DUANA FULLWILEY

CURRICULUM VITAE

Research

Based on multi-sited ethnography, my work queries how global and historical notions of health, disease, race, and power yield biological consequences that bear on present definitions of human difference. My geographical areas of interest include France, Senegal, and the U.S.

Education

Ph.D.	University of California, Berkeley and San Francisco, Medical Anthropology	2002
M.A.	University of California, Berkeley, Anthropology	1997
B.A.	University of California, Berkley, Social Sciences Field Major	1994

Posts

2012- present Associate Professor of Anthropology, Stanford University

2011-2012 Associate Professor of Anthropology, Harvard University

2007-2011 Assistant Professor of Anthropology and African and African-American Studies, Harvard University

2005-2007 Robert Wood Johnson Health and Society Postdoctoral Fellow, Harvard School of Public Health and Department of History of Science

2003-2004/5 National Science Foundation Postdoctoral Research Fellow, New York University, Department of Anthropology

1997, 2000, 2002 Invited Scholar, *Ecole des Mines de Paris, Centre de sociologie de l'innovation* (CSI)

Fellowships and Awards

2009-2012 *National Science Foundation,* Scholars Award (Science & Society Section)
2008-2009 *Africa Initiative Faculty Grant*, Harvard University
2006-2007 *Robert Wood Johnson Foundation,* seed grant
2005-2007 *Robert Wood Johnson Health and Society Scholar*, Harvard University
2004-2005 *The Institute for Advanced Study, Member,* Princeton, New Jersey
2003-2004 *National Science Foundation Minority Postdoctoral Research Fellowship*
2002-2003 UC Irvine *Andrew and Florence White Fellow in Humanities and Medicine*
2001-2002 *Ford Foundation Doctoral Fellow (National Academies of Science)*
2001-2002 UC Berkeley *Townsend Center for the Humanities Dissertation Fellow*
2001-2002 *Ecole Normale Supérieure Research Fellow* (as part of Dr. Paul Rabinow's *Chaire Blaise Pascal*)
2000-2001 *Social Science Research Council IDRF Fellow*
2000-2001 *Wenner-Gren Foundation for Anthropological Research* small grant
1999-2000 USIA *Fulbright Scholar* to Senegal
1999-2000 *National Science Foundation Dissertation Grant (STS)*
1999-2000 UC Berkeley *Rocca Scholar for Advanced African Studies*
1996-1999 *National Science Foundation Graduate Fellow*
1997-1998 UC Berkeley *Bloc Research Grant* for fieldwork in Paris
1996-1997 Selected, *Andrew W. Mellon Fellowship in Humanistic Studies* (declined)
1996-1999 Selected, *Ford Foundation Pre-dissertation Fellowship* (declined)

Honors and Prizes

2013 The Royal Anthropological Institute's *Amaury Talbot Book Prize* for 2011 for ***The Enculturated Gene: Sickle Cell Health Politics and Biological Difference in West Africa***.

1994 UC Berkeley *McNair Scholar*
1994 Graduated *summa cum laude* (BA)
1994 Elected, *Phi Beta Kappa National Honors Society*
1994, 1996-1998 *Louise Patterson Academic Achievement Award*

Publications

Books

2011 ***The Enculturated Gene: Sickle Cell Health Politics and Biological Difference in West Africa.*** Princeton University Press

In preparation ***Tabula Raza: Mapping Race and Human Diversity in American Genome Science***

articles in Peer-Reviewed journals

2010 Fullwiley, Duana. Revaluating Genetic Causation: Biology, Economy, and Kinship in Dakar, Senegal**.** ***American Ethnologist*** 37(4): 638-661.

2008 Fullwiley, Duana. The Biologistical Construction of Race: "Admixture" Technology and the New Genetic Medicine, ***Social Studies of Science*** 38(5): 695-735.

2007 Deborah A. Bolnick, Duana Fullwiley, Troy Duster, Richard S. Cooper, Joan H. Fujimura, Jonathan Kahn, Jay S. Kaufman, Jonathan Marks, Ann Morning, Alondra Nelson, Pilar Ossorio, Jenny Reardon, Susan M. Reverby, Kimberly TallBear. The Science and Business of Ancestry Testing, ***Science*** 318 (5849): 399-400.

2007 Lundy Braun, Duana Fullwiley, Anne Fausto-Sterling, Evelynn M. Hammonds, Alondra Nelson, William Quivers, Susan M. Reverby, Alexandra Shields. Racial categories in medical practice: How useful are they? ***PLOS Medicine*** 4(9): 1423-1428.

2007 Fullwiley, Duana. Race and Genetics: Attempts to Define the Relationship. ***Biosocieties*** 2(2): 221-237.

2007 Fullwiley, Duana. The Molecularization of Race: Institutionalizing Racial Difference in Pharmacogenetics Practice. ***Science as Culture*** 16(1): 1-30.

2006 Fullwiley, Duana. Biosocial Suffering: Order and Illness in Urban West Africa. ***BioSocieties*** 1(4): 421-438.

2004 Fullwiley, Duana. From Discriminate Biopower to Everyday Biopolitics: Views on Sickle cell Testing in Dakar. ***Medical Anthropology*** 23(2):157-194.

1998 Fullwiley, Duana. Race, biologie et maladie: la difficile organisation des patients atteints de drépanocytose aux Etats-Unis. (Race, Biology, and Illness: Barriers to Sickle Cell Patient Group Organization in the United States). ***Sciences Sociales et Santé*** 16(3): 129-157.

Book chapters

2011 Fullwiley, Duana. Can DNA 'Witness' Race ?: Forensic Uses of an Imperfect Ancestry Testing Technology (updated and expanded version of GeneWatch commentary). In ***Race and the Genetic Revolution : Science, Myth and Culture***. Sheldon Krimsky and Kathleen Sloan (eds.) Columbia University Press.

2008 Fullwiley, Duana. The Molecularization of Race and Institutions of Difference: Pharmacy and Public Science after the Genome (edited reprint of Science as Culture article). In ***Revisiting Race in a Genomic Age***. (Studies in Medical Anthropology). Barbara A. Koenig, Sandra Soo-Jin Lee, and Sarah Richardson (eds). Rutgers University Press, pp. 149-171.

2004 Fullwiley, Duana. Contingences de la maladie: les politiques culturelles de la souffrance en regard du trait drépanocytaire AS au Senegal. (Contingencies of illness: the cultural politics of sickle cell trait suffering in Senegal) in Agnès Lainé (ed.) ***La drépanocytose: Regards croisés sur une maladie orpheline*** (Paris: Karthala), pp. 243-277.

Commentaries/reviews

2012 Fullwiley, Duana. (Book Review). Claire Wendland's A Heart for the Work: Journeys Through an African Medical School. ***American Anthropologist*** 14(3): 557-558.

2008 Bolnick, Deborah A., Duana Fullwiley, Jonathan Marks, Susan M. Reverby, Jonathan Kahn, Kimberly Tallbear, Jenny Reardon, Richard S. Cooper, Troy Duster, Joan H. Fujimura, Jay S. Kaufman, Ann Morning, Alondra Nelson, and Pilar Ossorio. The Legitimacy of Genetic Ancestry Tests. ***Science*** 22 February 319: 1039-1040.

2008 Fullwiley, Duana. Out From Under the Skin: Disease Etiology, Biology, and Society: A Commentary on Robert Aronowitz. ***Social Science & Medicine*** 67(1): 14-17.

2008 Fullwiley, Duana. Can DNA 'Witness' Race?: Forensic Uses of an Imperfect Ancestry Testing Technology, ***Genewatch,*** from *The Council on Responsible Genetics* 21(3-4): 12-14.

Invited talks/Lectures

''The Genealogy of Ancestry Genetics: Beyond Surface Readings of Race in the Genome and in History." Research Institute of Comparative Studies in Race and Ethnicity (RICSRE). Stanford University. December 6, 2012.

''Equal Representation Before the Sequencer: How Beliefs in Democratic Equality and Multiculturalism are Powering 21st-century Genetic Concepts of Race." Center for the Study of Law and Society, Boalt School of Law, University of California, Berkley. October 22, 2012.

"Tabula Raza: Terrains of Human Difference in American Genome Science." Department of Geography, University of California, Berkeley. February 15, 2012.

The Cultural Politics of Sickle Cell Trait Suffering: From Africa's Urban Poor to the testing of NCAA Student Athletes." Johns Hopkins Critical Global Health Seminar. May 3, 2011.

"The Political Cartography of Human Health: Risk, Race and Difference in American Genome Science." *Interrogating Diversity Lecture Series*. Department of Anthropology, Washington University. April 19, 2011.

"When State Economy and Population Biology Meet: The Powers of Association and 'Mild' Sickle Cell Anemia in Senegal, West Africa." *The STS Circle*, Program on Science, Technology and Society, Harvard Kennedy School. April 11, 2011.

"Race: The History and Culture of an Idea." Part of the *High School Science Series*, American Anthropological Association exhibit *Race are We So Different?,* Museum of Science, Boston. April 7, 2011.

"Mapping 'Mild' Sickle Cell Disease in Senegal: How Genetic Reductionism gave rise to Genetic Indeterminacy on African Ground." *Walter Rodney African Studies Seminar*, African Studies Center, Boston University. February 7, 2011.

"Between Political Equality and Human Biological Difference: Interpreting African Genetic Diversity in American Genome Science." Paper presented at the Research Institute for Humanities, Kyoto University, International Workshop on the "Interface of Humanities and Genomics." January 22, 2011.

"Cultural Histories of Mild Sickle Cell Anemia in Senegal, West Africa." James B. Herrick Symposium, Sickle Cell Disease Care and Research after 100 Years. The National Heart, Lung, and Blood Institute, The National Institutes of Health, and The National Library of Medicine. November 16-17, 2010.

"Race, Identity, and Medical Genomics in the Obama Age." University of Rhode Island, Honors Program Colloquium and URI Diversity Week Keynote Lecture. October 5, 2010.

"Claims of African Specificity and 'Mild" Sickle Cell Anemia in Postcolonial Genetic Science." Department of Anthropology, lecture for Manduhai Buyandelger and Erica James' course *How Culture Works*. MIT, April 13, 2010.

"Minorities' DNA and the Politics of Race Markers in the Genomic Age." Lecture for Michel DeGraff, Erica James and Elaine Lee's course *Black Matters: Introduction to Black Studies*. MIT. March 4, 2009.

"Economy and Affect: Sickle Cell Trait Suffering in Dakar." African Studies Workshop, University of Chicago. May 15, 2007.

"Kinship, Economy and Genetics: Peopling the Pedigree of the Senegalese Haplotype and Mild Sickle Disease in West Africa." Friday Morning Seminar in Social Medicine and Medical Anthropology, Harvard University. March 9, 2007.

"Better Life:' Senegalese 'Mild' Sickle Cell Disease in Urban Dakar." Brown University Working Group on Anthropology and Population. December 1, 2006.

"Race, Gender, and Science." Brandeis University, Department of Chemistry, NSF Summer Program on Interdisciplinary approaches to Chemistry. August 4, 2006.

"The Biologistical Construction of Race: 'Admixture' Technology and the New Genetic Medicine." Harvard University, Department of Anthropology, Spring Lecture Series. April 17, 2006.

"The Enculturated Gene: Sickle Cell Anemia and Its Bodily Forms in Dakar, Senegal." Cornell University, Department of Science and Technology Studies, Spring Lecture Series. March 27, 2006.

"Making up Populations: Race, Ancestry, and 'Rational' Medicine." Stanford University, Stanford Humanities Center Research Workshops. May 9, 2005.

"The Enculturated Gene: Senegalizing 'Mild' Sickle Cell in West African Circuits of Science." New York University, Department of Anthropology Spring colloquium. March 22, 2005.

"The Bio-logistical Construction of Race: Markering Difference for 'Minority' Disease, Health and Markets." Harvard University, Department of the History of Science, Spring Lecture Series. March 1, 2005.

"Minority DNA: Scientific Activism and the Molecularization of Race." Yale University, Departments of African American Studies and Sociology, Health, Race, and Medicine Seminar Series. December 1, 2004.

"Attitudes, Haplotypes and Other Things 'Senegalese': Circuits of Sickle Difference and Scientific Dissonance in Dakar." McGill University, Department of the Social Studies of Medicine, Fall Seminar Series. October 13, 2004.

"Genetic Modifications and Senegalese Takes on Life." University of Minnesota conference on "Medicine/ Culture/Power: Medical Anthropology for the 21st Century." October 17, 2002.

Select Paper Presentations

"Contemporary Ethnos and Scientific Inclusion: Confronting Modern Forms of Race in Census-Based Genetics." American Anthropological Meetings. November 15, 2012. San Francisco, CA.

"Ethnography of Science meets Critical Race Theory: Biologistical Constructions of Difference." *Critical Race Theory and Empirical Methods* Public Symposium and Third Working Group Meeting, organized by Mario Barnes and Osagie Obasogie. University of California, Irvine School of the Law. April 20 and 21, 2012

"Biological 'Outcomes' and Genetic Orders: Tracing the 'Roots' of Senegalese Sickle Cell Health through Tangled Informal Economies." *Knowledge, Domination and the Public in Africa*, organized by Richard Rottenburg, Max Plank Institute for Social Anthropology, and Sandra Greene, Cornell University, Department of History. The 101st Dahlem Konferenzen, Freie Universität, Berlin. March 21, 2011.

"Biological Futures and the Balance of Health and 'Crisis' for Sickle Cell Disease Politics in Senegal." Paper for an Invited Session (the Society for Cultural Anthropology and the Society for Africanist Anthropology) on "African Futures in Crisis," organized by Charles Piot and Brian Goldstone. American Anthropological Association annual meeting. New Orleans, Louisiana, November 19, 2010.

"The Enculturated Gene: Sickle Cell Health Politics and Biological Difference in West Africa." Medical Anthropology in Global Africa Conference, organized by The Kansas African Studies Center. University of Kansas, September 16-18, 2010.

"The Powers of Genetic Associations and Enculturated Genes." Paper presented at the *Embodiments of Science* conference/workshop. Organizers: Nadia Abu El-Haj, Elizabeth Povinelli and Rebecca Young. Barnard College and Columbia University. November 6-7, 2009.

"Ancestral chromosomes and the New Politics of Proportioning Race and Risk in the U.S. Today." Paper presented for *Les catégories de sexe et de race dans les sciences biomédicales contemporaines* colloquium. UFR de Philosophie, Université Paris 1 Panthéon-Sorbonne. May 29, 2009.

"Ancestral Chromosomes and the New Politics of Proportioning Race and Risk in the U.S. Today." Paper presented for International Symposium on Human Genomic Diversity and Biomedical Practice, BIOS Centre, London School of Economics. March 27, 2009.

"Mild' Sickle Cell Disease in Dakar: Biology, Economy, and Medical Genetics." Paper for an Invited Session, (the Society for Medical Anthropology) on "Bodies and Economies: Ethnographies of Value in Biomedicine and Global Health," organized by João Biehl, Elizabeth F.S. Roberts, and Harris Solomon. American Anthropological Association annual meeting, Washington DC, November 30, 2007.

"Nomenclatures of Nation, Nature, and Disease: African Sickle Cell Haplotype Mapping, 1984-Present." African Studies Association annual meeting. New York, October 19, 2007.

"Environments of Human Practice on the Future of Race Thinking." Paper presented at *Genome Canada*, Quebec City, October 18, 2007

"Associative Networks: Family, Genetics, and Social Support for Sickle Cell Patients in the Southern Hemisphere." Paper presented at the 3rd International Congress of the RFLD (*Réseau Francophone de Lutte contre la Drépanocytose* [Francophone Network for the Fight against Sickle Cell Disease.) Dakar, Senegal, November 2006.

"The Biologistical Construction of Race." Paper for an Invited Session (the Society for Cultural Anthropology) on "The Molecularization of Race and Identity," organized by Duana Fullwiley. American Anthropological Association annual meeting. Washington DC, December 1, 2005.

"Localized Biologies: French Geo-Genetic Typing and the Political Bounds of Disease Nomenclature." Paper presented for a panel organized by Helen Tilley and Nancy Rose Hunt on "Ethnographic Turns and Cognitive Dissonance: Exploring Science, Magic, Healing, and Race," African Studies Association annual meeting. Washington DC, November 2005.

"Capacities and Powers: Concepts of Genetic Screening from Oakland to Dakar (via Paris)." Paper presented at the 2nd International Congress of the RFLD (*Réseau Francophone de Lutte contre la Drépanocytose* [Francophone Network for the Fight against Sickle Cell Disease.) Cotonou, Benin, West Africa. January 21, 2004.

"Rationales of Tailored Medicine: Race and Pharmacy in the Post-Genomic Age." Paper presented for a panel on "Pharmaco-ontologies: Newer Definitions of Human and Drug Specificity," organized by Duana Fullwiley. American Anthropological Association annual meeting. Chicago, IL, November 2003.

"Sickle Cell Science in Dakar: Vitalism via Optimism in the Arboreal (pharmacopoeia)." Paper presented for a panel on "Afro-Empiricities/Afro-theoria," organized by Mariane Ferme and Janet Roitman. African Studies Association annual meeting. Boston, MA, October 2003.

"Reflections on 'Population' as 'Race' in Rational Therapeutics (Pharmacogenomics.)" Paper Presented at the National Academies, Ford Fellows Conference. San Juan, Puerto Rico, October 2003.

Fieldwork Experience

Postdoctoral Research *5/06-present*
Location: Dakar, Senegal. Research: fieldwork exploring the "illness of sickle cell trait" in Senegalese patients. This condition, which is understood as a "benign carrier status" in the American medical literature, is experienced as a less severe form of sickle cell disease in Dakar, Senegal. This fieldwork explores the literal embodiment of genetic knowledge, its symptoms and consequences for local medical practice.

Postdoctoral Research *01/03-present*
Location: United States. Research: fieldwork on scientists developing pharmacogenomics, personalized genomes, and genetic technologies with implications for concepts of race in drug therapy, disease risk, and ancestral identity testing. Principle sites: American academic, basic science research laboratories.

Dissertation Fieldwork *09/99-8/00; 11/00-03/01*
Location: Dakar, Senegal, West Africa. Research: fieldwork on sickle cell anemia science as it is reworked by Senegalese biomedical researchers and their patients. Principle sites: Albert Royer Children's Hospital, the National Blood Transfusion Center, the Fannock Traditional Healing Clinic, the National Archives, and popular market places.

Dissertation Fieldwork 06/97-1/98; 08/00-11/00; 01/02-06/02
Location: Paris, France. Research: fieldwork on sickle cell anemia scientific collaborations between Senegalese and French medical geneticists. Principle sites: Hospitals Tenon and Henri Mondor, URACA African and Arab immigrant community center, SOS Globi and APIPD sickle cell patient advocate organizations.

Research Assistantships

Research Assistant, 10/95-10/96
Dept. of Medical Anthropology, University of California, San Francisco (UCSF)
and Stanford Center for Biomedical Ethics (SCBE), Palo Alto, CA
Job tasks: on Dr. Barbara Koenig's NIH and Open Society funded "Death and Dying in the African-American Community," I conducted fieldwork at San Francisco General and Oakland Highland Hospitals, hospices, and peoples' homes to learn how African-Americans who have terminal disease make end of life choices.

*Junior Research Specialist***,** 09/94-01/96

Institute for the Study of Social Change, Berkeley CA
Job tasks: on Dr. Troy Duster's DOE funded, "Pathways to Genetic Screening" I worked as a principle sickle cell interviewer and fieldworker in Oakland hospitals and neighborhoods to assess how African-Americans viewed, utilized, and engaged with offers for genetic testing.

Courses & teaching interests

Anthropology of Global Health
Anthropology and Race
Anthropology of Science
Anthropology of Nature
Environmental Scarcity and New Racisms
Genetics, Society and Ethics
Health Disparities in the African Diaspora
Medical Anthropology of Africa
Medical Anthropological Theory
Migration as Environmental Displacement
Science and Technology Studies

External Professional Service

Participant, joint workshop held by the National Institutes of Health (NIH), The National Human Genome Research Institute (NHGRI), the National Center for Minority Health and Health Disparities (NCMHD) and the National Cancer Institute (NCI) "Understanding the Role of Genomics in Health Disparities: Toward a New Research Agenda." September 24-26, 2008. University of Maryland, Adelphi.

Participant, workshop held by the National Human Genome Research Institute (NHGRI) to determine the ethical, legal, and social issues (ELSI) raised by research on natural selection in humans, with a focus on the scientific design and responsible interpretation of genomic research in human groups, especially in Africa. October 28, 2008. NIH Conference Center, Rockville, Maryland.

Advisor, Radiolab (WNYC www.radiolab.org). Radiolab is a National Public Radio program focused on the bigger ideas and stories in science. I have served as an advisor as of November 2009. In this capacity, I provide feedback on story ideas for areas of research on race, genetics, human variation and ethics.

Professional Memberships

African Studies Association
American Anthropological Association
American Ethnological Society
4S Society for the Social Studies of Science

Peer Review

External grant reviewer, *National Science Foundation*
Manuscript reviewer, *American Ethnologist*
Manuscript reviewer, *American Sociological Review*
Manuscript reviewer, *Biosocieties*
Manuscript reviewer, *Current Anthropology*
Manuscript reviewer, *Ethnicity and Health*
Manuscript reviewer, *Food and Foodways: Explorations in the History and Culture of Human Nourishment*
Manuscript reviewer, *Journal of Contemporary Ethnography*
Manuscript reviewer, *Journal of Health Care for the Poor and Underserved*
Manuscript reviewer, *Journal of the History of Medicine and Allied Sciences*
Manuscript reviewer, *Medical Anthropology*
Manuscript reviewer, *Medical Anthropology Quarterly*
Manuscript reviewer, *Political and Legal Anthropology Review*
Manuscript reviewer, *Science as Culture*
Manuscript reviewer, *Social Science & Medicine*
Manuscript reviewer, *Science, Technology & Human Values*

Languages

French, fluent
Wolof, near fluent
Italian, reading ability
Spanish, reading ability