

# Natalie B. Aviles

## *Curriculum Vitae*

Department of Sociology  
Colby College  
4000 Mayflower Hill  
Waterville, ME 04901  
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## EMPLOYMENT

### Colby College

2016-Present Postdoctoral Fellow, Sociology Department

### University of California, San Diego

2015 Associate-In Instructor, Sociology Department

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## EDUCATION

### University of California, San Diego

2016 Ph.D., Sociology and Science Studies  
Dissertation: "Cancer Research *in Situ*: Organizational Cultures of Vaccine Innovation in the National Cancer Institute's Directed Virus-Cancer Programs, 1961-2008"  
Committee: Martha Lampland (Chair), Richard Biernacki, Jeffrey Haydu, Charles Thorpe, Catherina Gere, Tal Golan

2014 C.Phil., Sociology and Science Studies  
Advanced to Candidacy with Distinction

2011 M.A., Sociology  
Concentration in Science and Medicine

### University of California, Berkeley

2008 B.A., Sociology  
Highest Honors (summa cum laude)  
Phi Beta Kappa

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## RESEARCH SPECIALIZATIONS

Science, Technology, and Society (STS); Sociology of Health and Medicine; Social Theory; Organization Studies; Public Policy; Qualitative Methods

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## PEER-REVIEWED PUBLICATIONS

2018 Aviles, Natalie B. "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*. In press.

2017 Aviles, Natalie B. (first author) and Isaac Ariail Reed. “Ratio via machina: Three standards of mechanistic explanation in sociology.” *Sociological Methods & Research* 46(4): 715-738.

2015 Aviles, Natalie B. 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.

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## MANUSCRIPTS UNDER REVIEW

### Peer-Reviewed Article Manuscripts

Robin W. Scheffler and Natalie B. Aviles. “A paper culture of cancer research: Stabilizing human cancer viruses as administrative objects in the National Cancer Institute Special Virus-Leukemia Program.”

### Book Chapters

“Opening the black box of organizations in Science and Technology Studies: What STS can learn from pragmatist organizational theory and processual sociology.” In *Pragmatism and Sociology: Renewing the Conversation*. Eds. Neil Gross, Christopher Winship, and Isaac Ariail Reed. Revise and resubmit.

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## WRITING IN PROGRESS

### Book Manuscript

*Quartermasters in the War On Cancer: A History of Planning and Innovation at the National Cancer Institute*. In preparation for submission to University of Chicago Press. Book prospectus available.

### Article Manuscripts

“A problem of superposition in sociological theory: Toward a dappled world of mesolevel explanation.” In preparation for submission to *American Sociological Review*. Working paper available.

“Planning for innovation: Collective creativity in cancer virus vaccine development in the National Cancer Institute’s Intramural Research Program.” In preparation for submission to *Social Psychological Quarterly*.

“Moving targets in the War on Cancer: A pragmatist process theory of social learning in the National Cancer Institute.” In preparation for submission to *American Journal of Sociology*.

With Ian Mullins and Vanessa Carels. “Discovering the conservative brain: How political scientists produce evidence of the biological origins of political ideology by adopting controversial technologies from neuroscience.” In drafting stage.

With Ian Mullins, et al. “Politics, Science, and Dread Disease revisited: Modeling partisan effects on federal cancer research funding trends using Bayesian simulations with posterior passing.” In project stage.

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## HONORS AND 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.

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## FELLOWSHIPS AND GRANTS

- 2015-2016 UC President's Dissertation Year Fellowship (\$22,000). University of California-San Diego.  
Center for the Humanities Dissertation Writing Fellowship (\$1,500). University of California-San Diego.
- 2015 Science Studies Program Research Stipend (\$10,000). University of California-San Diego.  
Science Studies Program Travel Grant (\$600). University of California-San Diego.
- 2014 Sociology Department Summer Research Grant (\$5,000). University of California-San Diego.  
Science Studies Program Research Stipend (\$5,000). (Declined.) University of California-San Diego.  
Sociology Department Travel Grant (\$600). University of California-San Diego.  
Dean of Social Sciences Travel Fund (\$600). University of California-San Diego.
- 2009-2013 San Diego Pre-Doctoral Diversity Fellowship (\$18,000/year). University of California-San Diego.

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## INVITED TALKS

- 2018 "Planning for Innovation: Collective creativity in cancer virus vaccine development in the National Cancer Institute's Intramural Research Program." Conference on Policy, Politics and Law of Cancer. 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 Colloquium, University of California, Berkeley. Berkeley, CA.
  - Sociology Colloquium, University of Chicago. Chicago, IL.
- “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.
- “Innovation in a ‘culture of planning’: HPV vaccines and translational research in the National Cancer Institute.” UNC Sociology Department Colloquium Series. Chapel Hill, NC.
- “Innovation in a ‘culture of planning’: HPV vaccines and translational research in the National Cancer Institute.” Virginia Tech Science, Technology, and Society Department Colloquium Series. Blacksburg, VA.
- 2015 “Organizational cultures of translational research in the National Cancer Institute, 1991-2006.” UCSF Biomedical Knowledge Working Group Colloquium. San Francisco, CA.
- “Moving targets in the War on Cancer: 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.” Invited speaker. Junior Theorists Symposium. Chicago, IL.
- “The emergence of translational research: Organizational culture and scientific practice at the National Cancer Institute, 1991-2008.” UCSD Science Studies Program Colloquium Series. La Jolla, CA.

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## CONFERENCE PRESENTATIONS

- 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.
- (With Robin Scheffler) “Managing Cancer and Cancer Researchers: Organizing Cold War Cancer Vaccine Development at the National Cancer Institute.” 15th Annual Meeting of the Science and Democracy Network at 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 (With Isaac Reed) “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.
- “Outline for a pragmatic event-based theory of organization.” Annual Meeting of the UCSD Sociology Department Graduate Student Conference. La Jolla, CA.
- “Explaining HPV vaccine technology: Goal-oriented versus pragmatic models of action.” Annual Meeting of the Pacific Sociological Association. Long Beach, CA.
- 2014 “The little death: The problem of cancerous sex in twentieth century biomedicine.” Annual Meeting of the American Sociological Association. San Francisco, CA.
- “Mechanistic explanation and ontological commitment: Preserving productive tensions in qualitative sociology.” Annual Meeting of the UCSD Sociology Department Graduate Student Conference. La Jolla, CA.
- 2013 “The little death: Twentieth century biomedicine and the search for oncogenic sex.” Annual Meeting of the UCSD Sociology Department Graduate Student Conference. La Jolla, CA.
- 2010 “On popular audiences for Science Studies.” UCSD Science Studies Program 20th Anniversary Conference. La Jolla, CA.
- 2008 “Victims and vectors: Gendering the human papillomavirus.” Annual Meeting of the Pacific Sociological Association. Portland, OR.

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## TEACHING

- 2016-2018** **Instructor. Sociology Department, Colby College.**
- “Universal Health Care: Could it Work Here?”  
Upper-division undergraduate course drawing substantial enrollments from biology and public health majors.
- “Starting a Business or Nonprofit? Lessons from Sociology”  
Upper-division undergraduate organizational theory course drawing substantial enrollments from economics majors and business minors.
- “The Life Sciences and Society”  
Upper-division undergraduate course cross-listed with the Department of Science, Technology, and Society.

- 2014-2015**     **Instructor. Sociology Department, University of California-San Diego.**  
“Medical Sociology”  
Upper-division undergraduate course drawing substantial enrollments from biology and public health majors.
- Co-Instructor. Academic Connections Program, University of California-San Diego Extension**  
“Social Problems and Civic Action”  
College course for high-achieving high school students, the majority of whom were disadvantaged youth from the local community.
- 2010-2014**     **Teaching Assistant. Sociology Department, University of California-San Diego.**  
“Classical Sociological Theory”; “Sociology of Health Care Issues”;  
“Introduction to Sociology”; “Introduction to Social Research Methods”;  
“Sociology of Scientific Knowledge”

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## DEPARTMENTAL SERVICE

- 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.

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## PROFESSIONAL SERVICE

- Reviewer. *American Sociological Review*.
- Ad hoc reviewer. *American Journal of Sociology*; *Social Science & Medicine*.
- Ad hoc reviewer. Science, Technology & Society (STS) Program, National Science Foundation.

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## PROFESSIONAL MEMBERSHIP

- American Sociological Association (ASA)
- Society for Social Studies of Science (4S)
- Science and Democracy Network (SDN) at Harvard University

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## REFERENCES

Neil Gross  
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