

SHEETHAL JOSE

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EDUCATION

- 2019-2023 (expected) **Doctor of Philosophy**, Health Policy and Management
Berman Institute of Bioethics & Bloomberg School of Public Health, Johns Hopkins University
Concentration: Bioethics and Health Policy
Dissertation: The Ethical, Legal, and Social Implications (ELSI) of Using Genomics-Based Approaches to Manage and Control Infectious Disease Outbreaks: A Study of US Health Professionals' Perspectives
Committee: Jeffrey Kahn (primary), Kadija Ferryman, Gail Geller, Debra Mathews
- 2012-2016 **Bachelor of Science**, Biology
College of Arts and Sciences, University of Virginia
- 2012-2016 **Bachelor of Arts**, Foreign Affairs, French (minor)
College of Arts and Sciences, University of Virginia

PROFESSIONAL EXPERIENCE

- 2020-Present ***Project Coordinator & Graduate Research Assistant***
Johns Hopkins Berman Institute of Bioethics, Baltimore, MD
- Led independent dissertation research study to measure health professionals' perspectives on the use of COVID-19 host genomic information in clinical, public health, and workforce settings
 - Managed and coordinated multiple NIH-funded research projects: (1) Families At Risk – Long-term Impact of Huntington's Diseases (HD) Presymptomatic Genetic Testing, (2) Beyond Boundaries – ELSI and the Complex Relationships between Infectious and Genetic Diseases, and (3) Risks, Benefits, and Stakeholder Perspectives of Molecular Epidemiology for HIV Prevention
- 2016-2019 ***Scientific Program Analyst***
National Human Genome Research Institute (NHGRI), Bethesda, MD
- Provided direct administrative and procedural support for large extramural NHGRI consortia: Electronic Medical Records and Genomics (eMERGE) Network and Knockout Mouse Phenotyping (KOMP) Program/International Mouse Phenotyping Consortium (IMPC)
- 2015 ***Business Development Intern***
Arpana Services, Himachal Pradesh, India
- Initiated tourism as a revenue source for 6 to 8 villages in the Chamba district and recommended strategies to implement sustainable sources of income, specifically in the ecotourism industry, for the educated youth in the villages
- 2013-2015 ***Research Assistant***
University of Virginia Medical School, Charlottesville, VA
- Researched cost-effective and preventive treatments for autoimmune disorders by using lab materials efficiently and reducing turnaround times for flow cytometry data analyses from months to weeks

HONORS AND AWARDS

2023	Provost's Office Dissertation Completion Fellowship
2019-2023	Health Policy and Management Departmental Scholarship
2019-2023	Richard M. Danziger Fund Dissertation Award
2020-2022	The June Culley Scholarship in Health Policy and Management
2018-2019	National Institutes of Health Distinguished Achievement Award
2018	International Genetic Epidemiology Society Best Poster Award
2015	University of Virginia Global Internship Scholarship
2012-2015	University of Virginia Dean's List
2013-2014	Harrison Undergraduate Research Award
2014	The Frank and Sara McKnight Prize in Undergraduate Biological Chemistry Semi-Finalist
2012	United Nations 56 th Commission on the Status of Women Delegate and Panelist

PUBLICATIONS

Peer-reviewed publications

- 1) eMERGE Consortium [including **Jose S**]. Lessons learned from the eMERGE Network: balancing genomics in discovery and practice. *Human Genetics and Genomics Advances*. 2021; 2(1), 100018.
- 2) eMERGE Consortium [including **Jose S**]. Harmonizing Clinical Sequencing and Interpretation for the eMERGE III Network. *American Journal of Human Genetics*. 2019; 105(3), 588.
- 3) Stremaska, ME, Dai C, Venkatadri R, Wang H, Sabapathy V, Kumar G, **Jose S**, Mohammad S, Sung SJ, Fu SM, Sharma R. IL233, an IL-2-IL-33 Hybrid Cytokine Induces Prolonged Remission of Mouse Lupus Nephritis by Targeting Treg Cells as a Single Therapeutic Agent. *Journal of Autoimmunity*. 2019; 102, 133–141.
- 4) Kullo IJ, [and 26 others, including **Jose S**]. The Return of Actionable Variants Empirical (RAVE) Study, a Mayo Clinic Genomic Medicine Implementation Study: Design and Initial Results. *Mayo Clinic Proceedings*. 2018; 93(11), 1600-1610.
- 5) Stremaska ME, **Jose S**, Sabapathy V, Huang L, Bajwa A, Kinsey GR, Sharma PR, Mohammad S, Rosin DL, Okusa MD, Sharma R. IL233, a Novel IL-2 and IL-33 Hybrid Cytokine, Ameliorates Renal Injury. *Journal of the American Society of Nephrology*. 2017; 28(9), 2681-2693.

Manuscripts submitted

- 6) **Jose S**, Bollinger J, Geller G, Greene J, Henry LM, Hutler B, Juengst ET, Kahn J, Mastroianni A, Mooney G, White A, Wilbanks R, Mathews D. Blurring Boundaries: A Proposed Research Agenda for Ethical, Legal, Social, and Historical Studies at the Intersection of Infectious and Genetic Disease. *Journal of Law, Medicine, and Ethics* (2023). Under review
- 7) **Jose S**, Geller G, Bollinger J, Mathews D, Kahn J, Garibaldi B. The Ethics of Using COVID-19 Host Genomic Information for Clinical and Public Health Decision-making during the Pandemic: A Survey of US Health Professionals. *Human Genetics and Genomics Advances* (2023). Dissertation paper, under review
- 8) Linder J, [and 35 others, including **Jose S**]. Prospective, multi-site study of healthcare utilization following actionable monogenic findings from clinical sequencing. *American Journal of Human Genetics* (2023). Under review

Manuscripts in progress

- 9) **Jose S**, Geller G, Bollinger J, Kahn J, Garibaldi B. US Health Professionals' Beliefs about Genetic Determinism and Biologization of Race and its Impact on their Perspectives on the Ethics of Using COVID-19 Host Genomic Information. *Dissertation paper, in progress*
- 10) **Jose S**. Analyzing the Ethical Acceptability of Implementing Population Host Genomic Screening Programs for Public Health Decision-making through a Public Health Ethics Lens. *Dissertation paper, in progress*
- 11) **Jose S**, Bollinger J, Geller G, Greene J, Henry LM, Hutler B, Juengst ET, Kahn J, Mastroianni A, Mooney G, White A, Wilbanks R, Mathews D. ELSI Points to Consider at the Intersection of Infectious and Genetic Diseases. *In progress*
- 12) **Jose S**, Bollinger J, Stuttgen-Finn K, McCague A, Carson KA, Terkowitz MS, Weston C, Mathews D. Communicating Information about Risk, Presymptomatic Testing, and Test Results: A Survey of Families at Risk for Huntington's Disease. *In progress*
- 13) Bollinger J, Stuttgen-Finn K, McCague A, Dvoskin R, Spritz B, **Jose S**, Brandt J, Mathews D. Families At-Risk: Long-term impacts of decisions about presymptomatic testing for Huntington's disease. *In progress*
- 14) Bollinger J, Glass S, **Jose S**, Sears C, Geller G. The Role of the Microbiome in Preventing and Treating Colorectal Cancer: Physician and Patient Perspectives on the Ethics of Emerging, but Uncertain Science. *In progress*

CONFERENCE PRESENTATIONS

- 1) **Jose S**, Geller G, Bollinger J, Mathews D, Kahn J, Garibaldi B. Do Beliefs About Biologization of Race and Genetic Determinism Influence Views about the Ethical Acceptability of Using COVID-19 Host Genomics Information? A Survey of U.S. Health Professionals. Abstract accepted for platform oral presentation at the *2023 American Society of Human Genetics (ASHG) Annual Meeting*, Washington, DC, November 2023. (speaker)
- 2) **Jose S**. Health professionals' beliefs in genetic determinism and their perspectives on the ethics of using COVID-19 host genomic information for decision-making during the pandemic. Abstract accepted for presentation at the *25th Annual Conference of the American Society for Bioethics and Humanities (ASBH)*, Baltimore, MD, October 2023. (speaker)
- 3) **Jose S**. Undergraduate oral and poster presentations in the humanities and social sciences. Moderated a session at *The Leadership Alliance National Symposium*, Hartford, CT, July 2023. (moderator)
- 4) Sugarman J, Bollinger J, Agostini J, Weinfurt K, Geller G, **Jose S**, Hannah M, Edwards OW, Henry LM, Sanchez T. The Impact of Disclosing to Patients that HIV Resistance Test Results are Used for HIV Molecular Surveillance. Poster presented at the *12th International AIDS Society (IAS) Conference on HIV Science*, Brisbane, Australia, July 2023. (poster)
- 5) **Jose S**. Public health ethics of using population-wide host genomic screening during an infectious disease outbreak. Presented at the *24th Annual ASBH Conference*, Portland, OR, October 2022. (speaker)
- 6) **Jose S**, Geller G, Bollinger J, Kahn J, Garibaldi B. Health Professionals' Perspectives on the Ethics of Using COVID-19 Host Genomic Information for Clinical and Public Health Decision-making during the Pandemic. Presented at the *5th ELSI Congress*, Virtual, June 2022. (speaker)

- 7) **Jose S**, Garibaldi B, Geller G. Should Genetic Testing of Patients and Clinicians Play a Role in the Management and Control of Infectious Disease Outbreaks? Presented at the *2021 National Emerging Special Pathogens Training and Education Center (NETEC) Summit*, Virtual, June 2021. (panelist and speaker)
- 8) **Jose S**, Geller G, Bollinger J, Kahn J, Garibaldi B. Health Professionals' Perspectives on the Ethics of Using COVID-19 Host Genomic Information for Clinical and Public Health Decision-making during the Pandemic. Lightning talk and poster presented at *the 2022 NHGRI Research Training and Career Development Annual Meeting*, Durham, NC, April 2022. (speaker and poster)
- 9) **Jose S**. Should Host Genomics Play a Role in the Management and Control of Infectious Disease Outbreaks? Presented at the *2021 Centers of Excellence in ELSI Research (CEER) Annual Meeting*, Virtual, May 2021. (speaker)
- 10) **Jose S**. Understanding Health Professionals' Perspectives on the Ethical Acceptability of Using Host Genomic Information During Infectious Disease Outbreaks. Poster presented at the *2021 NHGRI Research Training and Career Development Annual Meeting*, Virtual, April 2021. (speaker)
- 11) Bollinger J, **Jose S**, Stuttgart K, McCague A, Mathews DJ. Communicating Information about Risk, Testing, and Test Results in and through Family Members: A Survey of Families with Huntington's Disease. Presented at the *2020 Annual Meeting of the American Society of Human Genetics (ASHG)*, San Diego, CA (Virtual due to COVID-19), October 2020. (speaker)
- 12) **Jose S**. Issues of Privacy and Informed Consent in the Era of Government-Led DNA Profiling Programs. Presented at the *22nd Annual ASBH Conference, Baltimore, MD* (Virtual due to COVID-19), October 2020. (speaker)
- 13) **Jose S**, Dayal J, Wiley KL, Li R, eMERGE Network. Electronic Medical Records and Genomics (eMERGE): Using EMR-linked Biorepositories to Expand Genomic Medicine Research. Presented at the *27th Annual Meeting of the International Genetic Epidemiology Society*, San Diego, CA, October 2018. (speaker and poster)
- 14) **Jose S**, Fletcher C. Impact Analyses for the International Mouse Phenotyping Consortium (IMPC). Presented at the *1st Annual INFRAFRONTIER / IMPC Stakeholder Meeting: Advancing Personalized Medicine with Animal Models*, Athens, Greece, November 2017. (speaker)
- 15) **Jose S**, Lu Y, Lenzi R, Singh B, Mirochnitchenko O, Moore M, Fletcher C. Assessing the impact of the Knockout Mouse Phenotyping Program (KOMP2) on the Biomedical Research Enterprise. Poster presented at the *Sex As A Biological Variable (SABV) Workshop*, Bethesda, MD, October 2017. (poster)
- 16) **Jose S**, Lu Y, Lenzi R, Chang C, Lenzi R, Mirochnitchenko O, Fletcher C. Assessing the impact of the Knockout Mouse Phenotyping Program (KOMP2) on the Biomedical Research Enterprise. Poster presented at the *2017 National Human Genome Research Institute Symposium*, Bethesda, MD, October 2017. (poster)
- 17) **Jose S**, Lu Y, Lenzi R, Singh B, Mirochnitchenko O, Moore M, Fletcher C. Assessing the impact of the Knockout Mouse Phenotyping Program (KOMP2) on the Biomedical Research Enterprise. Poster presented at the *NIH Office of Portfolio Analysis Symposium*, Bethesda, MD, March 2017. (poster)

- 18) **Jose S**, Wiley KL, Gupta J, Li R. Electronic Medical Records and Genomics (eMERGE): Using EMR-linked Biorepositories to Expand Genomic Medicine Research. Poster presented at the *2016 National Human Genome Research Institute Symposium*, Bethesda, MD, October 2016. (poster)
- 19) **Jose S**, Stremaska ME, Sharma R. Mechanisms by which Helminths Infection Play a Role in Decreasing an Organism's Susceptibility to Autoimmunity. Poster presented at *Undergraduate Excellence Research Symposium*, Charlottesville, VA, April 2015. (poster)

TEACHING EXPERIENCE

2020-2023 Graduate Teaching Assistantships, Johns Hopkins University

Urban Policy (MS/MPH/PhD), Dr. Sandra Newman

Introduction to Bioethics in Public Health Practice and Research (MPH), Dr. Nancy Kass and Dr. Jeffrey Kahn

Bioethics and the Law (MBE/PhD), Prof. Anna Mastroianni and Dr. Brian Hutler

Germs, Genes, Patients, and Populations (MBE), Dr. Gail Geller

Social Policy for Vulnerable Populations in the U.S. (MS/MPH/PhD), Dr. Beth McGinty

Public Health Policy (MPH), Dr. Joshua Sharfstein

Health Advocacy (MS/MPH/PhD), Dr. Joshua Horwitz

2019 Guest Lecturer, Johns Hopkins University

Personalized Medicine for the CNS Issues (Undergraduate), Dr. Emily Baxi

ACADEMIC SERVICE & PROFESSIONAL MEMBERSHIPS

2023-2024 Bioethicist, Taskforce on the Use of Countermeasures During a High Consequence Pathogen Event, Johns Hopkins University

2021-2026 Bioethicist, Teaching the Genome Generation Program External Advisory Board, The Jackson Laboratory

2020-2023 Mentor & Speaker, Genomics & Society Mentorship Program, Berman Institute of Bioethics

2021-2023 Member, Inclusion, Diversity, Anti-Racism, and Equity Committee, Berman Institute of Bioethics

2021-2023 Member, ELSI Friday Forum Organizing Committee and ELSI TraineeHub Planning Committee, Center for ELSI Resources and Analysis

2020-2022 PhD Student Representative, Bioethics PhD Program Committee, Johns Hopkins Bloomberg School of Public Health

2020-2023 Member, American Society of Bioethics and Humanities

2020-2021 Treasurer, Student Coordinating Committee, Johns Hopkins Bloomberg School of Public Health

2020-2021 Member, American Society of Human Genetics

SKILLS

Computer/Statistical Programs

STATA, Microsoft Excel, PowerPoint, Word, EndNote, IN-SPIRE, FlowJo, NIH Query, View, Report (QVR)

Survey Platforms

Qualtrics^{XM}

Languages

English (native), Malayalam (native), French (basic)