Columbia University Irving Medical Center Division of Infectious Diseases 622 West 168th Street, PH9-901 New York, NY 10032

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Research Overview

Building on a decade and a half of experience in clinical and public health informatics, my research focuses especially on responsible, human-centered artificial intelligence (AI) and the development of systematic, scalable, data-driven approaches to improve human health and well-being. My work usually examines and applies methods such as machine learning, natural language processing, and spatio-temporal analysis in addition to traditional biostatistics and epidemiology. I am particularly interested in using and interrogating multimodal data sources and the vast toolbox that computational learning offers to better understand, improve, and facilitate the study of health in populations and communities. Generally, my research can be grouped into four primary domains: (i) ethical considerations in AI, clinical practice, and digital health; (ii) improving health data capture and curation of new knowledge bases; (iii) elucidating heterogeneity in health outcomes and developing tools to facilitate further discovery; and (iv) enabling learning health systems, precision medicine, and precision public health.

Education

• Columbia University in the City of New York, New York, NY

Doctor of Philosophy in Biomedical Informatics, conferred February 2025

Dissertation: Leveraging Computational Methods to Advance Health Equity Science Through

Evidence Synthesis, Strategic Monitoring, and Precision Public Health

Master of Philosophy in Biomedical Informatics, 2023

Master of Arts in Biomedical Informatics, 2021 (GPA: 4.0)

Dissertation Committee: Noémie Elhadad (doctoral advisor), Suzanne Bakken, Karthik Natarajan,

Jason Zucker, Li Zhou (Harvard Medical School)

Coursework included: Machine Learning for Healthcare, Symbolic AI in Healthcare, Data Science, Natural Language Processing, Computer Applications in Health Care, Intelligent Decision Systems

- Beijing Language and Culture University, Beijing, China *Visiting Student*, Intensive Mandarin, 2019
- Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
 Master of Applied Science in Spatial Analysis for Public Health, 2019
 Coursework included: Biostatistics, Spatial Statistics, Epidemiology, Spatial Data Technologies
- Harvard T.H. Chan School of Public Health, Boston, MA
 Special Student, International and Population Health, 2009-2011
 Coursework included: Immunology, Tuberculosis, Reproductive Health Issues, Survey Research Methods, Planning and Evaluation of Health Programs, Financing Health Care in Developing Countries
- Yale University, New Haven, CT

Bachelor of Arts in Sociology and History, 2005

Coursework included: Elements of Computing, Current Issues in Biological Sciences, General Chemistry, Social Policy Analysis, Portuguese for Spanish Speakers, Elementary Yoruba

Postgraduate Training

04/2025- present	Postdoctoral Research Scientist	Medicine Infectious Diseases	Columbia University Irving Medical Center, New York, NY
09/2022- 08/2024	National Library of Medicine/ National Institute of Allergy and Infectious Diseases T15 Predoctoral Research Training Fellow	Biomedical Informatics	Columbia University Irving Medical Center, New York, NY
09/2019- 08/2022	National Library of Medicine T ₁₅ Predoctoral Research Training Fellow	Biomedical Informatics	Columbia University Irving Medical Center, New York, NY
08/2013- 10/2023	Visiting Postgraduate Research Fellow	Medicine	Harvard Medical School, Boston, MA
08/2013- 08/2019	Predoctoral Research Fellow	General Medicine and Primary Care	Brigham and Women's Hospital (BWH), Boston, MA

Other Professional Positions

2025	Staff Associate	Department of Biomedical Informatics,
		Columbia University Irving Medical Center
2012-2019	Research Manager	Division of General Internal Medicine and
		Primary Care, BWH
2010-2012	Data Quality Assurance	Harvard University/U.S. President's
	Manager	Emergency Plan for AIDS Relief (PEPFAR)
2008-2010	Data, Training, and Education	Harvard University/U.S. President's
	Coordinator	Emergency Plan for AIDS Relief (PEPFAR)
2007-2008	Research Assistant	Division of General Internal Medicine and
		Primary Care, BWH
2006-2007	Emergency Medical Technician	Tufts Emergency Medical Services
2005-2006	Teacher, English-as-a-Second-	New York City Board of Education/New
	Language	York City Teaching Fellows
2004-2005	Client Outreach Officer	Advanced Strategies for Healthcare Access
2004	Research Assistant	Department of Sociology, Yale University
2003-2004	Editorial Assistant/Contributor	Yale Medicine Magazine
2003	Paralegal	Raymond B. Schwartzberg & Associates
2001-2002	Client Advocate	Student Health Outreach (SHOut)
2000-2001	Program Assistant	Yale International Affairs Council

Major Administrative Leadership Positions

Local

2012-2019	Network Manager, Brigham and Women's Primary Care Practice-Based Research Network	Brigham Health
National		
2024-2025	Planning Committee Member, New England	Biomedical Science Careers
	Science Symposium	Program
2024	Co-organizer, Using Artificial Intelligence to	National Science Foundation/
	Better Understand Menopause Workshop	National Institutes of Health
2018	Co-organizer, Queer Health Hackathon	Tegan and Sara Foundation

International

Co-organizer/Author Mentorship Program
Sub-Chair, Machine Learning for Health
(ML4H) Symposium

Association for Health
Learning and Inference (AHLI)

Committee Service

2025-present	AI at VP&S Governance and Oversight Working Group	Columbia University
	2025-present	Member
2025-present	AI at VP&S Community Working Group 2025–present	Columbia University Member
2021–2023	Department of Biomedical Informatics Diversity, Equity, and Inclusion Working Group	Columbia University
	2021–2023	Founding Member
2021-2022	Toward Diversity, Equity, and Inclusion in Informatics, Health Care, and Society Seminar Series & Planning Committee	Columbia University
	2021–2022	Founding Member
2020–2022	Biomedical Informatics Departmental Seminar Series Planning Committee	Columbia University
	2020–2022	Member
2019–2021	Electronic Health Record Phenotyping Working Group	Columbia University
	2019–2021	Member
2015–2018	Sexual Orientation and Gender Identity Working Group	Partners Healthcare
	2015–2018	Founding Member
2015–2016	Equity and Diversity Council 2015–2016 2015–2016	Brigham Health Founding Member Co-Chair, Data Working Group
2013–2015	Partners eCare Research Working Group 2013–2015	Partners Healthcare Member
2013–2015	Partners eCare Sexual Orientation and Gender Identity Working Group	Partners Healthcare
	2013–2015	Founding Member
2013-2014	Partners Human Research Committee, Insight Usability Working Group	Partners Healthcare
	2013–2014	Member
2013-2014	Partners Enterprise Research Portal Working Group	Partners Healthcare
	2013–2014	Member

2011–2019 LGBTQ and Allies Employee Resource Group Brigham Health

2014–2016 Co-Chair

2011–2019 Member

2007–2008 Association of Multicultural Members of Partners Healthcare

Partners Healthcare

2007–2008 Member

2007–2008 Vice-Chair, BWH Chapter

Professional Societies

2023-present Society for the Advancement of

Chicanos/Hispanics and Native Americans

in Science (SACNAS)

2022–present Association for Computational Linguistics (ACL)
2022–present Association for the Advancement of Artificial

Intelligence (AAAI)

2022–present Machine Learning for Healthcare (MLHC)

2022, 2023 Submission Reviewer, Annual

Meeting

2020-present Latinx in AI

2019–present Observational Health Data Science and Informatics

(OHDSI) Collaborative

2024–present Co-lead, Early-Stage Researchers

Workgroup

2019–present New York Academy of Sciences

2017–present Association for Computing Machinery (ACM)

2014–present American Medical Informatics Association (AMIA)

2014–present Abstract Reviewer, Annual

Symposium

2012–2014 American Public Health Association (APHA)

2012–2014 AcademyHealth

2008–present Biomedical Science Careers Program (BSCP)

2023–present Member, Educational Relief Fund

Review Committee

Editorial Activities

Ad hoc Reviewer

American Psychologist Journal of Medical Internet Research

Annals of Internal Medicine Journal of the American Medical Informatics Association

Applied Clinical Informatics Journal of the International AIDS Society

Clinical Infectious Disease Medical Care

Health Informatics Journal Natural Language Processing
Health Services Research Open Forum Infectious Diseases

JAMA Network Open The Joint Commission Journal on Quality and Patient Safety

JAMIA Open The Journal of Infectious Diseases

Journal of Biomedical Informatics Transactions of the Royal Society of Tropical Medicine & Hygiene Journal of General Internal Medicine

Other Editorial Roles

2021–2023 Journal of the American Medical Informatics Association (JAMIA)

2022–2023, JAMIA Journal Club Manager 2021–2023, Student Editorial Board Member

Honors and Prizes

2024–2025	Alnet Fellow for Safety and Security in Artificial Intelligence	Deutscher Akademischer Austauschdienst (DAAD) German Academic Exchange Service, Federal Ministry of Education and Research	Research
2022–2024	T15 Predoctoral Research Training Fellowship	National Library of Medicine/ National Institute of Allergy and Infectious Diseases	
2021–2025	Computational and Data Science Fellowship	Association for Computing Machinery (ACM) Special Interest Group in High Performance Computing (SIGHPC)	Academic
2021-2023	Hope Scholarship	Biomedical Science Careers Program	
2021-2022	HSF Scholarship	Hispanic Scholarship Fund (HSF)	
2019–2022	T15 Predoctoral Research Training Fellowship	National Library of Medicine	
2019-2020	Dean's Fellowship	Columbia University Vagelos College of Physicians and Surgeons	Academic
2018	Ford Foundation Predoctoral Fellowship, Honorable Mention	National Academies of Sciences, Engineering, and Medicine	Academic
2018	Partners in Excellence Award for Leadership and Innovation	Partners HealthCare	
2018	Ruth and William Silen MD Award, Third Prize	New England Science Symposium	Research
2017	The Open Gate Travel Grant	Harvard Gender & Sexuality Caucus	Research
2016-2018	Merit Scholarship	Johns Hopkins Bloomberg School of Public Health	
2016	LGBTQ Leadership Award	Brigham Health	
2015	Brigham Way honoree	Brigham and Women's Hospital	Leadership
2015	Travel Scholarship	North American Primary Care Research Group	
2014	Partners in Excellence Award for Quality Treatment and Service	Partners HealthCare	
2014	Outstanding Quality & Patient Safety Oral Presentation	Society of General Internal Medicine	Research
2012	Partners in Excellence Award for Leadership and Innovation	Partners HealthCare	
2004	Mellon Forum Undergraduate Thesis Research Award	Yale University	
2002	Y50K Business Plan Competition, Non-Profit Category, Second Place	Yale Entrepreneurship Society	

Report of Funded Projects

Funding Information

Current

2025-2026

Symposium on Responsible Artificial Intelligence and Informatics for the Prevention and Control of Sexually Transmitted Infections

Small Project Assistance Award

American Sexually Transmitted Diseases Association

Principal Investigator

Aim: To convene AI researchers, clinicians, epidemiologists, public health specialists, bioethicists, and trainees for a one-day symposium at Columbia University Irving Medical Center to explore emerging responsible AI and informatics applications in diagnosis, surveillance, treatment, and prevention of sexually transmitted infections.

2025-2026 Spatiotemporal Mental Health-related Investigations to Foster Thriving among LGBTQ+, Black, and/or Latinx Youth in the United States (SHIFTS)

Early Career Research Grant

Hopelab

Co-Principal Investigator

Aim: To conduct population-level examinations of mental health outcomes and their associated factors in American LGBTQ+ and/or racially minoritized youth across 2018, 2021, and 2024 Hopelab National Surveys.

Development and Evaluation of an Informatics-Based Approach to Reducing Disparities in Kidney Transplant Evaluation Completion in a Learning Health System

Learning Health System and Health Justice Research and Training Award

EQUIP Center for Learning Health Systems/Dalio Center for Health Justice

Co-Investigator (PI: H. Fernandez)

Aim: To identify patients at high risk for delayed kidney pre-transplant clinical evaluation using machine learning, target them for enhanced monitoring and engagement, and provide direct support to mitigate roadblocks contributing to delays.

Past

2023-2024

Clinical and Translational Science Award

National Center for Advancing Translational Sciences (NCATS) 3UL1TR001873-08S1 Graduate Research Student (PI: Reilly)

Aim: To investigate justice, equity, diversity and inclusion (JEDI) in ethical frameworks applied to research on artificial intelligence in digital health and create educational case studies for identifying ethical issues related to JEDI and discussing potential approaches to integrate JEDI goals.

2018-2019

A Multicenter Randomized Controlled Trial of Pharmacist-Directed Transitional Care to Reduce Post-Hospitalization Utilization

National Institute on Aging (NIA) Ro1 AG 058911-01

Project Manager (Site PI: Schnipper)

Aim: To measure the impact of pharmacist-led discharge (PHARM-DC) interventions on post-discharge utilization within 30 days and identify patient sub-populations most likely to benefit from PHARM-DC.

Novel electronic health record phenotyping of LGBTQ intersectional identities and associated health disparities using natural language processing and machine learning Harvard Catalyst

Co-Investigator (PI: Zhou)

Aim: To develop methods using machine learning and natural language processing to identify sexual and gender minority (SGM) populations from electronic health records and characterize potential healthcare disparities associated with different segments of SGM populations.

2016–2018 Electronic Medication Adherence Reporting and Feedback During Care Transitions (Smart Pillbox)

Agency for Healthcare Research and Quality (AHRQ) R21 HS 024587-01 Project Manager/Statistical Programmer (PI: Schnipper)

Aim: To implement a smart pillbox intervention for patients discharged from the hospital to the community and to evaluate the effects of the intervention on post-discharge medication discrepancies, medication adherence, and chronic disease management.

2015–2018 Implementation of a Medication Reconciliation Protocol to Improve Patient Safety Agency for Healthcare Research and Quality (AHRQ) R18 HS 023757-01A1 Project Manager/Statistical Programmer (PI: Schnipper)

Aim: To widely disseminate, implement, and evaluate sustainable medication

Aim: To widely disseminate, implement, and evaluate sustainable medication reconciliation interventions that improve patient safety during care transitions.

2015–2017 Clinician-Patient Relationships: Boundaries, Barriers, Breakdowns

Gold Foundation/Lucian Leape Family Foundation

Project Director (PI: Schiff)

Aim: To examine physician attitudes and practices related to caring acts that have been questioned as "inappropriate" or "unethical" crossing of professional boundaries.

2014–2016 Understanding and Preventing Diagnostic Pitfalls

Risk Management Foundations of the Harvard Medical Institutions (CRICO)

Project Director (PI: Schiff)

Aim: To identify leading diagnostic pitfalls that pose safety and malpractice risks, then design and test the accuracy of electronic screens for these pitfalls in the electronic health record.

2014–2016 Evaluating Variation in Overactive Bladder Medication Use and Other Treatments Astellas Pharma US, Inc.

Statistical Programmer (PI: Loughlin)

Aim: To develop an electronic phenotype for overactive bladder, then characterize overactive bladder treatment, medication adherence, and outcomes.

2014–2015 Are Physicians and Patients Adhering to the Published Guidelines for Fasting during Ramadan?

Martin P. Solomon Award for Primary Care Scholarship, BWH

Co-Investigator (PI: Ali)

Aim: To measure differences in rates of health care utilization for Muslim patients just prior to, during, and after Ramadan.

First Annual BWH DGIM Research Day

BRI/ORC Microgrant Pilot Program

Principal Investigator

Aim: To develop a BWH Division of General Internal Medicine and Primary Care retreat to showcase contributions of research assistants and promote their career development.

2013–2015 Patient Outcomes Associated with Year-End Departure of Resident Primary Care Physicians

Support for Excellence in Educational Development (SEED) Grant, BWH

Co-Investigator (PI: Solomon)

Aim: To investigate whether acute care utilization is increased disproportionately among patients of graduating resident physicians compared to non-graduating residents.

2013–2014 Acute Respiratory Infection Telephone Management Service

Brigham and Women's Physicians Organization Care Redesign Incubator and Startup

Program – Round 1 and Round 2

Data Manager (PI: Linder)

Aim: To develop, implement, and evaluate an acute respiratory infection telephone management service at one of the Brigham and Women's Primary Care Practices.

2012–2014 Use of Behavioral Economics to Improve Treatment of Acute Respiratory Infections National Institutes of Health/University of Southern California 1RC4AG039115-01

Data Manager/Statistical Programmer (Site PI: Linder)

Aim: To evaluate the use of behavioral economic concepts such as enhanced defaults, alternative options, and social norms to reduce inappropriate antibiotic prescribing for acute respiratory infections.

2012–2014 Medical Malpractice and Patient Safety Protocol (PROMISES)

Agency for Healthcare Research and Quality (AHRQ) 1R18HS019508-01

Project Manager (PI: Schiff)

Aim: To test the impact of quality improvement techniques to improve 3 high risk ambulatory malpractice areas: 1) medication management, 2) test ordering and results management 3) follow-up and referral management.

2010–2012 President's Emergency Plan for AIDS Relief (PEPFAR)

Health Resources and Services Administration (HRSA) U51HA02522

Data Quality Assurance Manager (PI: Kanki)

A \$362 million grant to train health care workers, develop monitoring and evaluation systems, strengthen health care infrastructures, and collaborate with local hospitals and clinics in Nigeria, Botswana, and Tanzania that provide treatment for people living with HIV/AIDS.

2008–2010 President's Emergency Plan for AIDS Relief (PEPFAR)

Health Resources and Services Administration (HRSA) U51HA02522

Data, Training, and Education Coordinator (PI: Kanki)

A \$362 million grant to train health care workers, develop monitoring and evaluation systems, strengthen health care infrastructures, and collaborate with local hospitals and clinics in Nigeria, Botswana, and Tanzania that provide treatment for people living with HIV/AIDS.

2007-2008 Pharmacist Intervention to Decrease Medication Errors in Heart Disease Patients

National Heart, Lung, and Blood Institute (NHLBI), Ro1HL089755

Research Assistant (Site PI: Schnipper)

Aim: To evaluate a literacy-focused program that provides pharmacist-led educational assistance at the time of hospital discharge to patients with heart disease.

2007 Influenza in the Partners Primary Care Practice-Based Research Network

Roche Laboratories, RLI 06001207

Research Assistant (PI: Linder)

Aim: To measure and evaluate the appropriateness of antiviral and antibiotic prescribing for patients being treated for influenza in primary care clinics.

Report of Local Teaching and Training

Teaching of Students in Courses

2022	BINF G4008 Interrogating Ethics and Justice in Digital Health Teaching Assistant Master's and PhD students	Columbia University Graduate School of Arts and Sciences 2-hr sessions per week for 13 weeks
2021, 2022	INTC M7210 Mechanisms and Practice Preceptor in Clinical Informatics 2nd year medical students	Columbia Vagelos College of Physicians and Surgeons Two 2-hr sessions per week for 2 weeks
2020	BINF G4011 Acculturation to Medicine & Clinical Informatics Teaching Assistant Master's and PhD students	Columbia University Graduate School of Arts and Sciences 2-hr sessions per week for 13 weeks
2016, 2017	HPM 299 Research with Large Databases Teaching Fellow Master's and PhD students	Harvard T.H. Chan School of Public Health Five 1.5-hr sessions per week for 3 weeks

Mentored Trainees

2024 Kemka Ihemelandu, Summer Program for Undergraduate Rising Stars (SPURS)
Research Assistant, Columbia University (Undergraduate at Georgetown University)

Local Invited Presentations

No presentations below were sponsored by 3rd parties/outside entities.

- Foundation Models Across Scales: From Cells to Health Systems / Workshop Moderator AI at Vagelos College of Physicians and Surgeons (AI@VP&S) Initiative, New York, NY
- The Promise and Perils of Artificial Intelligence for Health Equity / Invited Presentation Artificial Intelligence Summer Course, Columbia University Double Discovery Program.
- Elucidating Health Inequities and Research Gaps in HIV and Other Sexually Transmitted Infections Using Data Mining and a Large Language Model: A Computational Scoping Review / Invited Presentation
 HIV Prevention Research Working Group, NYPH, New York, NY.
- Development and Validation of Multimodal Deep Learning Models to Identify Human Monkeypox in the Electronic Health Record / Invited Presentation HIV Prevention Research Working Group, NYPH, New York, NY.
- Health Information Exchange Enables Enhanced STI Surveillance Using Electronic Health Record Data / Invited Presentation HIV Prevention Research Working Group, NYPH, New York, NY.
- Enabling a Learning Public Health System: Enhanced Surveillance of Sexually Transmitted Infections / Invited Presentation
 Division of Infectious Diseases, NewYork-Presbyterian Hospital (NYPH), New York, NY.

2022	Mining the Health Disparities and Minority Health Bibliome / Invited Presentation		
	Biomedical Informatics Seminar Series, Department of Biomedical Informatics, Columbia		
	University		

- 2019 LGBTQ Health Diversity, Culture, and Inclusion Series / Invited Presentation Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital
- Documentation of Sexual Orientation and Gender Identity in the Electronic Health Record / Invited Presentation
 Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital
- 2017 Improving and Leveraging Sexual Orientation and Gender Identity Demographics in Epic / Invited Presentation Sexual Orientation and Gender Identity Working Group, Partners HealthCare
- 2017 Algorithmic Bias and Health Disparities / Invited Presentation Machine Learning Working Group, Partners HealthCare
- The LGBTQ Data Collection Gap: Sexual Orientation and Gender Identity in the EHR / Invited Presentation

 LGBTQ and Allies Employee Resource Group, Brigham Health
- Designing and Building Clinical Research Databases / Invited Presentation
 Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital
- SQL-based Data Management and Manipulation / Invited Presentation
 Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital
- 2013 How Busy Clinicians Can Improve Care and Pursue Scholarship / Invited Workshop Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital

Report of Regional, National, and International Invited Teaching and Presentations

No presentations below were sponsored by 3rd parties/outside entities.

Regional

- 2023 Getting into Graduate School and Succeeding/ Invited Panelist New England Science Symposium, Biomedical Science Careers Program Boston, MA
- Mining the Health Disparities and Minority Health Bibliome / Invited Presentation Biomedical Informatics Colloquium, New York City College of Technology (City Tech) New York, NY
- 2018 High physician and clinic-level variation in documentation of sexual orientation and gender identity in the electronic health record / Plenary Session New England Science Symposium Boston, MA

Received the Ruth and William Silen Award, Third Prize

2016 Identifying and Understanding Malpractice-Prone Diagnostic Pitfalls / Invited Presentation Risk Management Foundation of the Harvard Medical Institutions Incorporated (RMF) CRICO Research Day Boston, MA

National

Enabling a Learning Public Health System: Enhanced Surveillance of Sexually Transmitted Infections (Selected Oral Abstract)

American Medical Informatics Association Annual Symposium

New Orleans, LA

2023 Challenges, Opportunities, and Considerations: Promoting Inclusive Research in the Era of Big Data / Invited Presentation and Panelist

American Medical Informatics Association Annual Symposium

New Orleans, LA

2022 Mining the Health Disparities and Minority Health Bibliome: A Computational Scoping Review (Selected Oral Abstract)

American Medical Informatics Association Annual Symposium

Washington, DC

Spotlighted by AMIA for "demonstrating best practices in promoting diversity, equity, and inclusion through scholarly communications in biomedical informatics."

Differential Presentation and Delays in Treatment for Acute Myocardial Infarction Associated with Sex, Race, Ethnicity (Selected Oral Abstract)

American Medical Informatics Association Annual Symposium San Diego, CA

2015 Advocacy and Implementation: Gathering SOGI Demographics in the Clinical Setting (Selected Oral Abstract)

Gay and Lesbian Medical Association Annual Conference

Portland, OR

2014 Comparing Clinicians' Perception of Their Own and Their Peers' Antibiotic Prescribing to Actual Antibiotic Prescribing for Acute Respiratory Infections in Primary Care (Selected Oral Abstract)

Society of General Internal Medicine Annual Meeting

San Diego, CA

Received the Outstanding Quality and Patient Safety Oral Presentation Award

International

Health Information Exchange Enables Enhanced STI Surveillance Using Electronic Health Record Data (Selected Oral Abstract)
STI & HIV 2023 World Congress

Chicago, IL, USA

2015	Gathering Sexual Orientation and Gender Identity Demographics in the Clinical Setting / Selected Workshop North American Primary Care Research Group Practice-Based Research Network Conference Bethesda, MD, USA
2014	PBRN Organization and Governance to Promote Practice, Clinician, Researcher, and Patient Engagement / Selected Workshop North American Primary Care Research Group Practice-Based Research Network Conference Bethesda, MD, USA
2011	Programming: Creating a Utility and Basics of Scripting/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Programming and Trouble-shooting Databases/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Cohort Analyses II: Using EHR Data/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Cohort Analyses I: Using EHR Data/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Monitoring data and Trouble-shooting/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Introduction to Data Management/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Critical Elements in Database Cleaning, a Checklist/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2011	Basics of Programming and Scripting/ Invited Seminar AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria
2009	Improving Understanding and Medication Adherence/ Invited Plenary Presentation HIV Training, AIDS Prevention Initiative Nigeria Plus (APIN Plus) Abuja, Nigeria

Report of Clinical Activities and Innovations

Past and Current Licensure and Board Certification

2006 Certification, New York State Emergency Medical Technician (EMT-D)

Report of Teaching and Education Innovations

Creation of a JEDI-AI Case Study Series (2023-2024) Co-developed educational case studies focused on justice, ethics, diversity, and inclusion (JEDI) in the development and use of artificial intelligence (AI) approaches in digital health.

Report of Technological and Other Scientific Innovations

HDMH Monitor (2022)

HDMH Monitor is an online article repository and interactive dashboard that leverages natural language processing and machine learning methods to support scientific discovery via automated archive, search, information synthesis, and data visualization of articles concerning health disparities and minority health (HDMH). https://hdmhmonitor.dbmi.columbia.edu/

C-REACT: Contextualized Race and Ethnicity Annotations for Clinical Text (2022) As a member of the Elhadad lab, my colleagues and I curated the C-REACT dataset, a large publicly-available corpus of sentences from clinical notes manually annotated for information related to race and ethnicity (RE) This corpus contains two sets of gold-standard annotations for RE data. The first set contains granular RE-information such as patient country of origin. The second set of annotations contains RE labels manually assigned by clinicians. https://physionet.org/content/race-ethnicity-clinical-text/

Health Equity Research Assessment (HERA) (2021) As a member of the Elhadad lab, I supported the Health Equity Research Assessment (HERA), a large-scale characterization conducted across Observational Health Data Science Informatics (OHDSI) sites with heterogeneous populations and insurance coverage, allowing for identification of persistent and generalizable trends in diagnosis differences. The HERA dashboard and visualizations can be used to download study data, further investigate health differences, and generate novel hypotheses. https://data.ohdsi.org/HERACharacterization/

CovidWatcher

(2020)

As part of a department-wide effort, my colleagues and I developed CovidWatcher, an app and online portal that surveyed users about COVID-19 exposure, symptoms, access to medical care, and impact on daily life. Data collected was used to track spread of COVID-19, giving citizens real-time information about hot spots and enabling health care officials to deploy resources where needed. https://www.dbmi.columbia.edu/covidwatcher/

EHR pediatric quality improvement tool (2011)

Co-developed and evaluated a utility to extract information from data warehouse and generate measures based on 23 pediatric quality of care indicators at 33 Harvard PEPFAR sites in Nigeria. Programmed module to review continuity of care, drug therapy initiation, medication adherence, loss to follow-up, laboratory monitoring, disease screening based on clinical symptoms assessment or diagnostic evaluation, treatment failure, toxicity management, nutritional assessment, and treatment response.

EHR data quality assessment tool, version 2.0 (2011)

Instituted major modifications to and evaluated a pre-existing EHR utility to incorporate expanded data quality indicators at 33 Harvard PEPFAR sites in Nigeria. With this utility, central and sitelevel data managers are able to better monitor and improve data completeness, validity, accuracy, and currency.

Electronic health record (EHR) adult quality improvement tool (2010)

Co-developed and evaluated a utility to extract information from data warehouse and generate measures based on 15 adult quality of care indicators at 33 Harvard PEPFAR sites in Nigeria. Module reviews continuity of care, drug therapy initiation, loss to follow-up, laboratory monitoring, disease screening based on clinical symptoms assessment, treatment failure, and treatment response.

Report of Education of Patients and Service to the Community

Activities

2020-present De La Salle Academy/Proctor

Proctor annual entrance exam for only private, independent middle school in New York City for academically talented students from economically less advantaged families.

High School Scholars Program, American Medical Informatics Association/Mentor Supported high school students with research projects; reviewed their work and helped them practice scientific presentations; offered career advice and encouragement.

Human Rights Commission, City of Cambridge/Commissioner, Vice Chair Adjudicated complaints of discrimination occurring in Cambridge, MA related to housing, employment, education, and public accommodation. Lobbied the state legislature on important policies such as pay equity, protections relative to domestic violence, and anti-discrimination legislation for sexual and gender minorities. Facilitated conciliations among parties. Conducted information sessions on civil rights.

Timmy Global Health, Dominican Republic/Medical Relief Volunteer
Helped establish temporary medical clinics along Haiti-Dominican Republic border;
triaged patients, managed pharmacy, translated proper drug use and application.

2006-2016 Boston Medical Reserve Corps/Emergency Medical Technician
The Boston Medical Reserve Corps is a group of volunteers who are ready to respond
should there be a public health emergency in Boston.

2001-2005 Latino Youth Enrichment Team (LYET), New Haven, CT/Co-Director
Managed community center mentorship program and developed instructional methods
for Latino youth ranging in age from 6 through 13.

Educational Material for Patients and the Lay Community

Books, monographs, articles and presentations in other media

2012	Harvard School of Public Health/AIDS Prevention Initiative in Nigeria: Reducing the Burden of AIDS U.S. President's Emergency Plan for AIDS Relief	Co-author	Harvard PEPFAR Nigeria Program Report
2012	Harvard School of Public Health/Management and Development for Health: Reducing the Burden of AIDS in Tanzania U.S. President's Emergency Plan for AIDS Relief	Co-author	Harvard PEPFAR Tanzania Program Report
2012	Botswana-Harvard AIDS Institute Partnership: Reducing the Burden of AIDS U.S. President's Emergency Plan for AIDS Relief	Co-author	Harvard PEPFAR Botswana Program Report

Recognition

2019	Featured in article "On the Margins" about research using natural language processing to study LGBTQ health	Harvard Medicine Magazine
2019	Interviewed for "Machine Learning and Health Equity" episode to discuss leveraging AI in health equity research	ThinkResearch Podcast
2015	Publicity for successful advocacy leading to routine collection of sexual orientation and gender identity demographics in the Mass General Brigham (formerly Partners Healthcare) EHR	Boston Magazine

Report of Scholarship

Peer reviewed publications in print or other media

Research Investigations

1. Ketenci M, Jeanselme V, Reyes Nieva H, Joshi S, Elhadad N. ADHAM: Additive Deep Hazard Analysis Mixtures for Interpretable Survival Regression. *Machine Learning for Healthcare* (MLHC); 15 Aug 2025. https://www.mlforhc.org/s/207_camera_ready-Mert.pdf.

2. Reyes Nieva H, Zucker J, Tucker EG, Castor D, Yin M, Gordon P, Elhadad N. Enhanced Surveillance of Sexually Transmitted Infections to Foster a Learning Public Health System. *JAMA Netw Open.* 2025 Jun 2;8(6):e2514308. PMID: 40526386. doi:10.1001/jamanetworkopen.2025.14308.

- 3. Reyes Nieva H, Zucker J, Tucker EG, McLean J, DeLaurentis C, Gunaratne S, Elhadad N. Development of Machine Learning-Based Mpox Surveillance Models in a Learning Health System. Sexually Transmitted Infections. Published Online First: 02 May 2025. doi:10.1136/sextrans-2024-056382.
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