorary Member of the Society for the Advancement of Socio-Economics, 2019.

Progress Medal, Society for Progress, 2018, for 'work on performativity in economics'.

Leonardo Da Vinci Medal, Society for the History of Technology, 2022.

Member of Editorial Advisory Boards of *Social Studies of Science*; *Accounting, Organizations and Society*; *Journal of Cultural Economy*; *Studies in History and Philosophy of Science*; *Philosophy and Technology*; *Review of International Political Economy*; *Valuation Studies*; *Nordic Journal of Science and Technology Studies*; *Research in International Business and Finance* and, formerly: *Science, Technology, & Human Values*; *Economy and Society*; *Technology and Culture*; *Sociology*; *History and Technology*; *Knowledge and Society*; *Research in Technology Studies*; *Social Intelligence*; *Capital and Class*; *Journal of Risk Finance*; and Comité de Lecture, *Revue d'Histoire des Mathématiques*.

UK Economic and Social Research Council: member of Society and Politics Research Development Group (1990-91); ad hoc committee on Science Policy Support Group (1990-91); commissioning panel of Virtual Society Initiative (1996-97); commissioning panel of World Economy and Finance Programme (2004-5).

Society for the History of Technology: member, Usher Prize Committee (1987 and 1988); Chair, Usher Prize Committee (1989); Chair, Awards Committee (1990).

Scientific Advisory Board, *Sciences Po* (2009-2014); Advisory Board, FinWork Futures Research Centre, King's College London (2019-present).

ESRC Professorial Fellowships Panel (2012).

Society for Social Studies of Science, Bernal Prize Committee (2013-14).

Research Grants

UK Social Science Research Council (SSRC)

Documentary Research in Karl Pearson Archive [HR 5258]
December 1977-September 1978 £275

Nuffield Foundation

The Development of Strategic Missile Guidance Technology
September 1984 - August 1985 [SOC/181(1201)] £2,972
September 1985 - March 1987 [SOC/442] £19,416

The Development of Inertial Guidance and Navigation in the Soviet Union
May 1988 - September 1989 [SOC/181(1705)] £1,432

Fungible Carbon (Mentor on New Career Development Fellowship, Heather Lovell)
October 2008 – August 2012 [NCF/35037] £166,553

UK Economic and Social Research Council (ESRC)

The Management of Technical Uncertainty
January 1987 - March 1987 [F24250027] £2,000

Programme in Information and Communication Technologies (PICT):
Phase One (with F. Bechhofer, M. Fransman, D. Edge, J. Fleck and R. Williams)
October 1987 - March 1991 [A35250006] £234,198
(supplemented by c. £70,000 per annum from Universities Funding Council)
Phase Two (with E. Peláez, M. Tierney and R. Williams):
April 1991 - March 1994 [WA35250006] £132,000
(supplemented by c. £50,000 per annum from UFC)

National Laboratories, Arms Dynamics and Civil Science and Technology
[Y307253006]
April 1989 - December 1991 £59,372

The Environmental Impact of Military Activity: Low Flying and Public Opinion
(with C. Bell and M. Spaven) [R00231980]
November 1989 - October 1991 £49,440

Studies in the Sociology of Proof (with A. Bundy) [R000234031]
July 1993 - February 1995 £48,500

From Invention to Innovation: Technology Transfer and the British Technology
Group (with G. Spinardi, W. Faulkner and R. Williams) [R000236784]
October 1996 - September 1999 £205,888

Military and Civil Innovation and the Defence Technology Base: UK Radar,
1945-2000 (with G. Spinardi) [R000238555]
November 2000 – October 2003 £253,684

Rolling through the Twentieth Century: A Historical Sociology of the Wheelchair
(with B. Woods and N. Watson) [L218252007]
January 2001 – December 2003 £160,350

INNOGEN: ESRC Centre for Social and Economic Research on Innovation in
Genomics (with J. Tait et al.)
Phase 1, October 2002 - September 2007: £2,137,831 [RES-145-28-1004]
Phase 2, October 2007 - March 2014: £5,153,508 [RES-145-28-0002]

Professorial Fellowship in Social Studies of Finance
April 2004 – March 2007 £382,128 [RES-051-27-0062]

Technical Knowledge and Arms Dynamics: A Sociology of Ballistic Missile
Defence (with G. Spinardi)
September 2005 – August 2008 £298,938 [RES-051-27-0062]

Understanding and Governing Complex Financial Instruments: A "Social Studies
of Finance" Investigation of Multi-Name Credit Derivatives (with I. Hardie)
September 2009 – May 2013 £282,497 [RES-062-23-1958]

Revolution in the Sky? Commercial Airliner Technology and the Greening of Air
Travel (with G. Spinardi)

April 2010 – March 2013 £241,470 [RES-062-23-2379]

A Material Sociology of High-Frequency Trading (with I. Hardie and J.P. Pardo-Guerra)

Jan 2018 – Dec 2022 £411,398 [ES/R003173/1]

Online Advertising: Data, Materiality, Systematicity and Power (with C. Rommerskirchen and K. Caliskan)

April 2022 – March 2027 £513,282 [ES/V015362/1]

UK Science and Engineering Research Council (SERC)/ UK Safety Critical Systems Research Programme

Communication in Safety Cases: A Semantic Approach (with S. Anderson, G. Cleland, A. Bundy, D. Robertson, K. Stenning) [GR/J58619]

July 1993 - June 1996 £572,447

ESRC/SERC Joint Committee

Social Processes in the Development of High-Integrity Computer Systems (with S. Anderson, B. Carré, M. Tierney) [GR/H74452]

October 1992 - September 1995 £139,118

As part of the reorganisation of the Research Councils, Joint Committee projects were transferred to ESRC in 1994. The remaining part of this project became ESRC grant R000290008

January 1994 - December 1996 £88,534

UK Engineering and Physical Sciences Research Council (EPSRC)

Understanding Software Architecture (with S. Anderson and K. Stenning) [GR/L37953]

June 1997 - May 2000 £158,755

DIRC: Interdisciplinary Research Collaboration on the Dependability of Computer-Based Systems (with C. Jones, S. Anderson, R. Williams, et al.) [GR/N13999]

July 2000 – June 2006 £7,800,000

(of which c. £1 million to Edinburgh)

INDEED: Interdisciplinary Design and Evaluation of Dependability (with S. Anderson et al.) [EP/E001297/1]

July 2006 – June 2010 £392,988

Scottish Higher Education Funding Council

Scottish Universities Policy Research and Advice Network: Science, Technology and Environment (with R. Williams, J. Tait et al.)

October 1998 – September 2001 £200,000

October 2001 – September 2002 £59,327

Ove Arup Foundation/Royal Academy of Engineering

Integrating Technical and Social Aspects of Fire Safety Engineering Expertise
(ITSAFE) (with R. Williams et al.)
September 2012 – August 2016 £400,000

European Research Council

Advanced Investigator Grant: Evaluation Practices in Financial Markets (EPIFM)
[FP7-291733]
September 2012 – August 2018 € 2,175,252

Teaching Experience

(University of Edinburgh unless otherwise stated. Currently, my time is fully committed to, and funded by, the ESRC research grant on online advertising, listed above.)

Past

Introductory: Sociology 1a, unit 1 (“No Such Thing as Society?”)
and unit 4 (“Transnationalism, Culture, and Global Society”)
Sociology 2b (“Researching the Global”)
Digital Markets and Society
Economic Sociology: Theories and Enquiries
Finance and Society
Modelling, High-Frequency Trading and the Sociology of Finance

Pre-Honours: Sociology 3; Technology and Society 2; Science
Studies 2B (Sociology of Science).

Honours: Doing Survey Research, Sociology of Knowledge and
Culture, Marxist Social Theory, Sociology of Mathematics,
Nuclear Weapons and Society, Armed Force and Society,
Technology and Society, Cultures and Politics of Financial
Markets, Sociology of the Environment and Risk.

The Sociology of Technology and Science (University of
Pennsylvania graduate option, 1985).

Nature and Human Nature (Deakin University extension course,
course consultant, 1981).

History of Science 188v: Technology, History, and Society
(Harvard University, 1997).

History of Science 287v: Technology, Mathematics, and the
Sociology of Knowledge (Harvard University, 1997).

Publications

Books

1. Donald MacKenzie, *Statistics in Britain, 1865-1930: The Social Construction of Scientific Knowledge* (Edinburgh: Edinburgh University Press, 1981). 306 + viii pp. ISBN: 0-85224-369-3
2. Donald MacKenzie, *Inventing Accuracy: A Historical Sociology of Nuclear Missile Guidance* (Cambridge, Mass.: MIT Press, 1990). 464 + xiii pp. ISBN: 0-262-13258-3. Edited version of chapter 7 reprinted as “Nuclear Missile Testing and the Social Construction of Accuracy,” in Mario Biagioli, ed., *The Science Studies Reader* (New York: Routledge, 1999), 342-57.
3. Donald MacKenzie, *Knowing Machines: Essays on Technical Change* (Cambridge, Mass.: MIT Press, 1996). 338 + ix pp. ISBN: 0-262-13315-6. Includes articles 10, 23, 24, 26, 27, 29, 30, 35 and 37. Part of introductory essay reprinted in Merritt Roe Smith and Gregory Clancey, eds, *Major Problems in the History of American Technology* (Boston: Houghton Mifflin, 1998), 13-15.
4. Donald MacKenzie, *Mechanizing Proof: Computing, Risk, and Trust* (Cambridge, Mass.: MIT Press, 2001). 427 + xi pp. ISBN: 0-262-13393-8
5. Donald MacKenzie, *An Engine, not a Camera: How Financial Models Shape Markets* (Cambridge, Mass.: MIT Press, 2006). 377 + x pp. ISBN: 0-262-13460-8. Rights for Chinese language translation purchased by Commercial Press, Ltd.
6. Donald MacKenzie, *Material Markets: How Economic Agents are Constructed* (Oxford: Oxford University Press, 2009). 228 + x pp. ISBN: 978-0-19-927815-2. Japanese translation as *Kinyuu Shijo no Shakaigaku* (Ryūgasaki: Ryutsu Keizai University Press, 2013).
7. Donald MacKenzie, *Trading at the Speed of Light: How Ultrafast Algorithms Are Transforming Financial Markets* (Princeton, NJ: Princeton University Press, 2021). 282 + xii pp. ISBN: 978-0-691-21138-1. Audiobook version, narrated by Jonathan Cowley: Gildan Media/Audible, 2021. Chinese complex script translation (Taipei: Briefing Press, 2023). Rights for Chinese simplified script (mainland China) purchased by Shanghai University of Finance & Economics Press. Winner of Bronze Medal, Business Technology books, Axiom Awards, 2022.
8. Boelie Elzen and Donald MacKenzie, *The Seymour Cray Era of Supercomputers: From Fast Machines to Fast Codes* (New York: ACM Books, 2025). 263 + xvii pp. ISBN: 979-8-4007-1370-5.

9. Donald MacKenzie and Koray Caliskan (2025) *Inside Digital Advertising: Platforms, Power, and Material Politics* (Cambridge: Polity Press). 248 + vii pp. ISBN: 9-781509-568635.

Co-authored Books/Edited Books

1. *In and Against the State* (London: Pluto Press, 1980; 40th anniversary edition, edited and with introduction by Seth Wheeler: Pluto Press, 2021). Co-authors Cynthia Cockburn, John Holloway, Kathy Jenkins, John MacDonald, Neil McInnes, Jeanette Mitchell, Nicola Murray and Olga Stasinopoulou.
2. *The Social Shaping of Technology* (Milton Keynes: Open University Press, 1985; second edition 1999). Co-edited with Judy Wajcman. First edition: 327 pp. ISBN: 0-335-15027-6. Second edition: 462 + xvii pp. ISBN: 0-335-19914-3. Part of introductory essay of first edition appeared in Greek translation as “E Koinonike Diaplaoss tes Technologias,” in A. Vlachou, ed., *Politike Oikonomia toy Sygchronoy Kapitalismoy* (Athens: Athens University of Economics and Business), pp. 1-41, and in Korean translation as “Muot I k’isul ul hyongsong hanun’ga?” in Seong-Su Song, ed., *Uri eke k’isul iran muot inga?* (Seoul: Nokt’u, 1995), 111-149.
3. *Do Economists Make Markets? On the Performativity of Economics* (Princeton, NJ: Princeton University Press, 2007). Co-edited with Fabian Muniesa and Lucia Siu.
4. (with Diane-Laure Arjaliès, Philip Grant, Iain Hardie and Ekaterina Svetlova) *Chains of Finance: How Investment Management is Shaped* (Oxford: Oxford University Press, 2017).

Journal Articles and Book Chapters

1. (with Barry Barnes) “Biometriker versus Mendelianer: Eine Kontroverse und ihre Erklärung,” *Kölner Zeitschrift für Soziologie und Sozialpsychologie* Sonderheft 18 (1975): 165-96.
2. “Eugenics in Britain,” *Social Studies of Science* 6 (1976): 499-532.
3. “Statistical Theory and Social Interests: a Case-Study,” *Social Studies of Science* 8 (1978): 35-83. French translation as “Comment faire une sociologie de la statistique,” in M. Callon and B. Latour (eds), *Les scientifiques et leurs alliés* (Paris: Pandore, 1985), 121-67. Further reprinted in Callon and Latour (eds), *La Science telle qu’elle se fait: anthologie de la sociologie des sciences de langue anglaise* (Paris: La Découverte, 1991), 200-261. Polish translation as “Teoria Statystyczna a Intersy Społeczne: Studium Przypadku,” in Edmund Mokrzycki, ed., *Mocny Program: Socjologii Wiedzy* (Warsaw: Ifis, 1993), 177-236.
4. “Karl Pearson and the Professional Middle Class,” *Annals of Science* 36 (1979): 125-43.
5. “Eugenics and the Rise of Mathematical Statistics in Britain,” in J. Irvine, I. Miles and J. Evans (eds), *Demystifying Social Statistics* (London: Pluto Press, 1979), 39-50. German translation: “Rasse und Klasse: Eugenik und

- der Aufschwung mathematischer Statistik in Großbritannien,”
Wechselwirkung: Technik, Naturwissenschaft, Gesellschaft No. 15
 (November 1982): 28-30. Dutch translation: “De Eugenetika en de
 Oorsprung van de Mathematische Statistiek,” *Revoluon: Naturwetenschap
 Techniek en Maatschappij* 6 (1981): 55-66. Japanese translation: “Igirisu
 ni okeru yuuseigaku, oyobi suuri tookeigaku no kooryu,” *Kyokoo no tokei*
 (trans. Yooichi Ito, Akiyoshi Tanaka and Masakatsu Nagaya) (Tokyo:
 Azusa), 29-43. Korean translation, Seoul: Rationality and Reality Press,
 1990 (not seen). Revised English version in Ludi Simpson and Danny
 Dorling, eds., *Statistics in Society: The Arithmetic of Politics* (London:
 Arnold, 1998), 55-61.
6. (with Barry Barnes) “On the Role of Interests in Scientific Change,” in R.
 Wallis (ed.), *On the Margins of Science: the Social Construction of
 Rejected Knowledge* (Sociological Review Monograph No. 27, 1979), 49-
 66. Japanese translation as “Paradaimutenkan ni okeru kanshin no
 yakuwari” (trans. Teruo Yokoyama), *Haijo sareru chi* (Tokyo: Seidosha,
 1986), 272-304.
 7. (with Barry Barnes) “Scientific Judgment: the Biometry-Mendelism
 Controversy,” in B. Barnes and S. Shapin (eds), *Natural Order: Historical
 Studies of Scientific Culture* (Beverly Hills, Calif. and London: SAGE
 Publications, 1979), 191-210.
 8. “Sociobiologies in Competition: the Biometrician-Mendelian
 Controversy,” in C. Webster (ed.), *Biology, Medicine and Society 1840-
 1940* (Cambridge: Cambridge University Press, 1981), 243-288.
 9. “Militarism and Socialist Theory,” *Capital and Class*, No. 19 (Spring
 1983): 33-73.
 10. “Marx and the Machine,” *Technology and Culture* 25 (1984): 473-502.
 Korean translation as “Marukus wa k’igye” in Seong-Su Song, ed., *Uri eke
 k’isul iran muot inga?* (Seoul: Nokt’u, 1995) 68-108. Persian translation
 in *Falsafeye Teknolodgi*, ed. and trans. Shapour Etemad (Tehran: Nashre
 Markaz, 1999), 216-258.
 11. “Nuclear War Planning and Strategies of Coercion,” *New Left Review* No.
 148 (November/December 1984): 31-56.
 12. “Missile Accuracy - An Arms Control Opportunity,” *Bulletin of the
 Atomic Scientists* 42/6 (June/July 1986): 11-16.
 13. “Missile Accuracy: A Case Study in the Social Processes of Technological
 Change,” in W.E. Bijker, T.P. Hughes and T.J. Pinch (eds), *The Social
 Construction of Technological Systems: New Directions in the Sociology
 and History of Technology* (Cambridge, Mass. and London: MIT Press,
 1987), 195-222. 25th anniversary edition reprint, June 2012.
 14. “The Problem with ‘The Facts’: Nuclear Weapons Policy and the Social
 Negotiation of Data,” in R. Davidson and P. White (eds), *Information and
 Government* (Edinburgh: Edinburgh University Press, 1988), 232-51.

15. (with W. Rüdig and G. Spinardi) "Social Research on Technology and the Policy Agenda: An Example from the Strategic Arms Race," in B. Elliott (ed.), *Technology and Social Change* (Edinburgh: Edinburgh University Press, 1988), 152-80. Reprinted in *Rivista di Studie Epistemologici e Sociali sulla Scienza e la Tecnologia* 2 (1992) 167-95.
16. "The Soviet Union and Strategic Missile Guidance," *International Security* 13(2) (Fall 1988): 5-54. Reprinted in S. M. Lynn-Jones, S. E. Miller and S. Van Evera (eds), *Soviet Military Policy* (Cambridge, Mass. and London: MIT Press, 1989), 231-80.
17. (with G. Spinardi) "The Shaping of Nuclear Weapon System Technology: US Fleet Ballistic Missile Guidance and Navigation, I: From Polaris to Poseidon," *Social Studies of Science* 18 (1988): 419-63; "II: 'Going for Broke' - The Path to Trident II," *Social Studies of Science* 18 (1988): 581-624.
18. "Stellar-Inertial Guidance: A Study in the Sociology of Military Technology," in E. Mendelsohn, M. Roe Smith and P. Weingart (eds.), *Science, Technology and the Military: Sociology of the Sciences Yearbook* 12 (1988) (Dordrecht: Reidel, 1988), 187-241.
19. (with G. Spinardi) "Politics and Technology in the Arms Race: A Case-Study in the History of Nuclear Weapons Systems," in R. P. W. Visser et al. (eds), *New Trends in the History of Science* (Amsterdam: Atlanta, 1989), 121-43.
20. "From Kwajalein to Armageddon? Testing and the Social Construction of Missile Accuracy," in D. Gooding, T. Pinch and S. Schaffer (eds), *The Uses of Experiment: Studies in the Natural Sciences* (Cambridge: Cambridge University Press, 1989), 409-35.
21. "Towards an Historical Sociology of Nuclear Weapons Technologies," in Nils Petter Gleditsch and Olav Njølstad (eds), *Arms Races: Technological and Political Dynamics* (London: SAGE, 1990), 121-39.
22. "Notes Towards a Sociology of Supercomputing," in Todd R. La Porte (ed.), *Social Responses to Large Technical Systems: Control or Anticipation* (Dordrecht: Kluwer, 1991), 159-75.
23. (with Boelie Elzen) "The Charismatic Engineer: Seymour Cray and the Development of Supercomputing," *Jaarboek voor de Geschiedenis van Bedrijf en Techniek* 8 (1991): 248-77.
24. "The Influence of the Los Alamos and Livermore National Laboratories on the Development of Supercomputing," *Annals of the History of Computing* 13 (1991): 179-201.
25. "Formal Methods and the Sociology of Proof," in J.M. Morris and R.C. Shaw, eds, *Proceedings of the Fourth Refinement Workshop* (London: Springer, 1991), 115-124.

26. “Economic and Sociological Explanation of Technological Change,” in R. Coombs, P. Saviotti and V. Walsh, eds., *Technological Change and Company Strategies: Economic and Sociological Perspectives* (London: Academic Press, 1992), 25-48.
27. “Computers, Formal Proof and the Law Courts,” *Notices of the American Mathematical Society* 39 (1992): 1066-69.
28. “Negotiating Arithmetic, Constructing Proof: The Sociology of Mathematics and Information Technology,” *Social Studies of Science* 23 (1993): 37-65. Reprinted in Massimo Mazzotti (ed.), *The History of Science, Volume V: The Modern Physical and Mathematical Sciences* (London: Routledge, 2020).
29. “From the Luminiferous Ether to the Boeing 757: A History of the Laser Gyroscope,” *Technology and Culture* 34 (1993): 475-515.
30. (with Boelie Elzen) “From Megaflops to Total Solutions: The Changing Dynamics of Competitiveness in Supercomputing,” in William Aspray (ed.), *Technological Competitiveness: Contemporary and Historical Perspectives on the Electrical, Electronics, and Computer Industries* (New York: IEEE Press, 1993), 119-51.
31. “The Social Negotiation of Proof: An Analysis and a further Prediction,” in Peter Ryan and Chris Sennett, eds, *Formal Methods in Systems Engineering* (London: Springer, 1993), 23-31.
32. (with Graham Spinardi) “The Technological Impact of a Defence Research Establishment,” in Richard Coopey, Matthew R. H. Uttley and Graham Spinardi (eds), *Defence Science and Technology: Adjusting to Change* (Reading: Harwood, 1993), 85-124.
33. (with Boelie Elzen) “The Social Limits of Speed: The Development and Use of Supercomputers,” *IEEE Annals of the History of Computing* 16 (1994): 46-61.
34. “Computer-Related Accidental Death: An Empirical Exploration,” *Science and Public Policy* 21 (1994): 233-48.
35. “Ordinateurs et Missiles de Croisières: La Sociologie des Techniques Contemporaines,” in Bruno Latour and Pierre Lemonnier (eds), *De La Préhistoire aux Missile Balistiques: L’Intelligence Sociale des Techniques* (Paris: La Découverte, 1994), 132-48.
36. (with Graham Spinardi) “Tacit Knowledge, Weapons Design, and the Uninvention of Nuclear Weapons,” *American Journal of Sociology* 101 (1995): 44-99. Reprinted in Nathalie Lazaric and Edward Lorenz, eds., *Knowledge, Learning and Routines* (Cheltenham: Elgar 2003), vol. 1, 142-197. Reprinted in Maria Rost Rublee and Ramesh Thakur (eds), *Nuclear Politics* (Sage, 2014), volume 4, chapter 10.

37. “The Automation of Proof: A Historical and Sociological Exploration,” *IEEE Annals of the History of Computing* 17 (3) (1995): 7-29.
38. (with George Cleland) “The Industrial Uptake of Formal Methods in Computer Science: An Analysis and a Policy Proposal,” *Science and Public Policy* 22 (1995): 369-82.
39. “How do we Know the Properties of Artefacts? Applying the Sociology of Knowledge to Technology,” in Robert Fox (ed.), *Technological Change: Methods and Themes in the History of Technology* (London: Harwood, 1996), 247-63. French translation as “Histoire des techniques et sociologie de la connaissance,” *Annales: histoire, sciences sociales*, special issue, “Histoire des techniques,” year 53, nos. 4-5 (July-Oct. 1998): 795-814. Chinese translation as “Zhishi shehuixue zai jishu yanjiu zhong de yingyong: ruhe renshi rengongwu de texing?” (trans. Weiwen Duan), in Dengxiang Yin, Robin Williams, Xiaobai Shen and Kong Mangan (eds.), *Jishu de Shehui Xinchebg* (Beijing: Capital Normal University Press, 2004), 89-111. Russian translation as “Istorija tehnologii i sociologija znaniya,” in *Ontologii artefactov: vzaimodeistvie estestvennyh i iskusstvennyh komponentov zhiznennogo mira*, edited by Olga Stoliarova (Moscow: Delo, 2011).
40. “Proof and the Computer: Some Issues Raised by the Formal Verification of Computer Systems,” *Science and Public Policy* 23 (1996): 45-53.
41. “Computers, ‘Bugs’, and the Sociology of Mathematical Proof,” in William H. Dutton (ed.), *Information and Communication Technologies: Visions and Realities* (Oxford: Oxford University Press, 1996), 69-85. Also appeared as “Computer, ‘Bag’ oyobi suugakuteki shomei no shakaigaku,” in Dutton, ed., *Jyohou tsushin tekunoroji*, trans. Takeshi Hiromatsu et al. (Tokyo: Fujitsu Books, 1998), volume 1, 99-120.
42. (with Malcolm Peltu, Stuart Shapiro and William H. Dutton) “Computer Power and Human Limits,” in William H. Dutton (ed.), *Information and Communication Technologies: Visions and Realities* (Oxford: Oxford University Press, 1996), 177-95. Also appeared as “Computer pawa to ningen no genkai,” in Dutton, ed., *Jyohou tsushin tekunoroji*, trans. Takeshi Hiromatsu et al., (Tokyo: Fujitsu Books, 1998), volume 2, 75-97.
43. (with Margaret Tierney) “Safety-Critical and Security-Critical Computing in Britain: An Exploration,” *Technology Analysis and Strategic Management*, 8 (1996): 355-79.
44. (with Garrel Pottinger) “Mathematics, Technology, and Trust: Formal Verification, Computer Security, and the U.S. Military,” *IEEE Annals of the History of Computing* 19 (3) (1997): 41-59.
45. “Slaying the Kraken: The Sociohistory of a Mathematical Proof,” *Social Studies of Science* 29 (1999): 7-60. Erratum, *ibid.*, 317-18, Corrigendum, *ibid.*, 30 (2000): 317-18.

46. "Theories of Technology and the Abolition of Nuclear Weapons," in Olivier Coutard et al. (eds), *The Governance of Large Technical Systems* (London: Routledge, 1999), 173-98, and in MacKenzie and Wajcman (eds), *The Social Shaping of Technology* (Buckingham: Open University Press, second edition, 1999).
47. "The Science Wars and the Past's Quiet Voices," *Social Studies of Science* 29 (1999): 199-213, also "The Zero-Sum Assumption: Reply to Sullivan," *Social Studies of Science* 29 (1999): 223-34.
48. "A Worm in the Bud? Computers, Systems, and the Safety-Case Problem," in Agatha C. Hughes and Thomas P. Hughes, eds., *Systems, Experts, and Computers: The Systems Approach in Management and Engineering, World War II and After* (Cambridge, Mass.: MIT Press, 2000), 161-90.
49. "Physics and Finance: S-Terms and Modern Finance as a Topic for Science Studies," *Science, Technology, & Human Values* 26 (2001): 115-144. Reprinted in Ash Amin and Nigel Thrift (eds), *The Blackwell Cultural Economy Reader* (Oxford: Blackwell, 2004), 101-120.
50. "A View from the Sonnenbichl: On the Historical Sociology of Software and System Dependability," in Ulf Hashagen, Reinhard Keil-Slawik, and Arthur Norberg (eds.), *History of Computing: Software Issues* (Berlin: Springer, 2002), 97-122.
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- 1976 University of Keele, Project PAREX (Regensburg, Bavaria), British Society for the History of Science.
- 1977 Manchester and Leeds Universities.
- 1978 Past and Present Society/British Society for the History of Science, Technische Universität Berlin.
- 1980 *History Workshop Journal* Conference, British Society for the History of Mathematics, Conference of Socialist Economists, European Association for the Study of Science and Technology (Schloss Deutschlandsberg, Austria).
- 1981 Conference of Socialist Economists; Melbourne, New South Wales, Wollongong, Griffith, Murdoch, Deakin and Adelaide Universities; Australian National University; Australasian Association for the History and Philosophy of Science; CSIRO Mathematics and Statistics Division.
- 1982 University of Sheffield, Conference of Socialist Economists, Universität Bielefeld.
- 1983 British Sociological Association (Scottish Branch).
- 1984 Wissenschaftskolleg Berlin, Middlesex Polytechnic, Technische Hogeschool Twente (Netherlands), University of Pennsylvania, National Museum of American History (Washington, DC), State University of New York at Stony Brook, University of Toronto, MIT.
- 1985 Aston and Stanford Universities, Hampshire College (Amherst, Mass.), XVIIth International Congress of the History of Science (University of California, Berkeley), British Society for the History of Science/British Sociological Association.
- 1986 Leeds, Manchester, Brunel, Bath and Heriot-Watt Universities, Rijksuniversiteit Utrecht, University of Illinois at Urbana-Champaign, Balliol College, Oxford.
- 1987 MIT, King’s College London, Technische Hogeschool Twente, British Sociological Association.
- 1988 International Theory Symposium on Arms Dynamics (Oslo), University of Amsterdam.
- 1989 Cambridge, Cornell and Stanford Universities, University of California, Berkeley.
- 1990 University of Minnesota, University of Manchester, University of Lancaster, Logica (Cambridge), Ltd, Ecole Nationale Supérieure des Mines de Paris.
- 1991 ESRC New Technologies and Firm Initiative (University of Stirling); British Computer Society (Fourth Annual Workshop on Refinement), FM 91.
- 1992 Fondation des Treilles, Society for Social Studies of Science (Gothenburg), DTI ‘Proof’ Club, PICT Software and Systems Practice Conference (Reading), University of York
- 1993 University of Glasgow, Cité des Sciences et de l’Industrie, University of Oxford.

- 1994 University of St. Andrews, University of the Basque Country, European University Institute (Florence), University of Manchester.
- 1995 King's College London, Programme on Information and Communication Technologies final conference (London), Large-Technical Systems (Autun, Burgundy).
- 1996 Dibner Institute (MIT), University of Southampton, Conf. on History of Software Engineering (Schloss Dagstuhl), Conf. on History of Mathematics, German Mathematical Society (Oberwolfach).
- 1997 Stanford, Harvard, Carnegie-Mellon and Cornell Universities, MIT, Vassar College, Keele University.
- 1998 Centre de Recherche en Histoire des Sciences et des Techniques, Univ. of Cambridge, Norwegian Univ. of Science and Technology (Trondheim), Max-Planck-Institut für Wissenschaftsgeschichte (Berlin), Roskilde University, Northern Formal Methods Workshop, Deutsches Museum, Science Policy Research Unit (Univ. of Sussex), York Univ.
- 1999 Max-Planck-Institut für Wissenschaftsgeschichte (Berlin), Colloque Internationale d'Histoire des Mathématiques (Luminy, Marseilles), Harvard and Bucknell Universities, King's College London.
- 2000 University of California (Berkeley), SRI International (Menlo Park, Calif.), International Conference on the History of Computing (Paderborn, Germany), Cardiff and Exeter Universities, Acadia University (Nova Scotia), Technische Hochschule Zurich, Séminaire d'Histoire des Mathématiques (CNRS), École des Mines (Paris).
- 2001 University of Manchester, European Association for Evolutionary Political Economy (Siena), Centre Alexandre Koyré (Paris), University of St. Andrews
- 2002 Lancaster University, DIRC Annual Meeting (Lancaster), City University, "Absent Presence," (Svarta Manor, Finland), London School of Economics. Max-Planck-Institut für Wissenschaftsgeschichte (Berlin), International Network for Economic Methodology (Stirling), University of Newcastle, University of Warwick.
- 2003 University of Konstanz, Deutsches Museum, Stockholm School of Economics (Skebo), Princeton University, Society for Social Studies of Science (Atlanta), University of Oxford, University of Leeds.
- 2004 Universities of Stirling, Oxford, Aberdeen, Cardiff and Manchester; Universitat Pompeu Fabra (Barcelona); Society for Social Studies of Science (Paris); École des Mines; Royal Society of London; Harvard University (History of Science Dept.); Harvard-MIT Economic Sociology Group; History of Science Society (Austin, Texas).
- 2005 British Academy, Economic Geography Research Group (Royal Geographical Society), University of Sussex, London School of Economics, Open University, David Hume Institute, Society for Social Studies of Science (Pasadena), University of Essex, Goldsmiths College, Max-Planck-Institut für Gesellschaftsforschung (Cologne), Johann Wolfgang Goethe-Universität (Frankfurt am Main).
- 2006 British Bankers Association (workshop on LIBOR); Workshop on "New Actors in a Financialised Economy" (London); Social Studies of Finance Group (Paris); Society for the Advancement of Socio-Economics (Trier); American Sociological Association (Montréal); Universidade Técnica de Lisboa
- 2007 London School of Economics (2 talks), University of Salford, University of Durham (4 talks), University of Oxford, Cerisy-la-Salle (conference on work of Bruno Latour), European Sociological Association, King's College London.
- 2008 Fondation des Treilles, University of Oxford, "Performing Markets" workshop (Schloss Hirschberg, Bavaria), Copenhagen Business School, National Bank of Greece.

- 2009 Max-Planck-Institut für Wissenschaftsgeschichte (Berlin), Sciences Po, Centre Alexandre Koyré, University of Aberdeen, Stanford University, Third Villa Vigoni Conference on Economic Sociology and Political Economy (Menaggio, Italy), Interdisciplinary Perspectives on Accounting (Innsbruck, Austria), Critical Finance (Brussels), University of Cambridge, Netherlands Graduate Research School (WTMC), MIT, Columbia University.
- 2010 LSE, Queen Mary University of London, University of Cambridge, "Finance in Question" conference (University of Manchester), Universität Bielefeld, Society for the Advancement of Socio-Economics (Philadelphia), CRESC (St Hugh's College, Oxford), Columbia University, Nuffield College Oxford, Copenhagen Business School.
- 2011 University of Newcastle, British Sociological Association, University of St. Andrews, 64th CFA Institute Annual Conference, COST Action IS0902 (Paris), Science Policy Research Unit (University of Sussex), Fondation des Treilles, 14th International Congress of Logic, Methodology and Philosophy of Science (Nancy), European Sociological Association (Geneva); University of Chicago; Northwestern University; Princeton University; University of Pennsylvania.
- 2012 King's College London, Harvard University (Department of History of Science), Harvard/MIT Economic Sociology Seminar, University of Michigan at Ann Arbor (STS Program), Harvard Business School, Princeton University, Jane Street [New York trading firm], Society for Social Studies of Science (Copenhagen), Ruprecht-Karls-Universität Heidelberg.
- 2013 London School of Economics, University of Leicester, Cambridge University, University of Pennsylvania, Durham University, New York Stock Exchange, American Sociological Association.
- 2014 University College London, London School of Economics, Sciences Po, Medialab Prado (Madrid), Columbia University, University of Cambridge, 3rd Interdisciplinary Market Studies Workshop (Saint Maximin la Sainte Baume, Provence), Bank for International Settlements, Université Paris-Ouest, Northwestern University, Copenhagen Business School.
- 2015 University of Cambridge, University of Durham, HEC (Ecole des Hautes Etudes Commerciales de Paris), British Sociological Association, Algorithms Network (Stockholm archipelago), London School of Economics, University of Konstanz, University of Hanover, Open University, Haus der Kulturen der Welt (Berlin), Institut Marcel Mauss.
- 2016 University of Namur, Alan Turing Institute (British Library), Stockholm School of Economics, Sapienza Università di Roma, 4th Interdisciplinary Market Studies Workshop (St Andrews), Harvard University, Boston Economic Club, Microsoft Research (New England), Institut Bachelier.
- 2017 European Business School (Paris), London School of Economics (Comte Memorial Lecture), Bank of England, Meridian 180 Forum (Brussels), Library of Mistakes (Edinburgh), Princeton University, University of California at Berkeley.
- 2018 University of Glasgow, Sciences Po, Maison des Sciences de l'Homme, Kings College London, Commodity Futures Trading Commission (Washington DC), New School, Futures of Finance and Society (Finance and Society Network Annual Conference).
- 2019 École Supérieure des Sciences Economiques et Commerciales, King's College London, Society for the Advancement of Socio-Economics (New School, New York), Sciences Po, Public Debt Management Conference (Paris: OECD, Italian Treasury, World Bank), Academia Nazionale dei Lincei (Rome).
- 2020 University of Cambridge.
- 2021 (both online) Society for Social Studies of Science, Phinance (Philosophy & Finance Network).

- 2022 In person: New York University, New School, Society for the History of Technology (New Orleans). Online: Societat Catalana d'Història de la Ciència i de la Tècnica, Université Lavale (Québec), Tel Aviv University, Peking University.
- 2023 In person/hybrid: King's College London, Columbia University, Global ARC (Boston), Optiver (Amsterdam). Online: VäSTS GU/Chalmers STS Seminar (Gothenburg).
- 2024 In person/hybrid: New School, Columbia University, Copenhagen University, 17th International Behavioral Finance Conference (London). Online: Phinance (Philosophy & Finance Network), Society for Social Studies of Science (Amsterdam).
- 2025 In person: 8th Interdisciplinary Market Studies Workshop (Stockholm School of Economics), New School. In person/hybrid: University of Lancaster, Columbia University. Online: Universität Siegen, Bristol University.
- 2026 Online: University of Milan.

PhD Theses Supervised (all University of Edinburgh)

- 1980 Stephen Jacyna, Scientific Naturalism in Victorian Britain: An Essay in the Social History of Ideas. First supervisor: Steven Shapin.
- 1986 John Mattausch, A Commitment to Campaign: A Sociological Study of CND. Second supervisor: Frank Bechhofer.
- 1987 Paul Underhill, Science, Professionalism and the Development of Medical Education in England: An Historical Sociology.
- 1987 Dale Stout, Statistics in American Psychology: The Social Construction of Experimental and Correlational Psychology, 1900-1930. First supervisor: John Beloff.
- 1987 Alfonso Molina, The SocioTechnical Basis of the Microelectronics Revolution: A Global Perspective. Second supervisor: David Edge.
- 1988 Eloína Peláez, A Gift from Pandora's Box: The Software Crisis. Second supervisor: Stuart Anderson.
- 1988 Graham Spinardi, The Development of Fleet Ballistic Missile Technology from Polaris to Trident.
- 1990 Anne Elder, Breathing Life into the Wooden Model: A Participant Observation Study of Technical Change.
- 1991 Mikel Olazaran, A Historical Sociology of Neural Network Research. Other supervisors: James Fleck and Alfonso Molina.
- 1997 Donald Hislop, Capabilities, Strategy and Environment: Organizational Change in the UK's Defence Industrial Base, 1989-95. Second supervisor: Jan Webb.
- 1998 Alex Law, Dimensions of Restructuring: State, Capital and Labour in the Defence Industry in Scotland. Second supervisor: David McCrone.
- 1999 Brian Woods, Revolutionaries and Bureaucrats: A Socio-Technical History of the U.S. Space Shuttle. Second supervisor: Graham Spinardi.
- 2001 Takuji Hara, Technological Change in the Pharmaceutical Industry. Second supervisor: Graham Spinardi.
- 2002 Sarah Glover, Shaping the 'Right Stuff': Gender, Technology, and the Cultures of Aviation. First supervisor: Wendy Faulkner.

- 2004 Yuval Millo, Where do Financial Markets come from? Historical Sociology of Financial Derivatives Markets. Second supervisor: David Bloor.
- 2004 Sang-Hyun Kim, Making the Science of Global Warming: A Social History of Climate Science in Britain, 1950-1990. Second supervisor: David Bloor.
- 2005 Aaron Wilson, Easier Done than Said: A Sociological Analysis of Tacit Knowledge in Railway Maintenance Systems. Second supervisor: Felix Schmidt.
- 2007 Iain Hardie, Trading the Risk: Financialisation, Loyalty and Emerging Market Government Policy Autonomy. Second supervisor: David Howarth.
- 2007 David Stearns, Think of it as Money: A History of the Visa Payment System, 1970-1984. Second supervisor: Luciana d'Adderio.
- 2008 Lucia Siu, Cadres, Gangs and Prophets: The Commodity Futures Markets of China. Second supervisor: James Clunie.
- 2008 David Leung, Accounting in the Wild: An Adventure in Ethnoaccountancy. Second supervisor: David Hatherly.
- 2009 Tzung-De Lin, Japan Fuzzified: The Development of Fuzzy Logic in Japan. Second supervisor: Graham Spinardi.
- 2009 James Clunie, Indirect Short-Selling and Predatory Constraints. First supervisor: Peter Moles.
- 2009 Svetlana Milyaeva, Making Markets, Making Laws: Non-Deliverable Currency Forwards and the Amendment to Article 1062 of the Russian Civil Code. Second supervisor: Alex Preda.
- 2010 Juan Pablo Pardo-Guerra, Computerising Gentlemen: the Automation of the London Stock Exchange, c. 1945-1995. Second supervisor: Alex Preda.
- 2012 Laura Mann, The Retreat of the State and the Market: Liberalisation and Education Expansion in Sudan under the NCP. Original supervisors: Sara Dorman and Francesca Locatelli.
- 2013 Paul Kelly, Biplane to Monoplane: Twenty Years of Technological Development in British Fighter Aircraft, 1919-1939. First supervisor: Graham Spinardi.
- 2013 Laur Kanger, Domestic PC Production in Soviet Baltic States 1977-1992. Second supervisor: Robin Williams.
- 2014 Yu-Hsiang Chen, What is Behind Markets? A Sociological Study of Taiwan's Stock Market. Second supervisor: Francesca Bray.
- 2014 Javier Hernandez, Financial Services and Social Structures: A Comparative Analysis. Original supervisor: Alex Preda.
- 2014 Taylor Spears, Engineering Value, Engineering Risk: What Derivatives Quants Know and What Their Models Do. Second supervisor: Alex Preda.
- 2014 Gill Davies, Markets for Renewable Energy. First supervisor: Tom Molony.
- 2015 Vasilis Tsiatouras, Mathematics and the USSR: Organising a Discipline. Second supervisor: Alex Preda.
- 2016 Friedrich Eierdanz, The Beautiful Game Quantified? A Sociological Study of Performance Analysis in Professional Football. Original supervisor: Alex Preda.

- 2016 Lorenzo Lane, The Bridge Between Worlds: Relating Position and Disposition in the Mathematical Field. Second supervisor: Jane Calvert.
- 2017 Emilia Sereva, Thinking with Elias about British Independent Funeral Firms. First supervisor: Liz Stanley.
- 2017 Ko-Kang Chien, Consolidation and Fluidification: The Milkfish Assemblage Across the Taiwan Strait. Second supervisor: Francesca Bray.
- 2017 Sarah Ruggins, Building Blocks: The Innovation and Regulation of Exchange-Traded Funds. Second supervisor: Iain Hardie.
- 2019 Théo Bourgeron, Constructing Legitimacy: An Ethnography of the Struggle for Financial Capital in Two Paris-Based Private Equity Funds. Second supervisor: Valérie Boussard.
- 2019 Arjen van der Heide, Dealing with Uncertainty: A Historical Sociology of Evaluation Practices in UK Life Insurance, 1971-Present. Second supervisor: Iain Hardie.
- 2020 Patrick Jahnke, The Agency Problem in Corporate Responsibility. First supervisor: Iain Hardie.
- 2020 Bryce Zedalis, OTC Commodity Derivative Rulemaking at the CFTC, 2010-2016: A Cultural Political Economy Approach. Co-supervisor: Jay Wiggan.
- 2021 Taya Collyer, Depth and Breadth: A Mixed-Method Investigation of Disciplinary Approaches to Health Inequalities and Health Disparities Research. First supervisor: Katherine Smith.
- 2022 Julius Kob, Realising Catastrophe: The Financial Ontology of the Anthropocene. Second supervisor: Nathan Coombs.
- 2022 Dylan Cassar, Inscribing Markets, Shaping Policy: A Sociological Investigation into the Yield Curve. Second supervisor: Nathan Coombs.
- 2024 Elif Buse Doyuran, Nudging the Internet: Behavioural Expertise in the Platform Economy. Second supervisor: Liz McFall.
- ongoing Shuran Wen, The Platformisation of Ride Services in China: An Ethnography of the 'Taxi Villages' in Shenzhen from a Social-Technical Agencement Perspective. Co-supervisor: Nathan Coombs.