Adrienne Pichon, MPH

Curriculum Vitae
September 2023

Personal Data

Place of Birth: New Orleans, LA
Citizenship: United States of America
Previous Last Name: Ball

Contact Information

New York, NY 10031
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Education

September 2019–Present	Doctor of Philosophy (PhD), Candidate Columbia University Department of Biomedical Informatics: New York NY *Dissertation Title*: Supporting the Work of Patients and Providers in Complex Chronic Illness *Advisor*: Noémie Elhadad
September 2013–May 2015	Master of Public Health (MPH) Columbia University Mailman School of Public Health: New York NY *Department:* Sociomedical Sciences (SMS) *Certificate:* Sexuality, Sexual, & Reproductive Health (SSRH) *Thesis Title:* Sexuality Formation and Sexual Practices in Vietnam: A Nationally Representative Study *Thesis Advisor:* Dr. Theo Sandfort
August 2009–May 2013	Bachelor of Science in Education (BSEd), Exercise Physiology University of Miami: Coral Gables FL *Minors:* Chemistry, International Studies
August 2011–December 2011	Semester at Sea, Institute for Shipboard Education (ISE) University of Virginia (UVA): Charlottesville VA

Methods & Technical Skills

Statistical programming (R, STATA) | Statistical analysis | Data management & analysis (STATA, R, Python, SQL, Dedoose) | C++, JavaScript, D3, jQuery, Perl, HTML | Database design and management (MS Access) | Survey design (Qualtrics, REDCap, Lighthouse Studios-CAPI) | Qualitative research methods (interviews, focus groups, usability) | Quantitative research methods (surveys, texts, blood serum, self-tracking, fitness, smart technology, app logs, metadata) | Data visualization | Consumer/clinical informatics app development & evaluation | User-centered & participatory design | Citizen Science

Peer-Reviewed Publications

1. Bear Don't Walk OJ, **Pichon A**, Reyes Nieva H, Sun T, Altosaar J, Karthik Natarajan, Perotte A, Tarczy-Hornoch P, Demner-Fushman D, Elhadad N. Auditing Learned Associations in Deep Learning Approaches to Extract Race and Ethnicity from Clinical Text. AMIA Annual Symposium. 2023.

2. Bear Don't Walk OJ, **Pichon A**, Reyes Nieva H, Sun T, Altosaar J, Joseph J, Kinberg S, Richter L, Crusco S, Kulas K, Ahmed S, Snyder D, Rahbari A, Ranard B, Juneja P, Demner-Fushman D, Elhadad N. C-REACT: Contextualized Race and Ethnicity Annotations for Clinical Text. PhysioNet; 2023.

3. Hussein R, Griffin AC, **Pichon A**, Oldenburg J. A Guiding Framework for Creating a Comprehensive Strategy for MHealth Data Sharing, Privacy, and Governance in Low- and Middle-Income Countries (LMICs). JAMIA. https://doi.org/10.1093/jamia/ocac198

4. **Pichon A**, Jackman K, Winkler I, Bobel C, Elhadad N. The Messiness of the Menstruator and their Needs: Characterizing the Personas and Functionalities of Menstrual Trackers. JAMIA Special Issue Informatics for Sex- and Gender-Related Health: Understanding the problems, developing new methods, and designing new solutions. 2021. https://doi.org/10.1093/jamia/ocab212

5. **Pichon A**[*], Idnay B[*], Marder K, Schnall R, Weng C. Cognitive Function Characterization Using Electronic Health Records Notes. AMIA Annual Symposium. 2021.

6. Beauchemin M, Weng C, Sung L, **Pichon A**, Abbott M, Hershman DL, Schnall R. Data Quality of Chemotherapy-Induced Nausea and Vomiting Documentation. Applied Clinical Informatics. 2021;12(2): 320–328. https://doi.org/10.1055/s-0041-1728698

7. **Pichon A**, Schiffer K, Horan E, Massey B, Bakken S, Mamykina L, Elhadad N. Divided We Stand: The Collaborative Work of Patients and Providers in an Enigmatic Chronic Disease. Proc. ACM HCI. 2020;4(CSCW3): Article 261. https://doi.org/ 10.1145/3434170

8. Ensari I, **Pichon A**, Lipsky-Gorman S, Bakken S, Elhadad, N. Augmenting the Clinical Data Sources for Enigmatic Diseases: A Cross-Sectional Study of Self-Tracking Data and Clinical Documentation in Endometriosis. Applied Clinical Informatics. 2020;11(5), 769–784. https://doi.org/10.1055/s-0040-1718755

9. Cho H, Powell D, **Pichon A**, Kuhns L, Garofalo R, Schnall R. Eye-tracking retrospective think-aloud as a novel approach for a usability evaluation. International Journal of Medical Informatics. 2019;129: 366-373.

10. Cho H, Powell D, **Pichon A**, Thai J, Bruce J, Kuhns L, Garofalo R, Schnall R. A mobile health intervention for HIV prevention among racially and ethnically diverse young men: usability evaluation. JMIR mHealth and uHealth. 2018;6(9): e11450.

11. Schnall R, Cho H, Mangone A, **Pichon A**, Jia H. Mobile health technology for improving symptom management in low-income persons living with HIV. AIDS and Behavior. 2018;22(10): 3373-3383.

[*] Contributed equally, co-first authors

Manuscripts In Preparation and Under Review

1. **Pichon A**, Urteaga I, Mamykina L, Elhadad N. Informing the Design of Individualized Self-management Regimens from the Human, Data, and Algorithmic Perspectives. Revising with reviewer comments for new submission.

2. Bear Don't Walk OJ, **Pichon A**, Reyes Nieva H, Sun T, Altosaar J, Joseph J, Kinberg S, Richter L, Crusco S, Kulas K, Ahmed S, Snyder D, Rahbari A, Ranard B, Juneja P, Demner-Fushman D, Elhadad N. Two Sets of Gold-standard Annotations for Race and Ethnicity in Clinical Notes from MIMIC-III. Currently revising based on reviewer comments for new submission.

Peer-Reviewed Proceedings Papers

1. Hussein R, **Pichon A**, Oldenburg J, Sareban M, Niebauer J. Can Patient Contributed Data (PCD) leverage connected health technology for cardiac rehabilitation in Austria? (Conference, Full-paper). In: Medical Informatics Europe 2023 (MIE2023). 2023 May 22-25; Goteborg, Sweden.

2. Stonbraker S, Cho H, Hermosi G, **Pichon A**, Schnall R. Usability testing of a mHealth app to support self-management of HIV-associated non-AIDS related symptoms. International Conference on Nursing Informatics; 2018 Jun 6-8; Guadalajara, Mexico. Studies in Health Technology and Informatics; 2018;250:106-110.

3. Schnall R, Cho H, Mangone A, **Pichon A**. A mobile video information provider (VIP) for dissemination of evidence from patient-centered outcomes research for improving symptom management. European Federation of Medical Informatics, Special Topic Conference; 2017 Oct 22-23; Tel Aviv, Israel. Studies in Health Technology and Informatics; 2017;244:80.

Peer-Reviewed Presentations and Workshops

1. **Pichon A**, Volpe S, Kashyap A, Desai P, Anand T, Campbell E, Schiffer-Kane K, Diamond C, Massey B, Allsman C, Newbury A, Richter L, Bright T, Bakken S, Bear Don't Walk O. Synthesizing Gaps and Priorities for a Justice Informatics Research Agenda. Presented at: AMIA 2023 symposium.

2. **Pichon A**, Blumberg J, Elhadad N. Defining, Characterizing, and Predicting Endometriosis Flare-Ups through Machine Learning with Patient-Generated Data. Presented at: 15th World Congress on Endometriosis; 2023; Edinburgh, Scotland.

3. **Pichon A**, Urteaga I, Mamykina L, Elhadad N. Informing the Design of Individualized Self-management Regimens from the Human, Data, and Algorithmic Perspectives. Presented at: AMIA Annual Symposium; 2022; Washington, DC.

4. Bear Don't Walk OJ, **Pichon A**, Volpe S, Grossman Liu L, Desai P, Anand T, Richter L, Schiffer K, Diamond C, Massey B, Bakken S. A Workshop to Build a Research Agenda for Justice Informatics. Workshop held at: AMIA Annual Symposium; 2022; Washington, DC.

5. **Pichon A**, Houterloot M, Schiffer K, Horan E, Elhadad N. Get on the same page: negotiating and aligning knowledge and expectations between patients and providers through self-tracking artifacts. Presented at: AMIA Annual Symposium; 2019; Washington, DC.

Peer-Reviewed Poster Presentations

1. Blumberg J, **Pichon A**, Elhadad N. Defining, Characterizing, and Predicting Endometriosis Flare-Ups through Machine Learning with Patient-Generated Data. Poster session presented at: AMIA 2023 Symposium.

2. Schnall R, **Pichon A**, Scherr T. In-depth interviews to understand the feasibility of using the mLab app for promotion of HIV-self testing in young men. Poster session presented at: Creating the healthiest nation: health equity now. APHA Annual Meeting; 2018 Nov 10-14; San Diego, CA.

3. Cho H, Powell D, **Pichon A**, Bruce J, Kuhns L, Schnall R. Usability evaluation of a mobile intervention (MyPEEPS mobile) for HIV prevention among young men. Poster session presented at: Data, technology, and innovation for better health. AMIA Annual Symposium; 2018 Nov 3-7; San Francisco, CA.

4. Schnall R, **Pichon A**, Scherr T. Mixed methods feasibility study of the use of the mLab app for promoting the uptake of HIV testing. Poster session presented at: Data, technology, and innovation for better health. AMIA Annual Symposium; 2018 Nov 3-7; San Francisco, CA.

5. Schnall R, **Pichon A**, Scherr T. Feasibility of using mobile phone imaging to interpret HIV rapid self-testing results among young high-risk men. Poster session presented at: Connecting systems and people to improve population health. Public Health Informatics Conference; 2018 Aug 20-23; Atlanta, GA.

6. Schnall R, Cho H, **Pichon A**, Jia H. Mobile health technology for improving symptom management in low-income persons living with HIV. Poster session presented at: AMIA Clinical Informatics Conference; 2018 May 8-10; Scottsdale, AZ.

7. Schnall, R, Cho, H, Mangone A, **Pichon A**, Jia H. Mobile health technology for improving symptom management in low income persons living with HIV. Poster session presented at: Academy Health Conference on the Science of Dissemination and Implementation in Health; 2017 Dec 4-6; Arlington, VA.

Non-Peer-Reviewed Publications

1. Patient Empowerment Workgroup: Moen MD, Oldenburg J, **Pichon A**, et al. HL7 Informative Document: Patient Contributed Data. 2022. White paper currently undergoing revision due to favorable balloting process within HL7.

2. Messeri P, **Ball A**. Medication adherence support services. New York, NY: Columbia University, New York Health and Human Services Planning Council; 2018. CHAIN Report #2016-1. Available from: www.nyhiv.org/data_chain.html

3. Messeri P, Zabel T, **Ball A**. Predictors of long-term survival for persons living with HIV: a literature review and empirical study of the New York City CHAIN cohort. New York, NY: Columbia University, New York Health and Human Services Planning Council; 2018. CHAIN Report #2016-2. Available from: www.nyhiv.org/data_chain.html

4. Messeri P, **Ball A**, Sharma N. Prevalence of non-HIV comorbid health conditions in the CHAIN cohort. New York, NY: Columbia University, New York Health and Human Services Planning

Council; 2016. CHAIN Report #2013-6. Available from: www.nyhiv.org/data_chain.html

5. Messeri P, **Ball A**. Hepatitis C lifetime prevalence and treatment. New York, NY: Columbia University, New York Health and Human Services Planning Council; 2016. CHAIN Briefing #2015-3. Available from: www.nyhiv.org/data_chain.html

6. Messeri P, **Ball A**. Place of residence and location of services. New York, NY: Columbia University, New York Health and Human Services Planning Council; 2015. CHAIN Briefing #2015-1. Available from: www.nyhiv.org/data_chain.html

7. Frazer S, Howe E, Lelutiu-Weinberger C, **Ball A**. Feasibility study for LGBT SAINT: serving lesbian, gay, bisexual, and transgender adolescents in need of treatment. New York, NY: Strength in Numbers Consulting Group; 2015.

Non-Peer-Reviewed Presentations

1. **Pichon A**. Acknowledging Menstrual Challenges, Approaching Menstruation through FemTech. Flash talk presented at: Multifaceted Menstruation - an Interdisciplinary Workshop at Columbia University (Menstrual Health and Gender Justice Working Group and Center for Social Difference); 2019; New York, NY.

2. Massey B, **Pichon A**, Elhadad N. Characterizing, Comparing, and Contrasting Patients' and Providers' Approaches to Endometriosis Management. Presentation at: Annual Biomedical Research Conference for Minority Students (ABRCMS); 2019; Anaheim, CA.

3. Massey B, **Pichon A**, Elhadad N. Characterizing, Comparing, and Contrasting Patients' and Providers' Approaches to Endometriosis Management. Poster Presentation. NCAT Undergraduate Research and Creative Inquiry Symposia. 2019; Greensboro, NC.

4. Ensari I, McKillop MM, **Pichon A**, Lipsky-Gorman S, Bakken SB, Elhadad N. Augmenting the learning health system with citizen science to tackle health inequalities. Poster session presented at: Annual Data Science Day at Columbia University; 2019; New York, NY.

Lectures (Invited)

1. Warsame L, Wiley K, Cato K, Hernandez-Boussard T, **Pichon A**. Inclusive Informatics: Reducing Bias in Our AI Systems. AMIA For Your Informatics Podcast; Live Event at AMIA 2022; Washington, DC.

2. Biomedical Informatics Approaches to Facilitate Endometriosis Research & Care. Talk presented at: Columbia University Mailman School of Public Health Period Posse Presents: Webinar Series, Menstrual Disorders: A Focus on Endometriosis; March 2021; virtual webinar via zoom (recorded).

3. FemTech to Advance Menstrual Health. Lecture presented at Columbia University: Menstruation, Gender and Rights: Interdisciplinary Approaches Course; February 2021; virtual class via zoom.

4. Citizen Endo: Supporting patients and providers in hacking endo together through data-powered tools. Talk presented at: Endometriosis Foundation of America Annual Medical Conference and Patient Day; March 2020; New York, NY. [cancelled due to COVID-19]

5. Categorizing the complex: context matters with sex and gender in research. Talk presented at: City-As-School Annual Showcase; June 2019; New York, NY. [talk also presented in 2020]

Non-Academic Writing and Dissemination

1. **Pichon A**. Working Group gives plenary panel at 2019 Society for Menstrual Cycle Research Conference. Menstrual Health & Gender Justice Blog; June 2019. Available from: https://periodsatcolumbia.com/2019/06/19/working-group-gives-plenary-panel-at-2019-society-for-menstrual-cycle-research-conference/

2. **Pichon A**. Menstrual Spotlight: Meet faculty fellow Nancy Reame! Menstrual Health & Gender Justice Blog; February 2019. Available from: https://periodsatcolumbia.com/2019/02/01/menstrual-spotlight-meet-faculty-fellow-nancy-reame/

Media

1. "One in 10 Who Menstruate Suffer from Endometriosis. Why Do We Know So Little about It?" Noémie Elhadad was featured and I was included in supporting footage on: Scientific American; December 2022. Available from: https://www.scientificamerican.com/video/one-in-10-who-menstruate-suffer-from-endometriosis-why-do-we-know-so-little-about-it/

2. How endometriosis disrupts women's lives: "Please just let me make it through today." Noémie Elhadad was featured and I was included in supporting footage on: CBS This Morning News; June 2019. Available from: https://www.cbsnews.com/news/endometriosis-disrupts-womens-lives-lena-dunham-susan-sarandon-padma-lakshmi/

3. How endometriosis disrupts women's lives: "Please just let me make it through today." Noémie Elhadad was featured and I was included in supporting material on: BBC Digital Planet; March 2019. Available from: https://www.bbc.co.uk/programmes/w3cswhfr

Service: Peer-Reviewer, Volunteer *Publons profile*: https://publons.com/researcher/3606167/adrienne-pichon/

- ACM Computer Supportive Collaborative Work (CSCW)
- ACM Conference on Healthcare, Inference, and Learning (CHIL)
- Sexual and Reproductive Health Matters
- Special Issue of ACM Transactions on Human-Computer Interaction (ToCHI): HCI and the Body: Reimagining Women's Health
- Journal of the American Medical Informatics Association (JAMIA), and the Special Issue of JAMIA: Informatics for Sex- and Gender-Related Health: Understanding the problems, developing new methods, and designing new solutions
- American Medical Informatics Association (AMIA) Annual Symposium
- American Medical Informatics Association (AMIA) Clinical Informatics Conference
- Journal of Biomedical Informatics (JBI)
- Applied Clinical Informatics (ACI)
- Journal of Medical Internet Research (JMIR)
    - JMIR mHealth and uHealth
    - JMIR Research Protocols
    - JMIR Public Health and Surveillance

Institutional Organizations & Committees

Summer 2020 – Present	Justice Informatics Group *Institution*: Department of Biomedical Informatics, Columbia University: New York, NY *Role*: Co-founder and leader
August 2020 – Present	Patient Empowerment Working Group, HL7 *Role*: Participant in broader HL7 working group, and active member of the patient-contributed data subgroup, authored section of white paper
April 2019 – Present	New York Academy of Sciences
September 2018 – 2021	Menstrual Health & Gender Justice Working Group *Institution:* Center for the Study of Social Difference, Columbia University: New York NY *Role:* Research Fellow
October 2013 – May 2015	Sexual and Reproductive Health Action Group (SHAG) *Institution:* Mailman School of Public Health, Columbia University: New York NY *Role:* Student member
October 2013 – May 2015	Queer Health Task Force (QHTF) *Institution:* Mailman School of Public Health, Columbia University: New York NY *Role:* Student member

Mentorship

2020 – 2023 (anticipated)	*Description*: Provided support and mentorship for (1) high school student for long-term research project, with the student successfully submitting to the Regeneron competition and carrying on that work to design and conduct a follow-up pilot study. *Duration*: Weekly meetings throughout the duration of the projects, including summer. *Institution:* Department of Biomedical Informatics, Columbia University: New York NY *Regeneron Competition Submission:* A Supervised Machine Learning Approach to Defining, Characterizing, and Predicting Endometriosis Flare-Ups *Additional Submission:* Presented work to World Congress on Endometriosis, Presented poster for AMIA annual symposium *Follow-up Project:* Phendo Voice Pilot Study
2019	*Description:* Provided support, direction, and supervision for summer internship of (1) undergraduate student. *Duration*: Weekly or more frequent meetings over 2 months. *Final Project Title:* Characterizing, Comparing, and Contrasting Patients' and Providers' Approaches to Endometriosis Management *Program:* Summer Fellowship

Institution: Department of Biomedical Informatics, Columbia University: New York NY

2019

Description: Provided supervision, direction, and feedback for 1-week summer internship of (5) high school students.
Duration: 4 full-days of summer internship
Project: Engagement of Adolescent Girls in Menstrual App Research
Program: The Chapin School, Senior Internship
Institution: Department of Biomedical Informatics, Columbia University: New York NY

2018 – 2019

Description: Led research activities for provider interviews for PhendoPHL project, collaborating with (1) student to develop themes, codebook, and analysis. Provide support for Barnard senior thesis, a result of work together.
Duration: Full academic year, weekly meetings at minimum
Thesis Title: Endometriosis Storytelling through Self-Tracked Data: An Integrative Analysis of Digital Experience, Illness Narratives, and Clinical Encounters
Institution: Department of Biomedical Informatics, Columbia University: New York NY

2017 – 2018

Description: Provided direction for daily research tasks and guidance for long-term projects for (12) Masters of Public Health Research Assistants.
Duration: students work approx. 20 hours per week, average of 1-3 semesters per student, generally 3-5 students on staff simultaneously
Program: Masters of Public Health Student Research Assistant, from Columbia University Mailman School of Public Health
Institution: School of Nursing, Columbia University: New York NY

2017

Description: Provided supervision to (1) undergraduate pre-med student seeking exposure to clinical informatics research.
Duration: 4 days per week, 6 weeks
Program: North East Regional Alliance (NERA) MedPrep HCOP Academy
Institution: School of Nursing, Columbia University: New York NY

2015 – 2016

Description: Paired to mentor (1) student research assistant, mentorship activities included survey design and implementation, data management and quality assurance procedures, and writing support.
Duration: 2 days per week, 3 semesters
Program: Masters of Public Health Student Research Assistant, from Columbia University Mailman School of Public Health
Institution: Mailman School of Public Health, Columbia University: New York NY

2014

Description: Paired to work with (1) undergraduate research student from Kansas interested in health disparities, mentorship activities included literature review support, research study design, and data analysis.
Duration: 3 days per week, 8 weeks
Program: Summer Public Health Scholars Program
Institution: Mailman School of Public Health, Columbia University: New York

NY

Professional Research Experience

Columbia University: New York NY
Department of Biomedical Informatics: PI: Noémie Elhadad, PhD
September 2018 – September 2019 **Research Coordinator**

Project: Citizen Endo & Even (PI: Elhadad)

Objective: Data-powered women's health, currently focusing on endometriosis. The Phendo app was developed with end-users to self-track symptoms and management of endo. I am applying visual analytics and time-series analysis to identify temporal patterns using patient generated data to facilitate individual insights and to support shared decision-making between patients and providers.

Columbia University: New York NY
School of Nursing: PI: Rebecca Schnall, PhD, MPH, RN-BC
February 2018 – September 2018 **Project Manager**
February 2017 – February 2018 **Research Coordinator**

Project: **MyPEEPS**, Pragmatic Clinical Trial of MyPEEPS Mobile to Improve HIV Prevention Behaviors in Diverse Adolescent MSM (U01 MD011279, NIH/NIMHD) (PI: Schnall/Garofalo)

Objective: The MyPEEPS Mobile project is a sexual health education curriculum for HIV prevention and sexual health promotion, based in 4 cities. I was responsible for setting up research activities across phases and sites (traveling twice to Birmingham to train staff). I oversaw Qualtrics and REDCap survey creation and distribution. I recruited for and conducted interviews (n=10, each site) about cultural ideas of gender and sexuality, HIV and PrEP knowledge, and LGBT slang to update app curriculum. I substantively contributed to usability design, implementation (eye tracking and retrospective think-aloud protocol), and analysis (n=20, total) and worked with the research team, app developers, and other stakeholders to iteratively apply app updates from participatory research findings. Finally, I set up and implemented pilot procedures (2 time-points, n=10, each site) and modified to successfully manage the launch of the full RCT (5 time-points, 2 conditions, n=700 total).

Project: **mLab**, mLab App for Improving Uptake of Rapid HIV Self-testing and Linking Youth to Care (R01 MH118151-01, NIH/NIMH) (PI: Schnall/Garofalo)

Objective: The mLab app utilizes mobile phone imaging and cloud-based analysis via an image processing algorithm (originally validated to detect and report malaria) to provide real-time feedback on home-based OraQuick (lateral flow assay) HIV test results. I contributed to the initial feasibility study, where we recruited and elicited feedback from 20 YMSM about their potential use of the app. I presented results of the feasibility study at the 2018 Public Health Informatics Conference, and contributed to the successful proposal for the upcoming full RCT (n=300).

Project: **VIP-HANA**, Video Information Provider for HIV-Associated Non-AIDS (VIP-HANA) Symptoms (R01 NR015737, NIH/NINR) (PI: Schnall)

Objective: The VIP-HANA app utilizes symptom self-tracking to provide strategies for symptom self-management for people living with HIV (PLWH). I contributed to the usability evaluation (n=20), including an assessment of symptom data visualizations using a concurrent think-aloud protocol. I also managed the research team while this project was launched (2 time-points, 2 conditions, n=100).

Project: **VIP-HANA Gender Supplement**, Video Information Provider for HIV-Associated Non-AIDS (VIP-HANA) Symptoms (Supplement) (3R01 NR015373-02S1) (PI: Schnall)

Objective: Utilizing Ecological Momentary Assessments (EMAs) to enable patients to self-track symptom data using SMS text messaging in real-time, combined with hormone levels assessed at baseline with blood serum, this project aims to understand gender-differences in symptom experience for PLWH. Specifically, investigators sought to understand how women in different phases of menopause experience symptoms (blood draw at baseline, 20 EMAs, n=25 men, n=25 pre-menopausal women, n=25 peri-menopausal women, n=25 post-menopausal women). I was responsible for coordinating logistics of this project, implementing biological specimen data collection at the Irving Institute Clinical Research Resource, and assembled, cleaned, and analyzed data from various data sources.

Project: **mVIP**, Use of mHealth Technology for Supporting Symptom Management in Underserved Persons Living with HIV (R21 NR015737, DHHS/AHRQ) (PI: Schnall)

Objective: Symptom-self management strategies were translated from a paper-based manual into an informatics app for

PLWH. Patients self-track symptoms and receive text and video strategies to mitigate symptoms (2 time-points, 2 conditions, n=80). Consistent with user-centered design, end-users were involved in the iterative, multi-level design and evaluation of the app. I conducted follow-up visits, coordinated and conducted focus groups (n=36, Dr. Bakken advised, I facilitated 1 of 4 sessions), and conducted in-depth interviews (n=10) about real-world usability factors. I also created a flexible tracking database using MS Access, initially for use with this project.

Project: **Wise App**, The Wise App Trial for Improving Health Outcomes in PLWH (R01 HS025071, AHRQ) (PI: Schnall)
Objective: The Wise App Trial utilizes a cellular/Bluetooth enabled pill bottle and FitBit activity tracker to support medication adherence and promote wellness among PLWH (3 time-points, 2 conditions, n=300). I managed the research team that implemented this project, and contributed to development meetings with software developers.

Columbia University: New York NY
Mailman School of Public Health: PI: Peter Messeri, PhD & Angela Aidala, PhD
June 2015 – February 2017 **Junior Programmer**
December 2014 – June 2015 **Research Assistant**

Project: **CHAIN** (Community Health Advisory and Information Network), Community Health Project (PI: Messeri/Aidala)
Objective: The CHAIN project is a prospective, representative longitudinal study of PLWH in NYC and the surrounding counties. The mission of CHAIN is to provide systematic data from the perspective of PLWH about their needs for health and human services, encounters with HIV services, and health-related quality of life. The CHAIN data are used to inform allocation of Ryan White funding to NYC agencies and city policies surrounding HIV through the HIV Planning Council (including 'HASA for All'). I designed and implemented a new Computer Assisted Personal Interview (CAPI) system with 1000+ fields including complex skip logic and looping patterns. I updated the data management procedures including writing code to preprocess data and generate useful relational datasets. I contributed to data analysis and dissemination of results (including Structural Equation Modeling).

Project: **WT Grant** Evidence-Based Policy of Obesity and Childhood Vaccinations (PI: Messeri/Nathanson)
Objective: This qualitative study focused on exploring the use of evidence in enacting policy at the state level, using case study states from across the political spectrum. I contributed logistical, technical, and general research support including qualitative coding with Dedoose software.

Strength in Numbers Consulting Group: New York NY: PI: Somjen Frazer
February 2014 – February 2017 **Research and Program Development Assistant**

Project: **LGBT SAINT** (Serving Adolescents in Need of Treatment) (PI: Frazer)
Objective: This feasibility study was conducted for the LGBT Center of NYC, to design a treatment program and referral network for young LGBT people facing challenges with alcohol and illicit drugs. This project fulfilled my MPH practicum requirements. I documented and developed an interactive intake flow map. I also organized literature reviews, notes from research meetings, qualitative transcripts from focus groups, and quantitative survey data.

Project: **New York State LGBT+ Health and Human Services Needs and Resources Assessment** (PI: Frazer)
Objective: This project was commissioned on behalf of the New York State LGBT Health & Human Services Network to inform programming and policy change and to communicate with broad audiences about LGBT disparities in health. I contributed detailed data checks, minimal writing, and flexible data visualizations via reusable code template.

Tema General Hospital: Tema, Ghana
May 2012 – July 2012 **Research Assistant**

Project: **Exploratory Research on Contraceptive Knowledge and Unsafe Abortion** (PI: Kessler)
Objective: To explore contraceptive knowledge and attitudes among women in Ghana. I developed and implemented a survey for prenatal patients to determine level of knowledge of female anatomy, physiology, and family planning methods including access to abortion and collected data from surveys. Using findings, I drafted an educational pamphlet integrating cultural standards for clinical use. I also observed the clinical workflow in the maternity ward.

Professional Certifications

December 2017, Current	Sponsored Projects Certification *Institution:* Office of the Executive Vice President for Research, Columbia University: New York NY Training program for professional research staff at Columbia University covering key compliance and regulatory requirements and resources available to support research activities and proposal development.
Current RASCAL	HIPAA; Human Subjects & IT Security; Clinical Research Coordinator; Responsible Conduct of Research; FDA-Regulated Research (with minors); Dry Ice; Bloodborne Pathogens