

Natalie B. Aviles

Curriculum Vitae

Department of Sociology
Colby College
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EMPLOYMENT

Colby College

2016-Present Postdoctoral Fellow, Sociology Department

University of California, San Diego

2015 Associate-In Instructor, Sociology Department

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

RESEARCH INTERESTS

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

PEER-REVIEWED PUBLICATIONS

Aviles, Natalie B.* and Isaac Ariail Reed. Forthcoming. "Ratio via machina: Three standards of mechanistic explanation in sociology." *Sociological Methods & Research*. doi:

10.1177/0049124115610350

* First author

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.

MANUSCRIPTS UNDER REVIEW

Peer-Reviewed Article Manuscripts

"Situated practice and the emergence of ethical research: HPV vaccine development and organizational cultures of translation at the National Cancer Institute, 1991-2008." Revise & resubmit at *Science, Technology & Human Values*.

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.

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

With Robin Scheffler. "A paper culture of cancer research: Stabilizing human cancer viruses as administrative objects in the National Cancer Institute Special Virus-Leukemia Program." In preparation for submission to *Social Studies of Science*. Working paper available.

"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.

"Moving targets in the War on Cancer: A pragmatist process theory of organization 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.

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.

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.

INVITED TALKS

- 2017 "Innovation for a Cure: Health Disparities and Social Learning in the National Cancer Institute's Vaccine Programs." University of Chicago Sociology Department. 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.
- 2014 “Critical realism and mechanistic explanation.” Sociology 234: Intellectual Foundation of the Study of Science, Technology, and Medicine. Graduate Seminar, UCSD Science Studies Program. La Jolla, CA.
- 2012 “Illness in the developing nations: Global health implications of HPV vaccination regimes.” Sociology 40: Sociology of Health Care Issues. Undergraduate Course, UCSD Sociology Department. La Jolla, CA

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.

TEACHING

- 2016-2017** **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”

DEPARTMENTAL SERVICE

- 2017 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

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

PROFESSIONAL MEMBERSHIP

- American Sociological Association (ASA)
Society for Social Studies of Science (4S)

REFERENCES

Neil Gross
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Department Chair

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Department of Sociology
University of Virginia
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Dissertation committee chair