Penn Program on Race, Science & Society











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Penn Medicine and the Afterlives of Slavery Project

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A Message from the Founding Director

When the Human Genome Project completed sequencing the entire human genome, the biological concept of race seemed to have finally met its demise. The scientists who led the project, as well as President Bill Clinton, all declared that human genes could not be categorized by race. But predictions about the end of racial science were premature. Instead of hammering the last nail in the coffin of a devastating ideology, the science that emerged from mapping the human genetic code was shaped by an explosion of interest in race-based genetic variation. My dismay at this development led me to write Fatal Invention: How Science, Politics, and Big Business Re-create Race in the Twentyfirst Century, published in 2011, which investigated the emergence of a new biopolitics in the United States that relies on reinventing race in biological terms using giant DNA databases, cuttingedge genomic science, and emerging

biotechnologies. Some scientists were defining race as a biological category written in our genes, while the biotechnology and pharmaceutical industries converted the new racial science into race-based products, such as race-specific medicines and genetic ancestry tests, that incorporate false assumptions of innate racial distinctions. As has long been the function of race, this scientific reinvention of race attributed health, education, income, and other disparities between racialized groups to differences in nature rather than power. The new racial biopolitics calls for technological responses to racial inequities while masking the continuing impact of structural racism. Scientists' use of race has tremendous potential to affect the direction of state efforts to address health inequities, and racial inequality more broadly, by directing attention toward or away from structural causes.

One of my main objectives when I moved from Northwestern University to University of Pennsylvania in 2012 was to launch an initiative that addressed the resilient science of racial difference and its harmful consequences for society. With generous support from Penn's President and Provost, I founded the Penn Program on Race, Science & Society (PRSS) in fall 2013, housed at the Center for Africana Studies. PRSS brings together faculty, fellows, students, and visitors across campus to share ideas for transformative and interdisciplinary approaches to the role of race in scientific research and biotechnological innovations, aiming

"I am proud to celebrate in this Decennial Anniversary Report what PRSS has accomplished and grateful for the support and engagement of all those in the Penn community who made this initiative possible."

both to promote social justice and to dispel the myth that race is a natural division of human beings. PRSS held its inaugural symposium, "The Future of Race and Science: Regression or Revolution?," at Penn on April 11, 2014. The event convened eight prominent visionary scholars from a wide range of disciplines in the United States to discuss their ideas about future approaches to race and science. Over the ensuing decade, PRSS organized three additional major symposia, creating a venue for engagement by scholars of race, racism, and science from around the nation and the globe. Throughout this period, PRSS offered a space for Penn community members to share updates on their related projects at our regular working group meetings and to hear from experts from diverse backgrounds in our lecture and colloquium series. One of PRSS's most significant undertakings was to collaborate with the Penn and Slavery Project and the Perelman School of Medicine to launch the Penn Medicine and the Afterlives of Slavery Project in 2019. I am proud to celebrate in this Decennial Anniversary Report what PRSS has accomplished and grateful for the support and engagement of all those in the Penn community who made this initiative possible. Special thanks to PRSS Postdoctoral Fellow Hafeeza Anchrum for her work on drafting this report and to Morgan Cichewicz for her work on its design.

Dorothy Roberts is the 14th Penn Integrates Knowledge Professor and George A. Weiss **University Professor at University** of Pennsylvania, with joint appointments in the Departments of Africana Studies and Sociology and the Law School, where she is the inaugural Raymond Pace and Sadie **Tanner Mossell Alexander Professor** of Civil Rights. Her award-winning books include Killing the Black Body: Race, Reproduction, and the Meaning of Liberty (Pantheon 1997), Shattered Bonds: The Color of Child Welfare (Basic Books 2002), Fatal Invention: How Science, Politics, and Big Business Re-create Race in the Twenty-first Century (New Press 2011), and Torn Apart: How the Child Welfare System Destroys Black Families—and How Abolition Can Build a Safer World (Basic Books 2022). She is an elected member of the American Philosophical Society, the American Academy of Arts & Sciences, and the National Academy of Medicine.



Dorothy Roberts, Founding Director

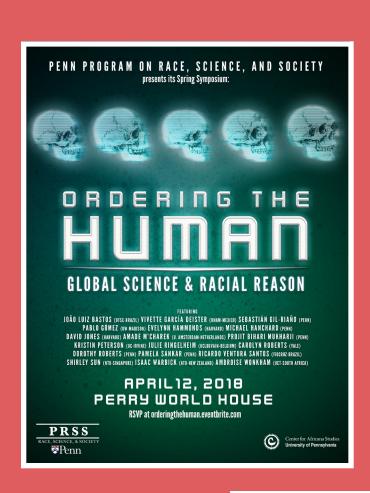
Penn Program on Race, Science & Society

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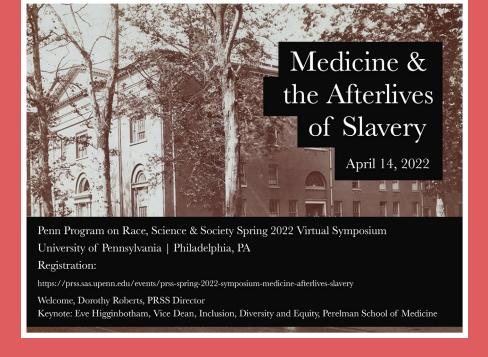
Scientific investigations of race and racism have long influenced the way we think about human bodies, diversity, and commonality, with profound consequences for society. The use of race in scientific and medical research has been notoriously prone to error and injustice. From 18th century typologies to 20th century eugenics, science has played a crucial role in inventing and justifying the idea of biological races and has helped to maintain -and contest-racial inequities. Harms persist when race is used as an invalid proxy for human genetic variation, treated as a cause of social inequities, or otherwise carelessly inserted as a research variable without adequate definition or scientific rationale. These scientific studies, and the products they generate, transfer new knowledge about human biology, unity, and difference from the laboratory to the marketplace for public consumption. Race-based research and biotechnologies, and the discourses interpreting them, translate scientific authority and significance into popular conceptions of race, and help to reconstitute and extend the destructive role of race in society.

Despite the dominant role race has played in Western science, there is a great deal of uncertainty and variability within the scientific community, policy makers, and the broader public about the relationship between race, biology, and society. Genomic scientists, biomedical researchers, and social scientists continue to grapple with the challenging task of assigning the appropriate significance to race, if any, as a variable in research using novel technoscientific tools for studying populations, behaviors, and health inequities. These interpretations of the interactions among identity, environment, and biology profoundly influence understandings of human difference and have the potential both to maintain and challenge racial inequities. Thus, illuminating and investigating the social implications of the ways race is used in scientific inquiry and biotechnological innovation are especially urgent today. PRSS aims to catalyze and facilitate this vital conversation at Penn.

Program Mission: "The Program on Race, Science & Society (PRSS) is an initiative at the University of Pennsylvania devoted to transformative and interdisciplinary approaches to the role of race in scientific research and biotechnological innovations, aiming both to promote social justice and to dispel the myth that race is a natural division of human beings."









Penn Program on Race, Science & Society











The Future of Race and Science: Regression or **Revolution? Symposium** 2014

PRSS marked its inauguration with a national symposium, "The Future of Race and Science: Regression or Revolution?," held at the University of Pennsylvania on April 11, 2014. The event underscored the urgent need for a new initiative that explores the connections between race, science, and society, one that confronts the emergence of a new racial science that claims to identify races with more accurate precision and without the taint of racism.

In light of our conviction that interdisciplinary approaches are necessary for this task, the inaugural symposium brought together eight leading, visionary scholars from a wide range of disciplines to discuss their ideas about future approaches to race, racism, and science. The event entailed three conversations among the invited speakers on the current controversies in race and science, transforming education on race and science, and transdisciplinary approaches to using race and investigating racism in research and biotechnologies. It concluded with a plenary session with all the invited speakers.



Symposium Flyer

Introduction



Barbara Savage Director (2014), Center for Africana Studies, University of Pennsylvania

Barbara Savage is an historian and the Geraldine R. Segal Professor Emerita of American Social Thought and Professor Emerita of Africana Studies at the University of Pennsylvania. At Penn, among other commitments, she served as the chair of the Department of Africana Studies, Interim Director and Faculty Associate Director of the Center for Africana Studies, and Graduate and Undergraduate Chair. She was also a member of the University's History Department from 1995–2013. Her award-winning books include: Your Spirits Walk Beside Us: The Politics of Black Religion (Harvard University Press 2008), and Broadcasting Freedom: Radio, War, and the Politics of Race, 1938-1948 (University of North Carolina Press 1999). In addition, she is co-editor of Women and Religion in the African Diaspora (Johns Hopkins University Press 2006) with R. Marie Griffith.



Dorothy Roberts Director, Penn PRSS

Panel 1: The Crisis of Race in Science, Past and Present



The Future of Race and Science: Regression or

Revolution? Symposium 2014

Moderator: Tukufu Zuberi University of Pennsylvania

Tukufu Zuberi is the Lasry Family Professor of Race Relations and Professor of Sociology and Africana Studies at the University of Pennsylvania. He is the author of Swing Low, Sweet Chariot: The Mortality Cost of Colonizing Liberia in the Nineteenth-Century (University of Chicago Press 1995), Thicker than Blood: How Racial Statistics Lie (University of Minnesota Press 2001) and African Independence: How Africa Shapes the World (Rowman & Littlefield 2015) and co-editor with Eduardo Bonilla-Silva of White Logic, White Methods (Rowman & Littlefield 2008). In 2014, he was the Chair of the Department of Sociology at the University of Pennsylvania. In 2002, he became the founding Director of the Center for Africana Studies, and he has also served as the Faculty Associate Director of the Center for Africana Studies.



Kim TallBear University of Texas at Austin (2014)

Kimberly TallBear is Professor in the Faculty of Native Studies at the University of Alberta in Canada. In 2014, she was Associate Professor of Anthropology at the University of Texas at Austin. She studies how genomics is co-constituted with ideas of race and indigeneity, the topic of her 2013 monograph, Native American DNA: Tribal Belonging and the False Promise of Genetic Science (University of Minnesota Press 2013). Professor TallBear is also interested in the role of Native American and other indigenous scientists in the democratization of the biological sciences. She has advised tribal and other indigenous governmental organizations, federal agencies, science museums, and genome researchers and policymakers on issues related to indigenous peoples, science, and technology. She is enrolled in the Sisseton-Wahpeton Oyate and is also descended from the Cheyenne & Arapaho Tribes of Oklahoma.



Harriet Washington Independent Scholar

Harriet A. Washington is an awardwinning medical writer and editor, and the author of the best-selling book, Medical Apartheid: The Dark History of Medical Experimentation on Black Americans from Colonial Times to the Present (Doubleday 2007); as well as Deadly Monopolies: The Shocking Corporate Takeover of Life Itself—And the Consequences for Our Health and Our Medical Future (Doubleday 2011); Infectious Madness: The Surprising Science of How We "Catch" Mental *Illness* (Little Brown and Company 2015); A Terrible Thing to Waste: Environmental Racism and Its Assault in the American Mind (Little Brown Spark 2019). She is the founding Editor of The Harvard Journal of Minority Public Health and has presented her work at universities in the U.S. and abroad. Ms. Washington has taught at The New School, SUNY, Rochester Institute of Technology, University of Rochester, Harvard School of Public Health, and Tuskegee University.

The Future of Race and Science: Regression or Revolution? Symposium 2014

Panel 2: Teaching About Race in Science and Medicine



Moderator:
Ann Morning
New York University

Ann Morning is a Professor of Sociology at New York University and a faculty affiliate of NYU Abu Dhabi. Her research interests include race, demography, and the sociology of science, especially as they pertain to census classification worldwide and to individuals' concepts of racial difference. She is author of The Nature of Race: How Scientists Think and Teach about Human Difference (University of California Press 2011) and, with Marcello Maneri, An Ugly Word: Rethinking Race in Italy and the United States (Russell Sage 2022). In 2008-09, Professor Morning was a Fulbright Scholar at the University of Milan, and was a Russell Sage Visiting Scholar in 2014-15. From 2013 to 2019, she served on the U.S. Census Bureau's National Advisory Committee on Racial, Ethnic and Other Populations.



Evelynn Hammonds
Harvard University

Evelynn Hammonds is the Barbara Gutmann Rosenkrantz Professor of the History of Science, Professor of African and African American Studies, and director of the Program for the Study of Race & Gender in Science & Medicine at the Hutchins Center for African and African American Research at Harvard University. Professor Hammonds' areas of research include the histories of science, medicine and public health in the United States and race and gender in science studies. She is the author of Childhood's Deadly Scourge: The Campaign to Control Diphtheria in New York City, 1880-1930 (1999) and co-editor with Jennifer M. Shephard and Stephen M. Kosslyn of *The* Harvard Sampler: Liberal Education for the Twenty-First Century (2011) and with Rebecca Herzig of *The* Nature Q/Difference: Sciences Q/Race in the United States from Jefferson to Genomics (2008.) Professor Hammonds' current work focuses on the intersection of scientific, medical and socio-political concepts of race in the United States.



Jonathan Metzl
Vanderbilt University

Jonathan Metzl is the Frederick B. Rentschler II Professor of Sociology and Psychiatry, and the Director of the Center for Medicine, Health, and Society at Vanderbilt University in Nashville, Tennessee. A 2008 Guggenheim fellow, Professor Metzl has written extensively for medical, psychiatric, and popular publications. His books include *Prozac on the* Couch: Prescribing Gender in the Era of Wonder Drugs (Duke University Press 2003), The Protest Psychosis: How Schizophrenia Became a Black Disease (Beacon Press 2010), Against Health: How Health Became the New Morality (NYU Press 2010)(edited with Anna Kirkland), and Dying of Whiteness: How the Politics of Racial Resentment Is Killing America's Heartland (Basic Books 2020).

The Future of Race and Science: Regression or Revolution? Symposium 2014

Panel 3: Using Race in Research and Biotechnologies



Moderator:
Alondra Nelson
Columbia University (2014)

Alondra Nelson is the Harold F. Linder Professor at the Institute for Advanced Study. She was formerly Professor of Sociology and Director of the Institute for Research on Women, Gender, and Sexuality at Columbia University. She also served as deputy assistant to President Joe Biden and acting director at the White House Office of Science and Technology Policy. A scholar of science, technology, medicine, and inequality, Professor Nelson is author of the awardwinning The Social Life of DNA: Race, Reparations, and Reconciliation After the Genome (Beacon Press 2016) and Body and Soul: The Black Panther Party and the Fight against Medical Discrimination (University of Minnesota Press 2013) and co-editor with Catherine Lee and Keith Wailoo of Genetics and the Unsettled Past: The Collision Of DNA, Race, and History (Rutgers University Press 2012) and with Thuy Linh N. Tu of Technicolor: Race, Technology, and Everyday Life (NYU Press 2001).



Jonathan Marks
University of North Carolina
at Charlotte

Jonathan Marks is Professor of Biological Anthropology at the University of North Carolina at Charlotte and specializes in the study of human evolution and human diversity at the intersection of anthropology, evolution, and genetics. He is the author of several books, including Human Biodiversity (Routledge 1995), What It Means to be 98% Chimpanzee (University of California Press 2002), and Why I am Not a Scientist (University of California Press 2009). He has served on the editorial boards of The Journal of Human Evolution, International Journal of Primatology, Yearbook of Physical Anthropology, and Journal of the Royal Anthropological Institute. Professor Marks served as President of the American Anthropological Association General Anthropology Division from 2000-2002. In 2006 he was elected a Fellow of the American Association for the Advancement of Science.



<u>Charles Rotimi</u> National Institutes of Health

Charles Rotimi is the Scientific Director of the National Human Genome Research Institute. In 2014, he was the Director of the Center for Research on Genomics and Global Health of the National Institutes of Health. Dr. Rotimi develops genetic epidemiology models and conducts population genetics research that explores the patterns and determinants of common complex diseases in the African diaspora and other human populations. He serves on the **Executive and Scientific Committee for** the International Federation of Human Genetics Societies, the editorial board of Public Health Genomics, Genome Medicine, Clinical Genetics and Journal of Applied and Translational Genomics, and the Human Genome Organization Council. He is also the founding and past president of the African Society of Human Genetics and led the establishment of the Human Heredity and Health in Africa (H3Africa)

The Future of Race and Science: Regression or Revolution? Symposium 2014



Amy Gutmann, President of the University of Pennsylvania, 2004–2022

Penn President Amy Gutmann delivered remarks at the inaugural symposium. She emphasized that although values like respect, informed consent, beneficence, and justice may seem apparent and logical to many academics, they are still not widely understood to be fundamental to our society's practice and philosophy.

"Universities like ours have a lot of work to do. We have a lot of work to do in the research and the teaching. And I think this symposium is a great start in this area. It's absolutely necessary for experts in the humanities, social sciences, and sciences to talk with one another. And then be able to translate what they do into speaking to the educated public. And that's one of the things that I love about this conference... I am proud that this symposium on the future of race, science and society is taking place at Penn."





Speakers (L to R): Alondra Nelson, Jonathan Marks, Jonathan Metzl, Harriet Washington, Tukufu Zuberi, Kim TallBear, Charles Rotimi, Evelynn Hammonds, Dorothy Roberts

Co-sponsors:

Center for Africana Studies

Penn Museum of Archaeology and Anthropology

Penn Law School

Penn Center for the Integration of Genetic Healthcare Technologies

Quantifying Race: How Politics, Economics and Medical Myopia Drive Color-Coded Data Symposium at Brocher Foundation Hermance, Switzerland, 2015

Penn Program on Race, Science & Society

PRSS Director Dorothy Roberts joined with independent researcher Harriet Washington, who participated in the 2014 PRSS symposium, to apply for funding by the esteemed Brocher Foundation to lead an international workshop titled "Quantifying Race: How Politics, Economics, and Medical Myopia Drive Color-Coded Data." They received the award, and the symposium took place on June 15 and 16, 2015, at the Brocher Foundation in Hermance, Switzerland. The objective of the workshop was to examine how U.S. and European experts in the fields of law, social science, medicine, and genomics approach the use of race in genetics-driven technological innovation. Given the contemporary genomic era, in which race is increasingly employed to analyze DNA and other scientific data, and in which people of color continue to be disproportionately affected by health inequities worldwide, it was an urgent topic that fit well within PRSS's mission.

The workshop was organized around four main themes: 1) the power and weaknesses of specific important examples of medical, genomic, and biotechnology studies, particularly those utilizing the collection and/ or analysis of big data; 2) economic incentives for racespecific products; 3) the paradoxes of inclusion and difference, including how scientists may address racial inequities in research and health without validating specious biological categories; and 4) how these issues may lessen or intensify racial inequity in healthcare, including medical research. Participants also explored future directions for medical research in this field as well as the grave political implications of the increasing use of race in genomic research and technologies.

Organizers/Moderators



Dorothy Roberts Director, Penn PRSS



Independent Scholar

Speakers



Sonia Desmoulin-Canselier

Professor at French National Center for Scientific Research, "Scientific Approximation and Ethno-racial Categories in French Jurisprudence: An Ambivalent Situation"

Quantifying Race: How Politics, Economics and Medical Myopia Drive Color-Coded Data

Symposium at Brocher Foundation

Hermance, Switzerland, 2015



Claude-Olivier Doron

Professor at Universite Paris Diderot, "Racism 2.0: How Genomic Informations are Used and Politically Interpreted on the Internet"



Jonathan Marks

Professor at University of North Carolina at Charlotte, "The Ontology of Race: If it "doesn't Exist" and "Isn't Real," Then Why are We Talking about It?"



Alondra Nelson

Professor at Columbia University, "The Social Life of DNA in the Era of Big Data"



Lundy Braun

Professor at Brown University, "Ordering Variability: Race, Data and Precision Instruments"



Barbara Prainsack

Professor at University of Vienna, "Is Personalised Medicine Different? "Race" in Data-Rich Medicine"



Professor at Tilburg University, "Use of Clinical Data in Clinical Research: Amplification of the Flawed Concept"



Professor at Harvard University, "Race, Health and Genetics: Limits and Opportunities of Genomics Research'

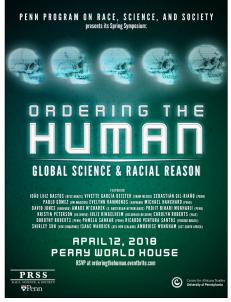
Ordering the Human: Global Science & Racial Reason Symposium 2018

Race and science have been intimately connected at the global level from the very inception of the European Enlightenment. Western scientists invented the idea that all human beings around the world are universally divided into a handful of biologically discrete races. They fit these human classifications into the typologies they were creating for all of nature, including plants and animals. Of course, they put themselves, Europeans, at the top of this hierarchy and the Africans that they wanted to enslave at the bottom. Enlightenment thinkers imported into their scientific revolution the mythical notion that a natural power created this unequal human order. Historically, this way of ordering human beings has been the foundational logic upon which both state and private violence and social inequality are justified and perpetrated and has profound implications for individuals' life chances across the globe. Purportedly "universal," "stable" and "natural" racial categories continue to affect health outcomes, resource allocation, and social policies globally as they are incorporated and reinscribed in scientific and biomedical research.

PRSS brought together an international group of biological and social scientists, legal scholars, and historians to uncover how race as a unit of analysis is defined, operationalized, and reconstituted through scientific and biomedical practices. As the legacies of racial classifications continue to influence and circumscribe lives, this symposium provided a vital starting point to systematically and synthetically analyze the global role of racial science and to strategize possible ways out of the naturalization of race.

The "Ordering the Human: Global Science & Racial Reason" symposium was held on April 12, 2018, at Perry World House at the University of Pennsylvania. It convened seventeen scholars from Belgium, Brazil, Mexico, the Netherlands, Singapore, South Africa, and New Zealand, as well as the United States, who presented on four themes: Individuals and Composites; Purity and Mixture; Stability and Circulation; and Past and Promise. PRSS was awarded a Fels Policy Research Initiative Grant and an inaugural Dean's Integrative Global Inquiries Fund Award from the School of Arts and Sciences to support the symposium.







Program Flyer





From top to bottom:

Panel 1 (L to R): Amade M'Charek, Shirley Sun, and Pamela Sankar

Panel 2 (L to R): Ricardo Ventura Santos, Sebastián Gil-Riaño, Projit Bihari Mukharji, João Luis Dornelles Bastos, and Vivette García-Deister

Panel 3 (L to R): Julie Ringelheim, Michael Hanchard, Pablo F. Gómez, and Ambroise Wonkam

Panel 4 (L to R): Evelynn Hammonds, Isaac Warbrick, David Jones, and Kristin Peterson

Ordering the Human: Global Science & Racial Reason Symposium, 2018

Welcome and **Opening Remarks**



Wendell Pritchett Provost 2017-2021, University of Pennsylvania

Wendell Pritchett is the James S. Riepe Presidential Professor of Law and Education at the University of Pennsylvania. He served as the University Provost from 2017-2021 and the Interim University President from February 2022 — June 2022.



Dorothy Roberts Director, Penn PRSS

Panel 1: Individuals and Composites



Amade M'Charek University of Amsterdam

Amade M'Charek is a Professor of Anthropology of Science at the Department of Anthropology, University of Amsterdam. She is the PI of the RaceFaceID project a project on forensic identification and the making of face and race. Her focus is on genetic diversity, population genetics and forensic DNA practices, with an interest in the ir/ relevance of race in such practices and the ways in which race is done in them, and in the relation between the individual and the collective. Some representative publications include The Human Genome Diversity Project: An Ethnography of Scientific Practice (Cambridge University Press 2005), "Silent Witness, Articulate Collective: DNA Evidence and the Inference of Visible Traits" (Bioethics 2008) and "Beyond Fact or Fiction: On the Materiality of Race in Practice" (Cultural Anthropology 2013).



Carolyn Roberts Yale University

Carolyn Roberts is an Assistant Professor at Yale University with joint appointment in the departments of History/History of Science and Medicine, and African American Studies (postdoctoral associate at Yale University in 2018). She also holds a secondary appointment at Yale School of Medicine in the Program in the History of Medicine. Her research interests concern the history of race, science, and medicine in the context of slavery and the Atlantic slave trade. She is currently working on several book manuscripts, including *To Heal* and To Harm: Medicine, Knowledge, and Power in the British Slave Trade, which is under contract with Harvard University Press.

Ordering the Human: Global Science & Racial Reason Symposium, 2018

Panel 1 (continued)



Shirley Sun Nanyang Technological University

Shirley Sun is an Associate Professor of Sociology with joint courtesy appointments at Lee Kong Chian School of Medicine and the School of Biological Sciences at Nanyang Technological University (NTU) in Singapore. She studies genomic science, precision medicine, population and reproduction in global contexts through the concepts of citizenship and "othering." She is the author of Socio-economics of Personalized Medicine in Asia (Routledge 2017) and Population Policy and Reproduction in Singapore: Making Future Citizens (Routledge 2012).



Pamela Sankar (moderator) University of Pennsylvania

Pamela Sankar is an Associate Professor in the Department of Medical Ethics & Health Policy at the University of Pennsylvania and a Senior Fellow at the Leonard Davis Institute of Health Economics. Her research interests have included medical privacy and confidentiality, ethical and cultural implications of genetic research, research ethics, and genetics and race. Her publications include "Being Specific about Racespecific Medicine" (with Jonathan Khan) (Health Affairs 2006) and "The Precision Medicine Initiative's All of Us Research Program: An Agenda for Research on its Ethical, Legal, and Social Issues" (with Lisa Parker) (Genetics in Medicine 2017).

Panel 2: Purity and Mixture



Projit Bihari Mukharji University of Pennsylvania

Projit Bihari Mukharji is an Associate Professor in the Department of History and Sociology of Science at the University of Pennsylvania. Educated in India and Britain, Mukharji is the author of two monographs: Nationalizing the Body (London 2009) and Doctoring Traditions (Chicago 2016). His work focuses upon the histories of medicine and science in modern South Asia. He is particularly interested in how different knowledge traditions interact. He is currently working on a history of human difference and race in 20th century South Asia. This touches on the histories of physical anthropology, evolutionary biology, human genetics and archeogenetics.

Ordering the Human: Global Science & Racial Reason Symposium, 2018

Panel 2 (continued)



João Luis Dornelles Bastos University of Santa Catarina, Brazil

João Luis Dornelles Bastos is an Associate Professor at the Department of Public Health, Federal University of Santa Catarina, Brazil. He conducts research on racial inequalities in health, as well as on measuring selfreported discrimination in Brazilian adults. Dr. Bastos has published more than 90 peer-reviewed journal articles and five book chapters.



Ricardo Ventura Santos National Museum, Rio de Janeiro, Brazil

Ricardo Ventura Santos is a Senior Researcher at Fundação Oswaldo Cruz and Professor at the Department of Anthropology of the National Museum, in Rio de Janeiro, Brazil. He has been a visiting scholar at the MIT/ STS Program (1998-1999) and at the Max Planck Institute for the History of Science, Berlin (2012 and 2013). He is the author of *The Xavante* in Transition (University of Michigan Press 2002) and co-editor of Racial Identities, Genetic Ancestry, and Health in South America (Palgrave MacMillan 2011) and Mestizo Genomics (Duke University Press 2014).



Vivette García-Deister **National Autonomous** University of Mexico

Vivette García-Deister is an Associate Professor in Science and Technology Studies at the School of Sciences of the National Autonomous University of Mexico (UNAM). Her research focuses on the history of race science, the epistemologies of biomedical and forensic genetics, and the philosophy of science in practice. She has contributed to the books Mestizo Genomics (Duke University Press 2014) and Beyond Alterity (University of Arizona Press 2018) by critically analyzing mestizo and indigenous bodies as objects of investigation in contemporary genomics, and the impact of these investigations on notions of identity and nation in Mexico. She currently leads two research projects: Populations of Cognition: Interconnected Histories of Science in Latin America, and together with Lindsay Smith (University of New Mexico), Migrant DNA: The Science of Disappearance and Death Across the

Mexican Borderlands

Ordering the Human: Global Science & Racial Reason Symposium, 2018

Panel 2 (continued)



Sebastián Gil-Riaño (moderator) University of Pennsylvania

Sebastián Gil-Riaño is an Assistant Professor in the History and Sociology of Science Department at the University of Pennsylvania. His research and teaching interests include the history of science and medicine, the history of race science, the history of the human sciences, Latin American history, and postcolonial science studies. He is currently working on a book titled Redemptive Journeys: Anti-Racism in Science during the Global 20th Century, which examines how scientists from Latin America, Oceania, North America, and Europe crafted anti-racist conceptions of 'race' emphasizing human plasticity and cultural adaptability.

Panel 3: Stability and Circulation



Julie Ringelheim Belgian Fund for Scientific Research / The Centre for Philosophy of Law of Louvain University, Belgium

Julie Ringelheim is Senior Researcher with the Belgian Fund for Scientific Research (FRS-FNRS) and with the Centre for Philosophy of Law of Louvain University (UCL) (Belgium), where she also teaches Human Rights Law and Sociology of Law. Her areas of research include international and European antidiscrimination law, international minority rights, personal data protection, and equality theories. Her publications include *Politiques* Antidiscriminatoires (with G. Herman and A. Rea, De Boeck 2015) and Ethnic Monitoring: The Processing of Racial and Ethnic Data in Anti-Discrimination Policies (with O. De Schutter, Bruylant 2010).



Ambroise Wonkam John Hopkins Medicine / University of Cape Town

Ambroise Wonkam is a Professor of Genetic Medicine and Director of the McKusick-Nathans Institute and Department of Genetic Medicine at John Hopkins Medicine. In 2018, he was a professor in the Division of Human Genetics, Faculty of Health Sciences, University of Cape Town, South Africa. His research interests are reflected in more than 100 peer-reviewed publications on: 1) Psychosocial Burden and Genomics modifiers of Sickle Cell Disease (SCD); 2) Genetics of hearing loss, and 3) Ethical and educational Issues in human genetics in Africa. He is also a member of the steering committee of H3Africa consortium, secretary of the African Society of Human Genetics, Board member of the International Federation of Human Genetics Societies, council member of Human Genome Organization, and a steering committee member of the Global Genetic Medicine Collaborative (G2MC).

Panel 3 (continued)



Pablo F. Gómez University of Wisconsin, Madison

Pablo F. Gómez is an Associate Professor of History and the History of Medicine at the University of Wisconsin, Madison. Dr. Gómez's first book, The Experiential Caribbean: Creating Knowledge and Healing in the Early Modern Atlantic (Chapel Hill: University of North Carolina Press 2017), explores belief making and the creation of evidence around the human body and the natural world in the early modern black Caribbean. He is currently working on a history of the quantifiable/fungible body emerging in sixteenth and seventeenth century Atlantic slave trading communities. He is also actively involved in an ongoing project on the Plantationocene, and in projects of digital archival preservation related to the African diaspora in Colombia, Cuba and Brazil.



Michael Hanchard (moderator) University of Pennsylvania

Michael Hanchard is the Gustave C. Kuemmerle Professor in the Department of Africana Studies at the University of Pennsylvania, where he directs the Marginalized Populations Project. His research and teaching interests combine a specialization in comparative politics with an interest in contemporary political theory, encompassing themes of nationalism, racism, xenophobia and citizenship. His publications include Orpheus and Power: The Movimento Negro of Rio de Janeiro and Sao Paulo, Brazil, 1945-1988 (Princeton 1994), Racial Politics in Contemporary Brazil, editor, (Duke 1999), Party/Politics: Horizons in Black Political Thought (Oxford 2006) and most recently *The Spectre of Race:* How Discrimination Haunts Western Democracy (Princeton 2018).

Panel 4: Past and Promise



Kristin Peterson University of California, Irvine

Kristin Peterson is an Associate Professor at UC Irvine interested in African studies, science and technology, and postcolonial critiques of political economy. Her book, Speculative Markets: Drug Circuits and Derivative Life in Nigeria (Duke University Press 2014) examines the pharmaceutical market in Lagos, Nigeria as it is linked to the global circulation of pharmaceuticals and financial capital. She is currently working on several projects that study failed HIV related clinical trials in several African countries (conducted jointly with Professor Morenike Folayan at Obafemi Awolowo University), bring together histories of liberation, Black political thought, Afro-futures & cities, and Nigerian photography, and guery the racial logics of geopolitics through the lens of infectious disease in West Africa.

Panel 4 (continued)

Ordering the Human:

Global Science & Racial

Reason Symposium, 2018



David Jones Harvard University

David Jones is the A. Bernard Ackerman Professor of the Culture of Medicine at Harvard University. Trained in psychiatry and history of science, his research has focused on the causes and meanings of health inequalities, resulting in a book, Rationalizing Epidemics: Meanings and Uses of American Indian Mortality since 1600 (Harvard University Press 2016). His next project, Broken Hearts: The Tangled History of Cardiac Care (John Hopkins University Press 2013), focused on the history of decision making in cardiac therapeutics. He is currently at work on four other book projects, including histories of the evolution of coronary artery surgery, of heart disease and cardiac therapeutics in India, and of the threat of air pollution to health in both India and the United States.



Isaac Warbrick Auckland University of Technology, New Zealand

Isaac Warbrick is the Director of Taupua Waiora Centre for Māori Health Research at Auckland University of Technology in New Zealand. As an exercise physiologist and Māori (Indigenous) health researcher, his research is conducted at the interface between Western and Indigenous research approaches and is focused on applications of traditional Māori knowledge, values, and practices in contemporary health spaces. He is particularly interested in physical activity as an outcome of cultural reconnection, decolonising weightfocused approaches to health, and the development of culturally-relevant outcome measures.



Evelynn M. Hammonds (moderator) Harvard University

Evelynn Hammonds is the Barbara Gutmann Rosenkrantz Professor of the History of Science, Professor of African and African American Studies, and director of the Program for the Study of Race & Gender in Science & Medicine at the Hutchins Center for African and African American Research at Harvard University. Professor Hammonds' areas of research include the histories of science, medicine and public health in the United States and race and gender in science studies. She is the author of Childhood's Deadly Scourge: The Campaign to Control Diphtheria in New York City, 1880-1930 (1999) and co-editor with Jennifer M. Shephard and Stephen M. Kosslyn of *The* Harvard Sampler: Liberal Education for the Twenty-First Century (2011) and with Rebecca Herzig of The Nature Q/Difference: Sciences Q/Race in the United States from Jefferson to Genomics (2008). Professor Hammonds' current work focuses on the intersection of scientific, medical and socio-political concepts of race in the United States.

Ordering the Human: Global Science & Racial Reason Symposium, 2018

Co-sponsors:

The Center for Africana Studies Department of Anthropology Department of English **FELS Policy Institute** Department of History Department of History and Sociology of Science Penn Medicine's Office of Inclusion and Diversity Perry World House Department of Philosophy Department of Sociology South Asia Studies Bona Yoo

Ordering the Human: The Global Spread of Racial Science

The day following the symposium was devoted to a workshop attended exclusively by the participants to delve more deeply into the symposium's themes. We also brainstormed how to construct an anthology from the papers presented at the symposium to be co-edited by PRSS Director Dorothy Roberts, PRSS postdoctoral fellow for 2016-2018, Eram Alam (now an Assistant Professor at Harvard's Department of History of Science), and the incoming PRSS postdoctoral fellow, Natalie Shibley (now a visiting Assistant Professor at Northeastern University College of Social Sciences and Humanities). Most of the original participants remained on the book project. Regrettably, several of the non-US scholars, from Belgium, Mexico, Singapore, and South Africa, were unable to contribute chapters. Fortunately, we were successful in our efforts to recruit additional papers from scholars writing from a range of disciplinary and global approaches.

Ordering the Human: The Global Spread of Racial Science is under contract with Columbia University Press and expected to be published in May 2024.

The following authors contributed chapters to the book:

Bastos, João Luiz (Simon Fraser University) and Santos, Ricardo Ventura (Oswaldo Cruz Foundation; Federal University of Rio de Janeiro), "The Dilemmas of Racial Classification in Brazil: Reflections on Two Contemporary Case Studies"

Botelho, Alyssa (University of Washington-Seattle) and Jones, David (Harvard University), "The South Asian Heart Disease Paradox: History, Epidemiology, and Contested Narratives of Susceptibility"

Burton, Elise (University of Toronto), "Facing the Past: Human Skulls, Facial Reconstruction, and National Identity in the Middle East"

Ferreira da Silva, Denise (New York University; Monash University's Architecture, Design, and Art; European Graduate School), "The Racial Calculus: Security and Policy During the COVID-19 Global

Gil-Riaño, Sebastián (University of Pennsylvania) and Rodriguez, Julia (University of New Hampshire), "Locating the Child in Racial Science: Scenes from Latin America"

Hyun, Jaehwan (Pusan National University), ""Multicultural Genes in Our Blood"? Genetic Governance and Biocultural Purity in South Korea"

M'Charek, Amade (University of Amsterdam), "Race and Sameness: On the Limits of "beyond race" and the Art of Staying with the Trouble"

Mitchell, Paul Wolff (University of Amsterdam), "How Skulls Came to Matter in Racial Science: The Transatlantic Circulation of Black Bodies and the Origins of Cranial Race Science in the Inter-Imperial Late Enlightenment"

Mukharji, Projit (Ashoka University and University of Pennsylvania), "Biometric Hybridity: Anglo-Indians, Race, and National Science in India, c. 1916-1969"

Reinhart, Eric (Northwestern University), "Unbecoming Subjects: Psychiatry, Race, and Disordering the

Subramaniam, Banu (University of Massachusetts, Amherst), "Roots of Coincidence: The Racial Politics of COVID-19"

Tamarkin, Noah (Cornell University; University of the Witwatersrand), "Postapartheid South African Indigenous DNA'

Warbrick, Isaac (Auckland University of Technology), "Racism and Weight-ism in the Māori Community: From Weight-Focused Health to Indigenous Solutions"

PRSS hosted its fourth symposium, "Medicine and the Afterlives of Slavery," on April 14, 2022, as part of its Penn Medicine and the Afterlives of Slavery Project, discussed on pp. 36-45.

Penn Program on Race, Science & Society

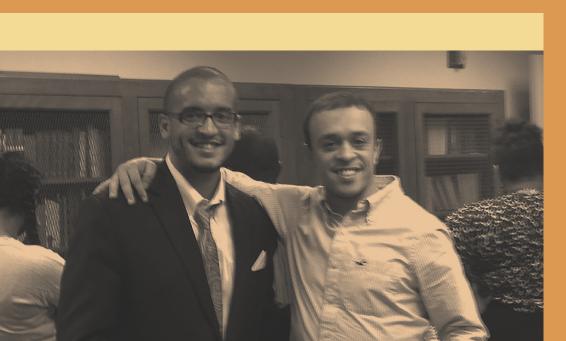
Celebrating 10 Years 2013–2023 29

Lecture 8 Colloquium Series



PRSS hosts a series of lectures and colloquia each year to promote transformative and interdisciplinary approaches to exploring the intersection of race, science and society from the perspectives of social science, biology, medicine, public health, and the humanities. Additionally, we partner with other Penn departments to co-sponsor events that align with PRSS's mission and interests. The goals of the series include understanding the scientific, social, and racialized implications of current biomedical research and health care practices; elucidating and addressing questions, concerns, and challenges raised by scientific research on race and racism; and proposing innovative solutions for moving forward in a way that is both socially equitable and scientifically valid. PRSS announced a different theme for the series each year, which loosely helped to determine the speakers we invited. The lecture and colloquium series was partially funded by a 2014 Provost's Excellence Through Diversity Fund Award. (Affiliations noted are at the time the lecture or colloquium took place.)







2013–2014: Race and Science: Regression or Revolution?



Lundy Braun

Professor in the Department of Africana Studies & Pathology and Laboratory Medicine at Brown University, November 18, 2013, "Racializing Lungs: A History of the Practice of "Race Correction" in Pulmonary Medicine"



Osagie K. Obasogie

Professor of Law at the University of California, Hastings, January 29, 2014, "Blinded by Sight: Seeing Race Through the Eyes of the Blind"



Claudia Chaufan

Associate Professor at the Institute for Health and Aging, University of California, San Francisco, March 19, 2014, "Not in Our Genes: Biology, Ideology, and the Missing Heritability "Problem" in Public Health Genomics"

2014–2015: Race in the Age of Big Data



Ruha Benjamin

Assistant Professor of African
American Studies and Faculty
Associate in the Program on History of
Science at Princeton University,
October 29, 2014, "The Emperor's
New Genes: Mapping and Marketing
Populations in a Global Context"



Peter Chow-White

Associate Professor in the School of Communication at Simon Fraser University and the Faculty of Medicine at the University of British Columbia, February 4, 2015, "Big Data, Race, and Communication: What are Challenges, Opportunities, and Risks for Genomics and Personalized Medicine"



Oliver Rollins

Postdoctoral Fellow in Penn Program on Race, Science & Society, March 19, 2015, "Biocriminology and the Enduring "Question of Race""



Jay Kaufman

Visiting Scholar in Penn Program on Race, Science & Society & Professor and Canada Research Chair in Health Disparities at McGill University, March 25, 2015, "How Do We Study Racial Disparities in Health and What Have We Learned?"



Jay Kaufman

Visiting Scholar in Penn Program on Race, Science & Society and Professor and Canada Research Chair in Health Disparities at McGill University, March 26, 2015, "Big Data Record Linkages for the Study of Racial Disparities in Disease and Mortality"



Aliya Saperstein

Assistant Professor of Sociology at Stanford University, April 8, 2015, "The Past and Present Significance of Racial Mobility" Lecture & Colloquium Series

2014–2015 (continued)



Jenny Reardon

Professor of Sociology, Faculty
Affiliate in the Center for Biomolecular
Science and Engineering, and Director
of the Science and Justice Research
Center at the University of California,
Santa Cruz, Monday, April 20, 2015,
"For Whom the Genome Tolls: Race,
Genomics and Justice in the American
South at the Turn of the Millennium"



Jonathan Metzl

Frederick B. Rentschler II Professor of Sociology and Psychiatry and the Director of the Center for Medicine, Health, and Society at Vanderbilt University, October 22, 2015, "Structural Competency: New Directions in Medical Training"



Alondra Nelson

Dean of Social Science and Professor of Sociology and Gender Studies at Columbia University, March 3, 2016, "The Social Life of DNA: Race, Reparations, and Reconciliation after the Genome"

2016–2017: The Global Impacts of Race in Biomedicine



Ann Morning

Associate Professor of Sociology at New York University, September 20, 2016, "'There's Just One Human Race': Notions of Biological Difference in a Color-Blind Italy"



Jonathan Metzl

Frederick B. Rentschler II Professor of Sociology and Psychiatry and the Director of the Center for Medicine, Health, and Society at Vanderbilt University, March 30, 2017, "Dying of Whiteness"

2017–2018: Race and Science From A Global Perspective



Yulia Egorova

Associate Professor of Anthropology at Durham University in Durham, England, November 28, 2017, "Genomic Sovereignty and Genetic Research on Jewish Populations"



Aaron Panofsky

Associate Professor in the Institute for Society and Genetics, Public Policy, and Sociology at the University of California, Los Angeles, February 13, 2018, "When Genetics Challenge A Racist's Identity"

2018-2019: **Ordering the Human**



Dorothy Roberts

January 23, 2019, "Race, Medicine and Justice," keynote address for the Martin Luther King, Jr. Celebration for the Hospital of the University of Pennsylvania and co-sponsored by PRSS



Dr. Jonathan Woodson

former Assistant Secretary of Defense for Health Affairs for the U.S. Department of Defense, January 23, 2019, "Martin Luther King, Jr. Health Equity Symposium," sponsored by the Penn Medicine Office of Inclusion and Diversity and co-sponsored by PRSS



Natalie Shibley

Postdoctoral Fellow in Penn Program on Race, Science & Society, February 28, 2019, "Peanut Panacea: The Medical Ideas of George Washington Carver"



Dorothy Roberts

April 5, 2019, "Mistreating Health Inequities in the Genomic Age," sponsored by the Perelman School of Medicine and co-sponsored by PRSS







Jonathan Metzl, Frederick B. Rentschler II Professor of Sociology and Psychiatry and the Director of the Center for Medicine, Health, and Society at Vanderbilt University; **Dorothy** Roberts; Anthea Butler, Geraldine R. Segal Professor in American Social Thought, April 17, 2019, "The Politics of Race in America: A Conversation with Jonathan Metzl, Dorothy Roberts and Anthea Butler," sponsored by Slought and the Health Ecologies Lab and co-sponsored by PRSS

Jessika Rezende Souza, Nicola Ismaila Dieng, and **Daryl Lamont Jenkins**

"Fascism and Racism: Intimate Partners in Modern Politics," April 23, 2019, sponsored by the Department of Africana Studies, the Center for Africana Studies, PRSS, and the Marginalized Populations Project

2019-2020: Penn Medicine & The Afterlives of Slavery



Ruha Benjamin

Associate Professor of African American Studies and Faculty Associate in the Program on History of Science at Princeton University, December 9, 2019, "A New Jim Code? Race, Carceral Technoscience, and Liberatory Imagination in Everyday Life"



Natalie Shibley

Postdoctoral Fellow in Penn Program on Race, Science & Society, January 28, 2020, "Race, Homosexuality and Military Justice"



Terence Keel

Associate Professor in the Department of African American Studies and Institute for Society and Genetics at the University of California, Los Angeles, February 19, 2020, "Christianity, Race, and the Haunting of Biomedical Science"

Lecture & **Colloquium Series**

2019-2020 (continued)



Ezelle Sanford III

Postdoctoral Fellow in Penn Program on Race, Science & Society, May 5, 2020, "Penn Medicine and the Afterlives of Slavery Project: Penn Bioethics Seminar,"sponsored by the Department of Medical Ethics and Health Policy and co-sponsored by **PRSS**

2020-2021: Penn Medicine & The **Afterlives of Slavery**



Wangui Muigai

Associate Professor of History, African and African American Studies and the Program in Health: Science, Society & Policy at Brandeis University, September 21, 2020, "Counting Deaths: A Historical Look at Black Infant Mortality"



Dorothy Roberts

February 3, 2021, "The History and Future of Race, Health and Justice," keynote address for the Martin Luther King, Jr. Health Equity Symposium sponsored by the Penn Medicine Office of Inclusion and Diversity and co-sponsored by PRSS

2021-2023: Penn **Medicine & The Afterlives of Slavery**

On April 14, 2022, PRSS held its fourth symposium, titled "Medicine and the Afterlives of Slavery," as discussed on pages 36-45. It featured presentations by scholars from various fields conducting research on medicine and the enduring legacy of enslavement.

Additional Events



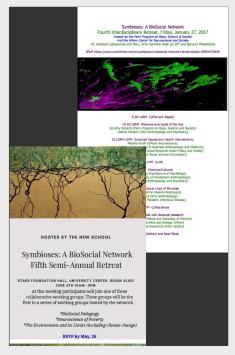
Sorting Brains Out: Task, Tests, and Trials in the Neuro and Mind Sciences, 1890-2015 September 18-19, 2015

The two-day conference, which was organized by Penn's History and Sociology of Science Department and co-sponsored by PRSS, focused on the social, philosophical, political, and ethical commitments that have been reflected, reinforced, denounced, or rejected by the psy- and neuro-fields. It also considered to what extent, if at all, modern conceptions of mind and brain continue and elaborate much older ideas. PRSS Postdoctoral Fellow Oliver Rollins chaired a panel at the meeting.



Translating Race in Eurasia Colloquium **September 24, 2016**

Co-sponsored by PRSS; Penn Humanities Forum on "Translation"; the School of Arts & Sciences (Penn); Cinema Studies (Penn), the Program in Comparative Literature (Penn); the Center for Africana Studies (Penn); the departments of Africana Studies, Art History, English, and History (Penn); the Center for Russia and East European Studies (University of Pittsburgh); the Ellison Center for Russian, East European and Central Asian Studies (University of Washington-Seattle); and the Institute of Slavic, East European, and Eurasian Studies (UC Berkeley).



Symbioses: A BioSocial Network Retreats, 2017-2018

In 2017, PRSS Director, Dorothy Roberts, joined with Professors Helena Hansen and Rayna Rapp at NYU to launch "Symbioses: A BioSocial Network." Symbioses was an interdisciplinary research network that connected life scientists, social scientists, and humanities scholars working at the nexus of biology and social life across several East Coast universities. Between 2017 and 2018, Symbioses hosted five network retreats at PRSS, Johns Hopkins, the New School, Princeton, and Rutgers Institute for Health. The networking meetings resulted in the formation of three working groups that produced collaborative projects on the environment and its constraints, the neuroscience of poverty, and biosocial pedagogy.

Lecture & **Colloquium Series**

Co-sponsors of Lecture & Colloquium Series

Department of Africana Studies

Center for Africana Studies

Biomedical Graduate Student Association

Graduate and Professional Student Assembly

Black Law Student Association

Department of Sociology

School of Nursing

Annenberg School for Communication

Department of Genetics at the Perelman School of Medicine

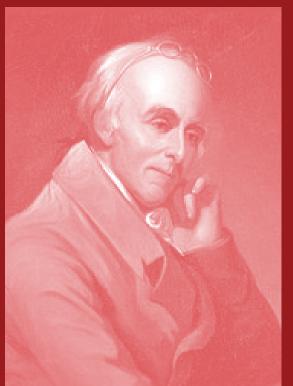
Center for Clinical Epidemiology and Biostatistics & Department of Biostatistics and Epidemiology

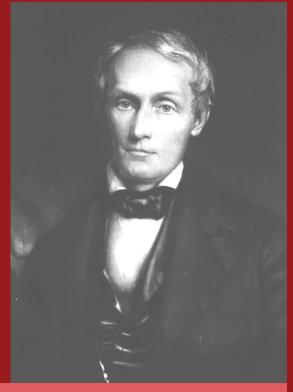
Office of Inclusion and Diversity, Perelman School of Medicine

Department of Anthropology

Department of History and Sociology of Science

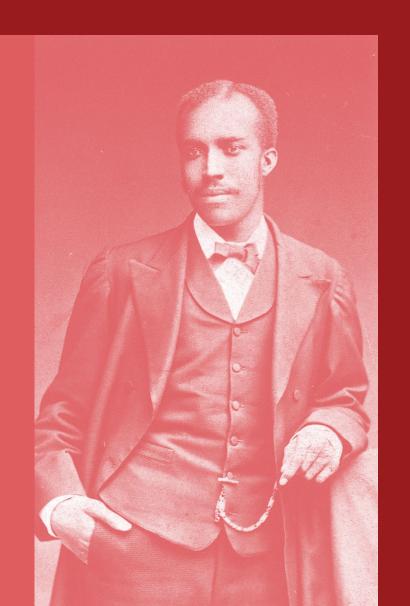
Penn Population Studies Center











About the Project

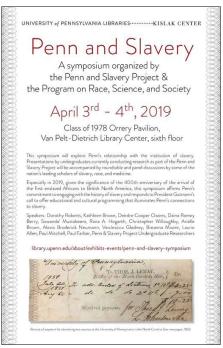
The Penn and Slavery Project (P&SP) was launched in 2017 by a group of Penn undergraduate students to uncover and document the university's historical connections to enslavement. Supervised by Penn Professor of History Kathleen Brown, the students conducted ground-breaking research into Penn's archives and discovered that many of the university's trustees and faculty members were enslavers, that an enslaved man worked in a dorm, and that the university conducted fundraising campaigns in the South and in Jamaica to solicit donations from enslavers. They also unearthed Penn's extensive contributions to the production of racialized medical knowledge and practice that supported slavery. In addition to participating in the widespread practice of exploiting Black people's bodies for experimentation and anatomical study, professors at Penn's School of Medicine, the first medical school established in the United States, developed and taught racist claims about the biological peculiarities of Black people and widely disseminated these ideas to justify enslaving them.

In 2018, former Penn President Dr. Amy Gutmann created a faculty committee to study and report on Penn's historical entanglements with slavery, which was chaired by then-Provost Wendell Pritchett and included PRSS Director Dorothy Roberts. Following the committee's recommendations, President Gutmann requested that Professor Roberts further investigate "the impact of the medical school's pedagogy, research and medical practices on alumni and its lingering effects on medicine." Roberts launched the Penn Medicine and the Afterlives of Slavery Project (PMAS) in 2019 with the assistance of PRSS postdoctoral fellow Ezelle Sanford III. The initiative proceeds on two fronts: first, to research and document the Penn medical school's historical connections to slavery; and second, to use this research to foster meaningful changes in the myriad ways race continues to manifest in medical research, education and practice. PMAS seeks not only to study and record the historical ties between the institution of slavery and Penn's medical school but also to end the ongoing consequences of this connection at Penn and beyond.



Slavery and Medicine: What Was Penn's Role?

In 2019, the P&SP and PMAS co-sponsored a symposium titled "Penn and Slavery" to explore Penn's relationship with the institution of slavery. The symposium, held on April 3rd and 4th at Penn's Van Pelt-Dietrich Library Center, featured presentations by undergraduate students conducting research as part of the P&SP, as well as roundtable and panel discussions by some of the nation's leading scholars of slavery, race, and medicine. PMAS organized the "Slavery and Medicine: What Was Penn's Role?" panel. Dorothy Roberts introduced and moderated the panel that included the following speakers: Daina Ramey Berry (Oliver H. Radkey Regents Professor of History, University of Texas at Austin), Sowande' Mustakeem (Associate Professor of History and of African and African-American Studies, Washington University in St. Louis), Rana Hogarth (Assistant Professor of History, University of Illinois at Urbana-Champaign), and Christopher Willoughby (Lapidus Center Postdoctoral Fellow, Schomburg Center for Research in Black Culture, New York Public Library). Roberts also participated in the Plenary Roundtable alongside Kathleen Brown (David Boies Professor of History, University of Pennsylvania) and Deirdre Cooper Owens (Associate Professor of History, Queens College, CUNY), moderated by William Noel (Director of the Kislak Center & the Schoenberg Institute for Manuscript Studies, University of Pennsylvania).





PMAS Logo created by Penn Alumna Jordan Andrews 2020.

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Penn Medicine and the Afterlives of Slavery Project

Medicine and the Afterlives of Slavery Symposium April 14, 2022

PRSS hosted its fourth symposium, "Medicine and the Afterlives of Slavery," on April 14, 2022. The virtual conference brought together scholars and graduate students whose work advances the PMAS project's dual goals of researching and documenting the history of Penn's and other medical schools' connections to slavery and using the research findings to foster significant change in the practice of medicine. The symposium examined not only the historical links between medical schools and slavery, but also the lasting effects of this connection in modern medicine and the urgent need for Penn to take a leading role in addressing this ongoing legacy. The symposium consisted of four panels that focused on history, race-correction in medical practice, medical school curricula, and community engagement, reflecting the key areas of PMAS's concern.

"As the first medical school, we have a responsibility to actually help academic medicine, all of medicine really, reset its course on the right track as it relates to race and racism."

 Eve Higginbotham, SM, MD, ML, Vice Dean for Penn Medicine Office of Inclusion, Diversity, and Equity



Penn Medicine and the Afterlives of Slavery Project

Welcome & Introduction



Dorothy RobertsDirector, Penn PRSS



Eve Higginbotham
Keynote Speaker: Vice Dean for Penn
Medicine Office of Inclusion, Diversity,
and Equity, Professor of
Ophthalmology, and Senior Fellow of
Leonard Davis Institute for Health
Economics, University of
Pennsylvania, "Addressing Structural
Racism in Medicine: Moving from
Scholarship to Action"

Panel 1: History



Moderator: Nic Ramos
Assistant Professor of History,
Africana Studies, and the Center for
Science, Technology, and Society,
Drexel University; Ford Foundation
Postdoctoral Fellow in PRSS,
University of Pennsylvania



Brittany Farr
Assistant Professor of Law, New York
University; Former PMAS Affiliate
Postdoctoral Fellow, University of
Pennsylvania, "Warranties of
Soundness and the Intersection of
Law, Medicine and Slavery"



VanJessica Gladney
Ph.D. Student in the Department of
History and PRSS Affiliate Student,
University of Pennsylvania, "Penn &
Slavery Project: The Medical School &
the Afterlives of Slavery"



Paul Wolff Mitchell
Ph.D. Student in the Department of
Anthropology and PMAS Affiliate
Doctoral Fellow, University of
Pennsylvania, "Ghost Values and Data
Afterlives of the Enslaved in the 19th
Century Cadaver Trade in Philadelphia"

Panel 2: Race Correction



Moderator: Brittany Farr

Assistant Professor of Law, New York University; Former PMAS Affiliate Postdoctoral Fellow, University of Pennsylvania



Nwamaka Eneanya

Nephrologist and Head of Strategy and Operations at Fresenius Medical Care; Former Assistant Professor of Medicine and Epidemiology and Director of Health Equity, Anti-Racism and Community Engagement in the Nephrology Division, University of Pennsylvania, "Lessons Learned from Using Black Race to Diagnose Kidney Disease"



Marie Plaisime

FXB Health and Human Rights Fellow, Harvard University; National Science Foundation Affiliate Postdoctoral Fellow in PRSS, University of Pennsylvania, "Hidden Truths: Addressing Racial Bias and Race-Based Medicine in Healthcare"



Rebecca Feldman Hamm

Assistant Professor of Obstetrics and Gynecology, Pennsylvania Hospital; Senior Fellow, Leonard Davis Institute of Health Economics, University of Pennsylvania, "Association between race and hemoglobin at delivery or need for transfusion when using race-based definitions for treatment of antepartum anemia"



Dorothy Roberts

Director, Penn PRSS

Panel 3: Medical School Curriculum



Moderator: Hafeeza Anchrum

PRSS Postdoctoral Fellow and PMAS Project Manager, University of Pennsylvania



Jaya Aysola

Associate Professor of Medicine and Pediatrics, Perelman School of Medicine, University of Pennsylvania, "PRSS Spring 2022 Symposium Panel: Medical School Curriculum"



Kaliya Greenidge

Program Assistant at Penn Medicine Center for Health Equity Advancement, University of Pennsylvania, "PRSS Spring 2022 Symposium Panel: Medical School Curriculum" Penn Medicine and the Afterlives of Slavery Project

Panel 3 (continued)



Christina Amutah

Medical Student, Perelman School of Medicine, University of Pennsylvania, "PRSS Spring 2022 Symposium Panel: Medical School Curriculum"



Sanina Surva

Medical Student, Perelman School of Medicine, University of Pennsylvania, "PRSS Spring 2022 Symposium Panel: Medical School Curriculum"

Panel 4: Community Engagement



Moderator: Marie Plaisime

FXB Health and Human Rights Fellow, Harvard University; National Science Foundation Affiliate Postdoctoral Fellow in PRSS, University of Pennsylvania



Nic Ramos

Assistant Professor of History, Africana Studies, and the Center for Science, Technology, and Society, Drexel University; Ford Foundation Postdoctoral Fellow in PRSS, University of Pennsylvania, "King-Drew Medical Center"



Hafeeza Anchrum

PRSS Postdoctoral Fellow and PMAS Project Manager, University of Pennsylvania, "The Ladies Auxiliary of Frederick Douglass Memorial Hospital & Nurse Training School, 1895–1948"



Ezelle Sanford III

Assistant Professor of History, Carnegie Mellon University; Former PRSS Postdoctoral Fellow and PMAS Project Manager, University of Pennsylvania, "Reviving St. Louis's Homer G. Phillips Hospital"



Adam Biggs

Postdoctoral Fellow in History, Rutgers University-New Brunswick, "U. Conrad Vincent and the Desegregation of Harlem Hospital"



Eugenia South

Assistant Professor of Emergency
Medicine and Faculty Director of
Urban Health Lab, Perelman School of
Medicine, University of Pennsylvania,
"Penn Urban Health Lab:
Community-centered approach to
research"

PMAS Fellows (Titles noted are at the time of the PRSS fellowship.)



Hafeeza Anchrum PRSS Postdoctoral Fellow and PMAS Project Manager



Kristina Dortche Affiliate Medical Student Research Fellow



Brittany Farr Affiliate Postdoctoral Fellow



VanJessica Gladney Affiliate Doctoral Fellow



Kaliya Greenidge Affiliate Medical Student



Paul Wolff Mitchell Affiliate Doctoral Fellow



Zonia Moore Volunteer Medical Student Research Fellow



Alexis Broderick Neumann Postdoctoral Fellow P&S Project



Marie Plaisime Affiliate PRSS Postdoctoral Fellow



Nic Ramos Affiliate PRSS Postdoctoral Fellow

Collaborating Faculty



Ezelle Sanford III

Nina Wade

Research Fellow

Visiting Fellow

PRSS Postdoctoral Fellow

Affiliate Medical Student

Christopher Willoughby

and PMAS Project Manager

Jaya Aysola Associate Professor of Medicine and Pediatrics, Perelman School of Medicine



Kathleen Brown David Boies Professor of History, School of Arts and Sciences



Nwamaka Eneanya (former) Assistant Professor of Medicine and Epidemiology, Perelman School of Medicine



Eve Higginbotham Vice Dean for Penn Medicine Office of Inclusion, Diversity, and Equity and Professor of Ophthalmology, Perelman School of Medicine



Harald Schmidt Assistant Professor of Medical Ethics & Health Policy, Perelman School of Medicine

Research by PMAS Fellows & Affiliates

Amuta, C., Greenidge, K., Mante, A., Munyikwa, M., Surya, S.L., Higginbotham, E., Jones, D.S., Lavizzo-Mourey, R., Roberts, D., Tsai, J., & Aysola, J. (2021). Misrepresenting race — The role of medical schools in propagating physician bias. New England Journal of Medicine

Dortche K., & Moore Z. (2020). Race in medicine [Unpublished manuscript]. Penn Program on Race, Science & Society and Perelman School of Medicine, University of Pennsylvania.

Eneanya N.D., Yang W., & Reese P.P. (2019). Reconsidering the consequences of using race to estimate kidney function. Journal of the American Medical Association, 322(2), 113-114.

Farr, B. Gender problems in the law and medicine of slavery [Unpublished manuscript]. Penn Program on Race, Science & Society, University of Pennsylvania.

Mitchell, P.W. (2018). The fault in his seeds: Lost notes to the case of bias in Samuel George Morton's cranial race science. PLOS Biology, 16(10), e2007008.

Mitchell, P.W. (2021). Black Philadelphians in the Samuel George Morton Cranial Collection [Unpublished manuscript]. Penn Program on Race, Science & Society, University of Pennsylvania.

Roberts, D.E. (2021). Abolish race correction. The Lancet, 397(10268), 17-18.

Schmidt H., Roberts D.E., & Eneanya N.D. (2022). Rationing, racism, and justice: Advancing the debate around 'colourblind' COVID-19 ventilator allocation. Journal of Medical Ethics, 48, 126-130.

Penn Medicine's Office of Inclusion, Diversity, and Equity. (2019). Commitment to health equity featured at the American Public Health Association meeting in Philadelphia.

Penn & Slavery Project.

Wade, N. (2020). eGFR and race: A study in inaccuracy [Unpublished manuscript]. Penn Program on Race, Science & Society, University of Pennsylvania.

Willoughby, C. (2020). How Penn professors racialized American anatomy: A brief history [Unpublished manuscript]. Penn Program on Race, Science & Society, University of

Willoughby, C. (2022). Masters of health: Racial science and slavery in U.S. medical schools. University of North Carolina Press.











Advisory Board

The Advisory Board was comprised of faculty drawn from schools across Penn who engage in research on race, racism, and their effects on society from social science, medical, public health and humanistic perspectives. They provided suggestions, advice, and innovative ideas in support of the program's objectives. The following Penn professors were members of the Advisory Board. (Affiliations noted are at the time of service on the Advisory Board.)



Chyke Doubeni
Presidential Associate Professor of
Family Medicine & Community Health



Loretta Jemmott van Ameringen Professor in Psychiatric Mental Health Nursing



Shiriki Kumanyika
Professor of Epidemiology



Susan Lindee
Janice & Julian Bers Professor of
History & Sociology of Science



Pamela Sankar
Associate Professor of Medical Ethics
and Health Policy



Tukufu Zuberi
The Lasry Family Professor of Race
Relations and Professor of Sociology
and Africana Studies

Faculty Working Group

In keeping with its mission to facilitate transdisciplinary and innovative research, PRSS created an evolving working group composed of professors and postdoctoral fellows from various academic disciplines. Working group members meet to present their scholarly work, engage with guest speakers and potential collaborators, and share information about the status of their research. Topics of discussion include exploring the possibility of conducting collaborative research and other initiatives and the progress of collaborative projects generated by the group. We also invite undergraduate and graduate students to participate in program activities. The working group meetings were partially funded by SAS Faculty Working Group grants. Between 2013 and 2023, the working group included the following individuals at different points (affiliations noted are at the time of working group membership).

Eram Alam

Postdoctoral Fellow, PRSS

Hafeeza Anchrum

Postdoctoral Fellow, PRSS

Bridgette Brawner

Professor of Nursing

Ezekiel Dixon-Román

Professor of Critical Race, Media, and Educational Studies

Chyke Doubeni

Presidential Associate Professor of Family Medicine and Community Health

Nwamaka Eneanya

Assistant Professor of Medicine and Epidemiology

Martha Farah

Professor of Neuroscience

Brittany Farr

Postdoctoral Fellow, PRSS

Sebastián Gil-Riaño

Assistant Professor of History and Sociology of Science

Rebecca Hamm

Assistant Professor of Obstetrics and Gynecology

Eve Higginbotham

Vice Dean of Inclusion, Diversity and Equity at Perelman School of Medicine and Professor of Ophthalmology

Susan Lindee

Janice & Julian Bers Professor of History and Sociology of Science

Proiit Mukharii

Professor of History and Sociology of Science

Michelle Munyikwa

MD and PhD Candidate

Emilio Parrado

Dorothy Swaine Thomas Professor of Sociology

Adriana Perez

Professor of Nursing

Adriana Petryna

Professor of Anthropology

Marie Plaisime

Postdoctoral Fellow, PRSS

Reed Pyeritz

William Smilow Professor of Medicine

Nic Ramos

Postdoctoral Fellow, PRSS; Assistant Professor of History and Africana Studies, Drexel University

Oliver Rollins

Postdoctoral Fellow, PRSS

Ezelle Sanford III

Postdoctoral Fellow, PRSS

Pamela Sankar

Associate Professor of Medical Ethics and Health Policy

Natalie Shibley

Postdoctoral Fellow, PRSS

Eugenia C. South

Assistant Professor of Emergency Medicine

Quayshawn Spencer

Presidential Associate
Professor of Philosophy

Sarah Tishkoff

David and Lyn Silfen Professor in Genetics and Biology

Michael Weisberg

Heyman President's Distinguished Professor

Christopher Willoughby

Visiting Scholar, PRSS

Michael Yudell

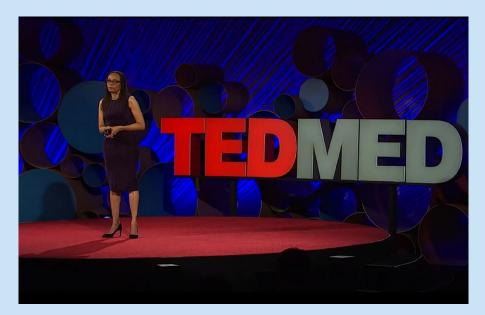
of Philosophy

Associate Professor of Community Health and Prevention, Drexel University

Tukufu Zuberi

The Lasry Family Professor of Race Relations and Professor of Sociology and Africana Studies

News



2015: PRSS Director Dorothy Roberts discusses the history, myths, and harms of race-based medicine in her TEDTalk: The Problem with Race-based Medicine, November 20, 2015. The talk was part of the 2015 TEDMED session called "Who Cares for Health Care?" that highlighted surprising perspectives and under-appreciated challenges facing our health care system. Professor Roberts's TEDTalk has been viewed more than 1.5 million times.

2016: PRSS Director Dorothy Roberts and Faculty Working Group members Sarah Tishkoff and Michael Yudell collaborated to write a widely-cited article published in *Science*, "Taking Race Out of Human Genetics," calling for scientists to stop using race as a variable in human genetic variation research.



2017: PRSS Director Dorothy Roberts was elected to the National Academy of Medicine (NAM). Faculty Working Group Member Sarah Tishkoff was elected to NAM in 2021.

2020: Faculty Working Group member Professor Susan Lindee published an essay in Made by History, the history blog of the *Washington Post*. She calls for a government mobilization of science, similar to the investment in science during World War II, as a way to find solutions to the COVID-19 crisis.

2020: PRSS Director Dorothy Roberts and Faculty Working Group members Sarah Tishkoff and Michael Yudell wrote a follow-up article published in *Science* and signed by 70 scientists, "NIH Must Confront the Use of Race in Science," calling for the National Institutes of Health to investigate the continued and confused use of false biological concepts of race in science and provide guidance for researchers.

2021: PRSS posted a paper, "Black Philadelphians in the Samuel George Morton Cranial Collection," by Affiliated Doctoral Fellow Paul Wolff Mitchell discussing the history of graverobbing for dissection and anatomical study in medical schools and private collections and documenting his finding of Black Philadelphians' remains in the Penn Museum's Samuel George Morton Cranial Collection.



2022.

2021: PRSS issued a Response to
Retention and Use of MOVE Bombing
Victims' Remains by the Penn
Museum. PRSS Director Dorothy
Roberts and Faculty Working Group
members Ezelle Sanford III, Hafeeza
Anchrum, Michael Yudell, and
Sebastián Gil-Riaño, along with PMAS
Affiliate Doctoral Fellow Paul Wolff
Mitchell and Graduate Student Raka
Sen, prepared the response.

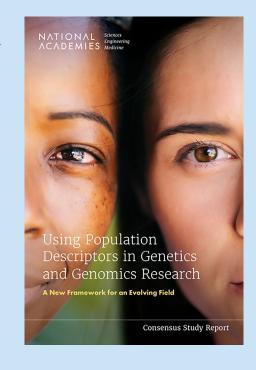
2021: PRSS Director Dorothy Roberts spoke about PMAS at a national symposium, "Slavery and the University," sponsored by the Gilder Lehrman Center for the Study of Slavery, Resistance, and Abolition at Yale University, October 29, 2021.

2022: PRSS Faculty Working Group member Tukufu Zuberi was featured in PBS News Hour episode, Museum Works to Repatriate Artifacts Looted from West Africa, on December 7,

2022–2023: PRSS Director Dorothy Roberts and Faculty Working Group member Sarah Tishkoff served on the National Academy of Sciences, Engineering, and Medicine (NASEM) Committee on the Use of Race, Ethnicity, and Ancestry as Population Descriptors in Genetic and Genomic Research, sponsored by the National Institutes of Health. NASEM released the Committee's consensus report, Using Population Descriptors in Genetics and Genomics Research: A New Framework for an Evolving Field in March 2023.

2023: PRSS Postdoctoral Fellow Hafeeza Anchrum was featured in WHYY's Movers & Makers special episode, "The Story of Mercy-Douglass Hospital." The episode, which aired on February 16, 2023 explores the history of Philadelphia hospitals established by the Black community.





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Postdoctoral Fellows



Garry Bertholf 2013–2015, Inaugural Postdoctoral Fellow

Garry Bertholf is an Assistant Professor in the Department of African American Studies at Wesleyan University. He was the first recipient of the Ph.D. in Penn's Department of Africana Studies, the Inaugural Postdoctoral Fellow of PRSS, an associate scholar of the Penn Humanities Forum on "Violence," and a lecturer of cultural studies and criticism in the Critical Writing Program of the Center for Programs in Contemporary Writing. Bertholf's research and teaching focus on Africana literature and literary criticism, as well as black cultural production and intellectual history. He is the author of Black Sophists: A Critique of Demagoguery (Ph.D. Diss., University of Pennsylvania, 2013) and paired transcriptions of John Coltrane's 1957 Carnegie Hall performances of Thelonious Monk's "Epistrophy."



Oliver Rollins
2015–2017. Postdoctoral Fellow

Oliver Rollins is an Assistant Professor in the Department of American Ethnic Studies at the University of Washington. As a qualitative sociologist, Rollins works on issues of race/racism in and through science and technology including the making and use of neuroscientific technologies and knowledges. Rollins's book, Conviction: The Making and Unmaking of The Violent Brain (Stanford University Press, 2021), traces the development and use of neuroimaging research on anti-social behaviors and crime, with special attention to the limits of this controversial brain model when dealing with aspects of social difference, power, and inequality. Rollins's current projects focus on 1) the social implications and challenges of operationalizing racial prejudice, implicit bias, and identity as neurobiological processes, and 2) the politics of social justice and (neuro)

science.



Eram Alam 2016–2018. Postdoctoral Fellow

Eram Alam is an Assistant Professor in the Department of the History of Science at Harvard University. She specializes in the history of medicine, with a particular emphasis on globalization, race, migration, and health during the twentieth century. Alam is currently working on two book projects. The first, The Care of Foreigners: A History of South Asian Physicians in the United States, 1965-2017, explores the enduring consequences of postcolonial physician migration from South Asia to the United States. The Care of Foreigners foregrounds global dynamics embedded in the medical system to ask how and why Asian physicians - and especially practitioners from South Asia - have become integral to US medical practice and a ubiquitous presence in mainstream mass media. The second book, a co-edited volume with Dorothy Roberts and Natalie Shibley, is Ordering the Human: The Global Spread of Racial Science.



Natalie Shibley

2018–2020, Postdoctoral Fellow

Natalie Shibley is a Visiting Assistant Professor at Northeastern University. She has also taught courses in history, science and technology studies, and gender and sexuality studies at Wesleyan University and the University of Pennsylvania. She earned a PhD from the University of Pennsylvania, where she was the first recipient of a joint doctoral degree in Africana Studies and History. While a Postdoctoral Fellow in PRSS and an affiliate Postdoctoral Fellow of the Penn Medicine and the Afterlives of Slavery project, she co-organized the 2019 "Penn and Slavery" Symposium. Shibley is currently co-editing the volume, Ordering the Human: The Global Spread of Racial Science (under contract Columbia University Press), with Dorothy Roberts and Eram Alam and writing a manuscript about race, homosexuality investigations, and notions of disease in the U.S. military from the 1940s to 1990s.



Ezelle Sanford III

2019–2021, Postdoctoral Fellow

Ezelle Sanford III is an Assistant Professor of History at Carnegie Mellon University. While a Postdoctoral Fellow in PRSS, he was also the project manager for the Penn Medicine and Afterlives of Slavery project and played a key role in the development of the project. Sanford's scholarship sits at the intersection of African American, medical, and urban histories. He is currently working on a book project titled, Segregated Medicine: How Racial Politics Shaped American Healthcare (under contract Columbia University Press), which utilizes the case of St. Louis's Homer G. Phillips Hospital, America's largest segregated hospital in the midtwentieth century, to trace how the logic and legacy of racial segregation established structures of healthcare inequality that persist to this day. His work has been featured in popular and academic publications and has received several fellowships and awards.



Hafeeza Anchrum

2021–2023, Postdoctoral Fellow

Hafeeza Anchrum is a registered nurse and a Postdoctoral Fellow in PRSS, where she co-manages the "Penn Medicine and the Afterlives of Slavery" project. Anchrum's research program draws on the history of African American nurses to examine broader concerns pertaining to race, gender, and American healthcare from the late 19th century to the present. She is the author of A New Era in the Struggle for Nursing Civil Rights: Mercy-Douglass Hospital School of Nursing (Ph.D. Diss., University of Pennsylvania, 2021), which investigates the fight for racial equality waged by Black nurses in the North using Philadelphia's Black-run Mercy-Douglass Hospital as a case study. Anchrum is in the process of transforming her dissertation into a book manuscript, as well as researching the connections between Penn's Hospital Nurse Training School and Medical School.

Postdoctoral Fellows (continued)



Nic John Ramos 2021-2023, Ford Foundation Postdoctoral Fellow

Nic John Ramos is a Ford Foundation Postdoctoral Fellow in PRSS and an Assistant Professor of History, Africana Studies, and the Center for Science, Technology, and Society at Drexel University. His current book project, tentatively titled "Policing Health: Making Race, Sexuality, and Poverty Productive in Global Los Angeles, 1965–1986," brings together discourses of feminist, queer, and disability studies with political economy, Africana Studies, and Latino/a studies to investigate the history of King-Drew Medical Center, an iconic public hospital built in Los Angeles after the 1965 Watts Riots. Ramos demonstrates that, although King-Drew was originally conceived as a vehicle for black medical and economic inclusion, local city and medical authorities became complicit in building of new "nonmedical" institutions such as a modern skid row, expanded prisons, and enlarged police forces.



Marie Plaisime 2021-2023, Affiliate NSF Postdoctoral Fellow

Marie Plaisime is a medical sociologist and a joint National Science Foundation (NSF) affiliate Postdoctoral Fellow in PRSS and FXB Health and Human Rights Fellow at Harvard University. As a first-generation Haitian American woman, Plaisime applies critical quantitative, computational, and mixed methodological (QCM) tools to detect, examine and quantify how structural racism in medicine jeopardizes healthcare delivery, access, and quality. Plaisime's research investigates the mechanisms through which health is racialized by examining racial bias, race-based medicine, algorithmic bias, social movements, and health policy. As an NSF postdoctoral fellow, Marie is working on a project, Moving Beyond Bias: Structural Competency in Medical Education, to assess medical providers' perceptions of structural competency pedagogy, race-based medicine, and structural racism in medical education.

Affiliate Students

Manvir Dhaliwal, J.D. Candidate, Penn Carey Law School

Kristina Dortche, Medical Student, Perelman School of Medicine

VanJessica Gladney, PhD Candidate, Department of History

Kaliya Greenidge, Medical Student, Perelman School of Medicine

Nicole Harrington, Undergraduate, Department of Neuroscience

Paul Wolff Mitchell, PhD Candidate, Department of Anthropology

Zonia Moore, Medical Student, Perelman School of Medicine

Michelle Munyikwa, MD and PhD Candidate, Department of Anthropology

Rebecca Schut, PhD student, Department of Sociology and Demography

Stephanie Teeple, PhD student, Department of Epidemiology

Nina Wade, Medical Student, Perelman School of Medicine

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