

NATALIE B. AVILES

CURRICULUM VITAE

Department of Sociology
University of Virginia
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EMPLOYMENT

University of Virginia	Assistant Professor, Department of Sociology
2019-Present	
Yale University	Yale Presidential Postdoctoral Fellow
2018-2019	Lecturer, Sociology Department Co-Convener, Center for Cultural Sociology
Colby College	Postdoctoral Fellow, Sociology Department
2016-2018	Instructor, Sociology Department

EDUCATION

University of California, San Diego	
2016	Ph.D., Sociology and Science Studies
2011	M.A., Sociology
University of California, Berkeley	
2008	B.A., Sociology Highest Honors, Phi Beta Kappa, Alpha Kappa Delta

SPECIALIZATIONS

Theory | Science and Technology Studies | Health and Medicine | Culture | Comparative-Historical Methods | Political Economy | Organizations | Government and Public Policy

PUBLICATIONS

Book Manuscripts

Natalie B. Aviles. Forthcoming. *An Ungovernable Foe: Science and Policy Innovation in the U.S. National Cancer Institute*. Columbia University Press.

Peer-Reviewed Articles

- Natalie B. Aviles.** Forthcoming. "Environing Innovation: Toward an ecological pragmatism of scientific practice." *Sociological Perspectives*.
- Scheffler, Robin W. and **Natalie B. Aviles.** (2022) "State planning, cancer vaccine infrastructure, and the origins of the oncogene hypothesis." *Social Studies of Science* 52(2): 174-198.
- Natalie B. Aviles.** (2018) "Situated practice and the emergence of ethical research: HPV vaccine development and organizational cultures of translation at the National Cancer Institute." *Science, Technology & Human Values* 43(5): 810-833.
- Natalie B. Aviles** and Isaac Ariail Reed. (2017) "Ratio via machina: Three standards of mechanistic explanation in sociology." *Sociological Methods & Research* 46(4): 715-738.
- Natalie B. Aviles.** (2015) "The little death: Rigoni-Stern and the problem of sex and cancer in 20th century biomedical research." *Social Studies of Science* 45(3): 394-415.
- *Winner of the 2015 Hacker-Mullins Student Paper Award. Science, Knowledge, and Technology Section, American Sociological Association.

Book Chapters

- Natalie B. Aviles.** (2022) "Scientific innovation as envired social learning." In *Agency, Inquiry, and Democracy: The New Pragmatist Social Science*. Eds. Neil Gross, Christopher Winship, and Isaac Ariail Reed. Columbia University Press: pp. 231-255.

Book Reviews

- Natalie B. Aviles.** (2020) "Book Review of *Flatlining: Race, Work, and Health Care in the New Economy* by Adia Harvey Wingfield." *Gender & Society*. Online First: <https://doi.org/10.1177/0891243219896592>

MANUSCRIPTS UNDER REVIEW

Articles

- Xiaoyuan Ma, Eric Pierce, Harsh Anand, **Natalie B. Aviles**, Paul Kunk, and Negin Alemazkoor. "Prediction of Response to Palliative Chemotherapy in Patients with Stage-IV Gastric and Esophageal Cancer Only After Two Cycles of Treatment."

Book Chapters

- Natalie B. Aviles.** "Process Theories and Comparative Sociology: Some Problems and a Solution." In *Comparison After Positivism*. Eds. Damon Mayrl and Nicholas H. Wilson. Accepted at Columbia University Press.

WORKS IN PROGRESS

Article Manuscripts

Natalie B. Aviles. “Public policy leadership and charismatic failure.”

Natalie B. Aviles. “Evading agency capture: Cancer biologicals innovation in the NCI.”

Natalie B. Aviles. “Moving targets in the War on Cancer: A pragmatist theory of innovation as social learning.”

HONORS & AWARDS

- 2015 Hacker-Mullins Student Paper Award, Science, Knowledge, and Technology Section. American Sociological Association.
Certificate of Recognition for Excellence in Undergraduate Mentoring, Sociology Department. University of California-San Diego.
- 2014 TA Excellence Award, Sociology Department. University of California-San Diego.
Distinguished Pass in Field Examinations. University of California-San Diego.
- 2008 Departmental Citation Honorable Mention, Sociology Department. University of California-Berkeley

FELLOWSHIPS & GRANTS

- 2021-2022 Engineering-in-Medicine Seed Grant (with co-PIs Negin Alemazkoo and Paul Kunk). University of Virginia.
- 2020-2021 Bankard Fund for Political Economy. University of Virginia.
- 2018-2019 President’s Visiting Research Fellowship. Yale University.
Fellowship, Center for Cultural Sociology. Yale University.
- 2015-2016 University of California President’s Dissertation Year Fellowship. University of California, San Diego.
Center for the Humanities Dissertation Writing Fellowship. University of California, San Diego.
- 2014-2015 Science Studies Program Research Stipend. University of California, San Diego.
Science Studies Program Travel Grant. University of California, San Diego.
- 2013-2014 Dean of Social Sciences Travel Fund. University of California, San Diego.
Sociology Department Summer Research Grant. University of California, San Diego.
Science Studies Program Research Stipend. (Declined.) University of California, San Diego.

2009-2013 Sociology Department Travel Grant. University of California, San Diego.
San Diego Pre-Doctoral Diversity Fellowship. University of California-San Diego.

TEACHING

University of Virginia

2019- Assistant Professor, Sociology Department

Graduate Courses:

- Sociology of Science

Undergraduate Courses:

- Medical Sociology
- Sociology of Science and Knowledge
- Death and Dying
- Race and Racism in Science
- Universal Health Care: Could it Work Here?

Yale University

2018-2019 Instructor, Sociology Department

“Universal Health Care: Could It Work Here?”

Colby College

2016-2018 Instructor, Sociology Department

“Universal Health Care: Could It Work Here?”

“The Life Sciences and Society”

“Starting a Business or Nonprofit? Lessons from Sociology”

University of California, San Diego

2015-2016 Associate-In Instructor, Sociology Department

“Medical Sociology”

2010-2014 Teaching Assistant, Sociology Department

“Classical Sociological Theory”; “Sociology of Health Care Issues”;

“Introduction to Sociology”; “Introduction to Social Research

Methods”; “Sociology of Scientific Knowledge”

INVITED TALKS (ABRIDGED)

2023 Keynote speaker. 2nd International Conference on the Science of Science and Innovation (ICSSI). Evanston, IL.

2021 “Vaccine Innovation and Public Health Policy in the U.S. National Cancer Institute.” Guest lecture, Graduate course on Healthcare Policy and Reform (Prof. Mary Lunn). M.D./MBA Joint Degree Program, Freeman School of

- Business, Tulane University.
- 2020 “Vaccine Innovation and Public Health Policy in the U.S. National Cancer Institute.” Guest lecture, Graduate course on Healthcare Policy and Reform (Prof. Mary Lunn). M.D./MBA Joint Degree Program, Freeman School of Business, Tulane University.
- 2018 “Governing an Ungovernable Foe: Vaccine Innovation and Public Health Policy in the U.S. National Cancer Institute.”
- Sociology Department Colloquium, University of Virginia. Charlottesville, VA.
 - Sociology Department Colloquium, University of California, Merced. Merced, CA.
 - School of History and Sociology Colloquium, Georgia Institute of Technology. Atlanta, GA.
 - Sociology and Science, Technology, and Society Department Colloquium, Vassar College.
- “Public health policy and scientific statecraft at the U.S. National Cancer Institute.” Initiative for Historical Social Science. State University of New York, Stony Brook. Long Island, NY.
- “Social learning and collective creativity in cancer virus vaccine development in the National Cancer Institute’s Intramural Research Program.” Conference on Policy, Politics and Law of Cancer (History of Cancer workshop). Solomon Center for Health Law and Policy at Yale Law School. New Haven, CT.
- 2017 “Innovation for a cure: Social Learning in the National Cancer Institute’s Vaccine Programs.”
- Sociology Department Colloquium, University of California, Berkeley. Berkeley, CA.
 - Sociology Department Colloquium, University of Chicago. Chicago, IL.
- “Innovation in a ‘culture of planning’: HPV vaccines and translational research in the National Cancer Institute.”
- Sociology Department Colloquium, University of North Carolina, Chapel Hill. Chapel Hill, NC.
 - Science, Technology, and Society Department Colloquium, Virginia Tech. Blacksburg, VA.
- “Pragmatism and social worlds analysis as a lens for studying meso-level processes in STS.” Third Conference on Sociology and Pragmatism: Renewing the Conversation. Radcliffe Institute for Advanced Study at Harvard University. Cambridge, MA.
- 2016 “Organizational cultures of translational research in the National Cancer Institute, 1991-2006.” UCSF Biomedical Knowledge Working Group

Colloquium. San Francisco, CA.

- 2015 “A pragmatic process theory of organizational culture in the National Cancer Institute.” Colby College Sociology Department Colloquium Series. Waterville, ME.
- “Moving targets in the War on Cancer: Toward a pragmatic event-based theory of organizational culture in the National Cancer Institute.” Junior Theorists Symposium. Chicago, IL.
- “The emergence of translational research: Organizational culture and scientific practice at the National Cancer Institute, 1991-2008.” Science Studies Program Colloquium, University of California, San Diego. La Jolla, CA.

CONFERENCE PRESENTATIONS (ABRIDGED)

- 2022 “Theorizing the Bureaucracy in the New Political Sociology of Science: Policy learning and multiple principals in research governance at the U.S. National Cancer Institute.” Annual Meeting of the American Sociological Association. Los Angeles, CA.
- 2021 “Environing Innovation: Pragmatist solutions to problems of heterogeneity and scale in the sociology of science.” Annual Meeting of the American Sociological Association. Virtual meeting.
- 2019 “Governing and ungovernable foe: Vaccines and public health policy at the National Cancer Institute.” Annual Meeting of the Society for Social Studies of Science, New Orleans, LA.
- 2018 “Paper cultures of human cancer virus research in the Special Virus-Leukemia Program, 1958-1969.” Annual Meeting of the American Sociological Association. Philadelphia, PA.
- “Cancer vaccine innovation and the politics of public health disparities at the National Cancer Institute, 1958-2008.” Annual Meeting of the Social Science History Association. Phoenix, AZ.
- 2017 “HPV vaccine development and organizational cultures of translation at the National Cancer Institute, 1991-2008.” Annual Meeting of the American Sociological Association. Montreal, QC.
- “Profit and Public Good in HPV Vaccine Innovation at the National Cancer Institute.” Annual Meeting of the Society for Social Studies of Science, Boston, MA.
- “Managing Cancer and Cancer Researchers: Organizing Cold War Cancer Vaccine Development at the National Cancer Institute.” Annual Meeting of the Science and Democracy Network, Harvard University. Cambridge, MA.
- 2016 “Moving targets in the War on Cancer: A pragmatic process theory of organization in the National Cancer Institute.” Annual Meeting of the American Sociological Association. Seattle, WA.
- 2015 “Ratio via machina: Three standards of mechanistic explanation in

- sociology.” Annual Meeting of the American Sociological Association. Chicago, IL.
- “Outline for a Pragmatic Process Theory of Organizational Culture.” Annual Meeting of the Society for Social Studies of Science. Denver, CO.
- 2014 “The little death: The problem of cancerous sex in twentieth century biomedicine.” Annual Meeting of the American Sociological Association. San Francisco, CA.
- “Explaining HPV vaccine technology: Goal-oriented versus pragmatic models of action.” Annual Meeting of the Pacific Sociological Association. Long Beach, CA.

DEPARTMENTAL SERVICE

- 2020-2021 Advisor. Sociology Department Distinguished Majors Program, University of Virginia.
Sociology Department Colloquium Committee, University of Virginia.
- 2018-2019 Co-Convener. Center for Cultural Sociology Workshop, Yale University.
- 2017-2018 Session sponsor. Colby Liberal Arts Symposium, Colby College.
- 2015 Organizer. Undergraduate Sociology Club Diversity Forum, University of California, San Diego.
- 2014 Graduate Student Representative. Sociology/Science Studies Hiring Committee, University of California, San Diego.
Chair. Ad Hoc Steering Committee for the Graduate Student Community Committee, University of California, San Diego.
Organizer. Graduate Student Conference Planning Committee, University of California, San Diego.

PROFESSIONAL SERVICE

Journals

Reviewer. *American Journal of Sociology (AJS)*; *American Sociological Review (ASR)*; *Sociological Methods & Research (SMR)*; *Gender & Society*; *Social Science & Medicine (SSM)*; *Sociological Perspectives*

Academic Presses

Reviewer. MIT Press.

Granting Agencies

Ad hoc Reviewer. Science, Technology & Society (STS) Program, National Science Foundation (NSF)

PROFESSIONAL MEMBERSHIP

American Sociological Association (ASA)

Social Science History Association (SSHA)

Society for Social Studies of Science (4S)