

BIOGRAPHICAL SKETCH

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NAME: Archer, Adler

eRA COMMONS USER NAME (credential, e.g., agency login): aaallasys

POSITION TITLE: Associate Research Scientist

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Community College of the Air Force	A.A.S.	03/2002	Scientific Analysis Technology
Columbia College, Online	B.A.	03/2008	General Studies
University of Denver, Denver	M.A.	05/2013	Organizational Communications
New York Law School, New York	J.D.	05/2013	Law
King's College London, London	M.S.	10/2015	Mindfulness Neuroscience
Johns Hopkins Carey Business School	Graduate Certificate	05/2016	Business of Healthcare
Johns Hopkins University School of Medicine	M.S.	05/2019	Health Sciences Informatics

A. Personal Statement

I am an associate research scientist in the Department of Biomedical Engineering at Johns Hopkins, with a joint appointment in the Department of Medicine at Johns Hopkins University School of Medicine, and an adjunct instructor appointment at Johns Hopkins Carey Business School. My research focuses on the engagement of diverse stakeholders in biomedical informatics and innovation. I also serve as the Managing Director of the Inclusive Innovation Initiative at the Johns Hopkins Whiting School of Engineering. I have a broad background in neuroscience, health informatics, law, and systems engineering. I have served as a PI or co-Investigator on several university studies examining social identity and institutionalism in innovation involvement. I bring insights into how those factors influence physician-led and community-led healthcare innovation. Complimentary to my research experience, I have spent the last 24 years leading technology design and deployment efforts for large and small organizations. That includes serving in the United States Air Force and later working at Fortune 100 companies, global nonprofits, and top 10 universities. My passion for community health, technical know-how, and business expertise power my interest in the community involved innovation. As a community advocate and social entrepreneur, I am building partnerships between researchers, clinicians, and community members to leverage medical technologies and health informatics to improve social determinants of health outcomes.

Ongoing and recently completed projects that I would like to highlight:

1. *National Institutes of Health*
9/30/2022 – 3/1/2024
NeuroTech Harbor
Archer (Senior Personnel)

2. *Kauffman Foundation*
08/18/2022 – 08/17/2025
Knowledge Challenge
Archer (Co-PI)
3. *National Science Foundation*
06/15/2022 – 05/31/2027
Project ELEVATE (Equity-focused Launch to Empower and Value AGEP Faculty to Thrive in Engineering)
Archer (Senior Personnel)
4. *Johns Hopkins Medicine TIC*
Archer (PI)
09/30/2017 – 11/13/2023
HEXCITE: Empowering Clinicians to Drive Digital Health Innovation Through a Health System-Based Accelerator Program.

Related Citation:

Archer A, Mcneil J, Johnson T, et al. *Impact of entrepreneurship training on clinician engagement in innovation creation: an evaluation of the Johns Hopkins Hexcite programme BMJ Leader Published Online First: 29 December 2020. doi: 10.1136/leader-2019-000197*

Samuel Weinreb, Izabella Samuel, Kai Zhang, Mackenzie Hall, Mariana Bendavit, Adler Archer, and Neha Verma. "Adapting a global telehealth model to solve U.S. healthcare needs: age-related hearing loss as a test market." *Journal of Clinical and Translational Science*, 2021.

B. Positions, Scientific Appointments, and Honors

Positions and Scientific Appointments

- 2023 – pres. Courtesy Appointment, Carey Business School, Johns Hopkins University, Baltimore MD
- 2022 – pres. Joint Faculty Appointment, Department of Medicine, Johns Hopkins University, Baltimore MD
- 2022 – pres. Adjunct Faculty Appointment, Carey Business School, Johns Hopkins University, Baltimore MD
- 2021 – 2024. Director, Office of Strategy Management, Whiting School of Engineering, Johns Hopkins University, Baltimore, MD
- 2021 – pres. Assc. Research Scientist, Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2021 – pres. NIH SBIR Reviewer, Risk, Prevention and Health Behavior (RPHB) IRG
- 2016 – pres. Researcher, Technology Innovation Center, Johns Hopkins University, Baltimore MD
- 2009 – pres. CEO, Adloris, Ltd, Baltimore MD
- 2020 - 2021 Presidential Fellow, University Administration, Johns Hopkins University, Baltimore MD
- 2020 - 2021 Guest Lecturer, Integrative Medicine, University of Maryland, Baltimore, MD
- 2006 – 2009 Senior Manager, TEKsystems (Jeppesen / Boeing), Denver CO
- 2004 – 2006 Senior Space Systems Engineer, Lockheed Martin, Boulder CO
- 2000 – 2004 Senior Space Systems Analyst, United States Air Force, Buckley AFB

Other Experience and Professional Memberships

- 2020 - pres. Co-Chair, Veterans ERG, Johns Hopkins Medicine, Baltimore MD
- 2018 - pres. Associate, Faculty of Medical Leadership and Management, London, England
- 2018 - pres. Senior Associate, Royal Society of Medicine, London, England
- 2017 - pres. Member, Health and Information Technology, American Health Lawyers Association
- 2017 - pres. Member, Ethical Legal and Social Issues WG, American Medical Informatics Association
- 2020 - 2021 Co-President, IT DDI Council, Johns Hopkins University, Baltimore MD
- 2017 - 2019 Advisor, Advisory Council, Chase Brexton LGBT Resource Center, Baltimore, MD
- 2015 - 2020 President Appointee, Health Law Committee, Baltimore City Bar Association, Baltimore, MD
- 2012 - 2015 Member, Military Affairs Committee Member, New York City Bar Association, New York, NY
- 2012 - 2014 Associate, New York Law School Rooftops Project, New York, NY
- 2010 - 2012 Nonprofit Operating Committee Member, New York City Bar Association, New York, NY
- 2009 – 2010 CO Steering Committee, Human Rights Campaign, Washington D.C.

Honors

2020	LGBT Achiever Award, Johns Hopkins Medicine, Baltimore, MD
2020	JHU President Management Fellowship, Johns Hopkins Medicine, Baltimore, MD
2019	David E Rogers Award, Johns Hopkins Medicine, Baltimore MD
2018	Provost's Diversity Recognition Award, Johns Hopkins University, Baltimore, MD
2018	LGBT Veteran's Business Enterprise of the Year, Honorable Mention, NaVOBA
2017	GSA Hopkins Citizen of the Year, Johns Hopkins University, Baltimore, MD
2017	Leadership Award, Biomedical Scholars, Johns Hopkins University, Baltimore, MD
2016	Fellow, New Leaders Council
2011- 2013	Honorable Alfred D. Lerner '51 Scholar, New York Law School
2002	Commander Appointee, Buckley Air Force Base Honor Guard

C. Contribution to Science

1. My early research examined the relationship between childhood gender non-conformity, school-related distress, and low self-esteem using longitudinal data. These data were extracted from the Avon Longitudinal Study of Parents and Children (n = 13,971). Before the research, previous studies had shown an association between gender non-conformity and 1) increased bullying, as well as 2) lower self-esteem but relied on retrospective accounts and cross-sectional data. Those studies found that gender non-conforming children were assumed to be homosexual, which led to less social support due to the negative attitudes towards gays and lesbians. This lack of social support made at-risk gender non-conforming children even more susceptible to psychological distress. The effects were felt long after childhood, as retrospective accounts of childhood experiences by gender non-conforming adults confirmed poor self-esteem, discomfort, and marked anxiety for rejection and victimization. My research found that the degree of gender non-conformity, as reported by mothers at months 30, 42, and 57, was significantly associated with self-reports of being bullied at 97 months. The research distinguished between overt and relational bullying to identify specific types of bullying behavior based on gender. The study also found that the degree of gender non-conformity as reported by the mother at months 30, 42, and 57 was significantly associated with self-reports of lower self-esteem at 97 months in girls. This research bolstered the rationale for self-esteem interventions in gender non-conforming children and highlighted specific types of bullying types to monitor.
 - a. Archer, A. "The Impact of Childhood Gender Non-Conformity on Being Bullied and Self-Esteem: A Prospective Birth Cohort Study". Published (Non-Peer Review)
2. In addition to the contributions to gender identity research described above, I have more recently studied the impact of professional identity on clinician involvement in innovation. These studies emphasize the impact of permeating technology, evolving systems, and institutional support on doctors' engagement in health systems innovation. This research also examines the current training and incentives available to doctors interested in health systems innovation.
 - a. Archer, A., McNeil, J, Johnson, T; Ferlie, E; and Nagy, P. "Impact of Entrepreneurship Training on Clinician Involvement in Health Systems Innovation: An Evaluation of the Johns Hopkins Hexcite Program". (British Medical Journal Leader, 2020)

Complete List of Published Work in MyBibliography:

<https://orcid.org/0000-0003-1448-7967>

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