

Stanford



Paul N. Edwards

Senior Lecturer in the Program in Science, Technology and Society
Inter-Departmental Programs

 Curriculum Vitae available Online

Bio

BIO

I'm Director of the Program on Science, Technology & Society (STS) and a William J. Perry Fellow in International Security at the Center for International Security and Cooperation at Stanford. I also co-direct the Stanford Existential Risks Initiative with Prof. Steve Luby.

I'm Professor of Information and History (Emeritus) at the University of Michigan, where I worked for almost 20 years in the School of Information, the Dept. of History, and the STS Program. I taught previously at Stanford from 1992-1998 in various capacities, mainly in the Science, Technology & Society Program that I now direct.

I study the history, politics, and culture of information infrastructures, especially climate knowledge systems. My books include *A Vast Machine: Computer Models, Climate Data, and the Politics of Global Warming* (MIT Press, 2010), *The Closed World: Computers and the Politics of Discourse in Cold War America* (MIT Press, 1996), and *Changing the Atmosphere: Expert Knowledge and Environmental Governance* (MIT Press, 2001, co-edited with Clark Miller). I'm academic editor of the MIT Press book series *Infrastructures*.

From 2018-2021, I served as one of 234 Lead Authors for the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, Working Group I (Physical Sciences), released in August 2021.

ACADEMIC APPOINTMENTS

- Senior Lecturer, Inter-Departmental Programs
- Sr Research Scholar, Center for International Security and Cooperation

ADMINISTRATIVE APPOINTMENTS

- Director, Program in Science, Technology & Society, (2019- present)

HONORS AND AWARDS

- Distinguished Faculty Fellow in Sustainability, Graham Institute, University of Michigan (2016-17)
- Senior Fellow, Michigan Society of Fellows (2016-17)
- Resident Fellow, Institute for Advanced Study in Media Cultures of Computer Simulation, Leuphana University (2015)
- Louis J. Battan Author's Award, American Meteorological Society (2013)
- Computer History Museum Book Prize, Society for the History of Technology (2011)
- Carnegie Scholar, Carnegie Corporation of New York (2003-04)

- Guggenheim Fellow, John Simon Guggenheim Memorial Foundation (2003-04)

PROGRAM AFFILIATIONS

- Program in History & Philosophy of Science
- Science, Technology and Society

PROFESSIONAL EDUCATION

- PhD, University of California, Santa Cruz , History of Consciousness (1988)
- BA, Wesleyan University , Language and Mind (1980)

Teaching

COURSES

2021-22

- Climate Politics: Science and Global Governance: HISTORY 202J, INTLPOL 271 (Aut)
- Curricular Practical Training: STS 199A (Win, Spr)
- Preventing Human Extinction: THINK 65 (Spr)

2020-21

- Curricular Practical Training: STS 199A (Win, Spr, Sum)
- Politics of Data: Algorithmic Culture, Big Data, and Information Waste: INTLPOL 221 (Win)
- Preventing Human Extinction: THINK 65 (Spr)
- Race in Medicine: AFRICAAM 51C, CEE 151C, CSRE 51C, HUMBIO 71C, STS 51C (Spr)
- Race in Science: AFRICAAM 51A, CEE 151A, COMM 51A, CSRE 51A, HUMBIO 71A, STS 51A (Aut)
- Race in Technology: AFRICAAM 51B, CEE 151B, COMM 51B, CSRE 51B, HUMBIO 71B, STS 51B (Win)
- The Public Life of Science and Technology: CSRE 1T, STS 1 (Win)

2019-20

- Curricular Practical Training: STS 199A (Sum)
- Politics of Data: Algorithmic Culture, Big Data, and Information Waste: INTLPOL 221 (Spr)
- Preventing Human Extinction: THINK 65 (Spr)
- The Public Life of Science and Technology: CSRE 1T, STS 1 (Win)

2018-19

- Climate Politics: Science and Global Governance: HISTORY 202J, INTLPOL 271 (Aut)
- Politics of Data: Algorithmic Culture, Big Data, and Information Waste: INTLPOL 221 (Spr)
- Preventing Human Extinction: THINK 65 (Spr)
- The Public Life of Science and Technology: CSRE 1T, STS 1 (Win)

STANFORD ADVISEES

Master's Program Advisor

Rosie La Puma Lebel

Doctoral Dissertation Co-Advisor (NonAC)

Meghan Shea

Publications

PUBLICATIONS

- **Platforms are Infrastructures on Fire** *Your Computer is on Fire: The Politics of Computing and New Media*
Philip, K.
edited by Mullaney, T. S., Peters, B., Hicks, M.
MIT Press.2021: 313–336
- **Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change**
Masson-Delmotte, V., Zhai, P., et al
Cambridge University Press.2021
- **Knowledge Infrastructures under Siege: Climate Data as Memory, Truce, and Target** *Data Politics: Worlds, Subjects, Rights*
Edwards, P. N.
Routledge.2019
- **We Have Been Assimilated: Some Principles for Thinking About Algorithmic Systems** *Living with Monsters? Social Implications of Algorithmic Phenomena, Hybrid Agency, and the Performativity of Technology*
Edwards, P. N.
Springer.2018: 19–27
- **Infrastructure studies meet platform studies in the age of Google and Facebook** *NEW MEDIA & SOCIETY*
Plantin, J., Lagoze, C., Edwards, P. N., Sandvig, C.
2018; 20 (1): 293–310
- **Producing "one vast index": Google Book Search as an algorithmic system** *BIG DATA & SOCIETY*
Chalmers, M. K., Edwards, P. N.
2017; 4 (2)
- **Knowledge infrastructures for the Anthropocene** *ANTHROPOCENE REVIEW*
Edwards, P. N.
2017; 4 (1): 34–43
- **Big Data Is the Answer ... But What Is the Question?** *OSIRIS*
Strasser, B. J., Edwards, P. N.
2017; 32 (1): 328–45
- **Downscaling From global to local in the climate knowledge infrastructure** *INFRASTRUCTURES AND SOCIAL COMPLEXITY: A COMPANION*
Edwards, P. N., Harvey, P., Jensen, C. B., Morita, A.
2017: 339–51
- **Entangled histories: Climate science and nuclear weapons research** *BULLETIN OF THE ATOMIC SCIENTISTS*
Edwards, P. N.
2012; 68 (4): 28–40
- **AHR Conversation: Historical Perspectives on the Circulation of Information** *AMERICAN HISTORICAL REVIEW*
Edwards, P. N., Gitelman, L., Hecht, G., Johns, A., Larkin, B., Safier, N.
2011; 116 (5): 1392–1435
- **Science friction: Data, metadata, and collaboration** *SOCIAL STUDIES OF SCIENCE*
Edwards, P. N., Mayernik, M. S., Batcheller, A. L., Bowker, G. C., Borgman, C. L.
2011; 41 (5): 667–90
- **History and the Technopolitics of Identity: The Case of Apartheid South Africa** *JOURNAL OF SOUTHERN AFRICAN STUDIES*
Edwards, P. N., Hecht, G.
2010; 36 (3): 619–639

- **A Vast Machine: Computer Models, Climate Data, and the Politics of Global Warming**
Edwards, P. N.
MIT Press.2010
- **Meteorology as infrastructural globalism** *OSIRIS*
Edwards, P. N.
2006; 21: 229–50
- **Infrastructure and Modernity: Force, Time, and Social Organization in the History of Sociotechnical Systems**
Edwards, P. N., Misa, T. J., Brey, P., Feenberg, A.
MIT PRESS.2003: 185–225
- **Changing the Atmosphere: Expert Knowledge and Environmental Governance**
edited by Miller, C. A., Edwards, P. N.
MIT Press.2001
- **The Closed World: Computers and the Politics of Discourse in Cold War America**
Edwards, P. N.
MIT Press.1996
- **Institutions, Infrastructures, and Innovation** *COMPUTER*
Edwards, P. N., King, J.
2021; 54 (1): 103–9
- **Infrastructuration: On Habits, Norms, and Routines as Elements of Infrastructure** *Thinking Infrastructures*
Edwards, P. N.
Emerald Publishing.2019: 355–66
- **Re-integrating scholarly infrastructure: The ambiguous role of data sharing platforms** *BIG DATA & SOCIETY*
Plantin, J., Lagoze, C., Edwards, P. N.
2018; 5 (1)
- **Scientific Babel: How Science Was Done before and after Global English (Book Review)** *AMERICAN HISTORICAL REVIEW*
Book Review Authored by: Edwards, P. N.
2016; 121 (5): 1636–37
- **An Archive for the Future: Paul N. Edwards on Technology, Historiography, Self, and World** *INTERNATIONAL JOURNAL OF COMMUNICATION*
Monea, A., Edwards, P. N.
2016; 10: 3174–85
- **Should I Stay or Should I Go? Alternative Infrastructures in Scholarly Publishing** *INTERNATIONAL JOURNAL OF COMMUNICATION*
Lagoze, C., Edwards, P., Sandvig, C., Plantin, J.
2015; 9: 1052–71
- **Climate Change: Science and Software Introduction** *IEEE SOFTWARE*
Easterbrook, S. M., Edwards, P. N., Balaji, V., Budich, R.
2011; 28 (6): 32–35
- **History of climate modeling** *WILEY INTERDISCIPLINARY REVIEWS-CLIMATE CHANGE*
Edwards, P. N.
2011; 2 (1): 128–39
- **The Technopolitics of Cold War Toward a Transregional Perspective** *ESSAYS ON TWENTIETH-CENTURY HISTORY*
Hecht, G., Edwards, P. N., Adas, M.
2010: 271–314
- **Introduction: An Agenda for Infrastructure Studies** *JOURNAL OF THE ASSOCIATION FOR INFORMATION SYSTEMS*
Edwards, P. N., Bowker, G. C., Jackson, S. J., Williams, R.
2009; 10 (5): 364–74

- **Revolutionary secrets - Technology's role in the South African anti-apartheid movement** *SOCIAL SCIENCE COMPUTER REVIEW*
Garrett, R., Edwards, P. N.
2007; 25 (1): 13–26
- **"A vast machine": Standards as social technology** *SCIENCE*
Edwards, P. N.
2004; 304 (5672): 827–28
- **HYPERTEXT AND HYPERTENSION - POSTSTRUCTURALIST CRITICAL-THEORY, SOCIAL-STUDIES OF SCIENCE AND SOFTWARE** *SOCIAL STUDIES OF SCIENCE*
EDWARDS, P. N.
1994; 24 (2): 229–78