



## **2021 Election for Board Director**

### **Candidate**

Kenrick D. Cato, PhD, RN, CPHIMS, FAAN

### **Professional Title And Affiliation**

Vagelos School of Physicians and Surgeons,  
Assistant Professor of Research, Emergency Department

Columbia University School of Nursing  
Assistant Professor of Nursing

NewYork Presbyterian Hospital  
Nurse Researcher, Department of Nursing Research, Evidence-Based Practice and Innovation

### **Personal Statement**

I am a clinical informaticist at Columbia University with a research appointment at Columbia University School of Nursing, the Vagelos School of Physicians and Surgeons' Emergency Department, and NewYork Presbyterian Hospital Department of Nursing Research Evidence-Based Practice and Innovation. My program of research focuses on applying data science methods to electronic patient data in support of clinical decision-making.

I was born in Georgetown, Guyana, and emigrated to the United States when I was eight years old. I was raised to contribute to my community positively. My upbringing and desire to give back to my adopted country led me to join the United States Army soon after college. I served for ten years on active duty with the Army and then as an Infantryman with the Army National Guard, including four combat deployments. After leaving the military, I went back to school and obtained a bachelor's and doctorate in Nursing at Columbia University.

My interest in clinical informatics began in 2008 when I worked as a programmer on a research project led by Leanne Currie, Ph.D., RN. After working with Dr. Currie and her research, I learned how vital informatics is to the healthcare field. Those conversations led me to abandon my major as an Adult Nurse Practitioner and pursue a doctorate in Nursing, focusing on clinical informatics. I became an AMIA member in 2009 and have attended the annual symposium every year since. I have been a panelist in several workshops at the annual meeting, participated in the poster showcases every year, and presented many podium abstracts. I have also been a Nursing Informatics Working Group (NIWG) member for over eight years. I was a member of the planning committee for the AMIA 2017 iHealth meeting in Philadelphia. Currently, I serve in a leadership position as one of NIWG's member-at-large. In that role, I have chaired NIWG's Nominations and Elections Committee. I am also a member of AMIA's Diversity, Equity, and Inclusion task force. I am a steering committee member of the AMIA sponsored 25

by 5: Symposium to Reduce Documentation Burden on US Clinicians by 75% by 2025. In the spring of 2021, it was my honor and privilege to be the co-chair for the AMIA Clinical Informatics Conference. For me, like many of you, AMIA is my informatics home. The organization allows me to present my scholarly work, publishes the journals that keep me abreast of the latest science, and connects me to my friends and colleagues.

While considering a position on the AMIA board, I spoke to a few current board members: Tiffani Bright, Patricia Dykes, Jim Cimino, Sarah Rossetti, and Victoria Tiase. From these conversations, I am convinced that I will provide valuable contributions as a Director on the AMIA Board. First, I am deeply committed to equity and inclusion issues in our society and healthcare. I was a founding member of the Columbia University School of Nursing's Diversity Committee. I am currently a member of the Columbia University Irving Medical Center (CUIMC) Dean's Diversity Advisory Committee and the campus's related Civility Committee. I also serve on the CUIMC Provosts' Diversity Review Committee, tasked with appropriating over 30 million dollars in funds annually to hire more diverse faculty. I am not just passionate about diversity; I also understand the vicissitudes of the lack of diversity. I know what it feels like to be a person of color who has participated in AMIA meetings as the only African American in the room. Second, I have over 20 years of leadership experience. I have lead soldiers at both the team and company level into combat, trained foreign militaries, advocated for patients at the bedside, helped to start two technology companies, and lead multi-site research teams.

I am very excited about the potential of serving as a Director on the AMIA board. AMIA aligns with my values, and I am committed to the success of the new strategic plan. I look forward to promoting informatics as we work to transform healthcare for all.

### **Informatics Interests**

Electronic patient data  
Clinical decision support  
Data mining and analysis  
Health disparities  
Transgender health  
Implementation science  
Human factors research  
Usability research  
Interoperability  
Nursing informatics  
Research ethics

### **AMIA Engagement and Participation**

AMIA member, 2009 – Now  
Nursing Informatics Working Group (NIWG) member, 2012 – Now  
NIWG member-at-large, 2019 – Now  
iHealth Conference Program Committee member, 2017  
AMIA Clinical Informatics Conference (CIC) Co-Chair, 2021

AMIA Diversity, Equity, and Inclusion Task Force Subcommittee, 2020 – Now  
25 by 5: Symposium to Reduce Documentation Burden on US Clinicians by 75% by 2025,  
steering committee member  
Ad hoc reviewer for AMIA Annual Symposium, AMIA Clinical informatics conference, JAMIA

Attended and presented at the AMIA annual symposium every year since 2010  
Attended and presented at the AMIA Summit 2017, 2018, 2019  
Attended and presented AMIA Clinical Informatics Conference 2018, 2019

### **Participation in other organizations**

Oncology Nursing Society 2008- Present  
American Nurses Association 2008-Present  
American Medical Informatics Association 2009-Present  
Healthcare Information and Management Systems Society (HIMSS) 2010-Present  
Sigma Theta Tau – Honor Society of Nursing 2012-Present

### **Education and Experience**

#### Education

Doctor of Philosophy in Nursing, February 2014  
Columbia University School of Nursing, New York, NY  
Concentration: Clinical Informatics

Bachelor of Science in Nursing, May 2008  
Columbia University School of Nursing

Bachelor of Arts, Biological Anthropology May 1994  
Minor computer science  
Swarthmore College

Vagelos School of Physicians and Surgeons, Columbia University Irving Medical Center, New York, NY  
Assistant Professor of Clinical Medicine, September 2019 – present

Columbia University School of Nursing, New York, NY  
Assistant Professor, September 2016 – present

New York Presbyterian Hospital System, New York, NY  
Nurse Researcher January 2016 – present

Columbia University School of Nursing, New York, NY  
Research Scientist, March 2014 – August 2016

Team of Care, Inc, Fort Lee, NJ  
Chief Medical Informatics Officer, September 2013 – May 2016

New York Presbyterian Hospital, New York, NY  
IT Analyst for Quality and Patient Safety Division, – January 2010 – August 2013

New York City Area Hospitals, New York, NY  
Per Diem Nurse, March 2010 – November 2014

New York Presbyterian Hospital – The University Hospital of Columbia, New York, NY  
Staff Nurse, Surgical Oncology November 2009 – January 2010

Columbia University School of Nursing, New York, NY  
Programmer, August 2008 – October 2013

United States Army and Pennsylvania Army National Guard  
Infantry Non-Commissioned Officer and Commissioned Officer July 1997–July 2007

Night Kitchen Media, Philadelphia, PA  
Founder, Executive Producer, Programmer, March 1997–December 2001

Proscap Technologies, Fort Washington, PA  
Manager, Customization Services Programming  
August 1996–August 1997

Oxford Health Plans Medicaid HMO, Philadelphia, PA  
Quality analyst, Software Engineer, June 1995–July 1997

Rush Presbyterian Cancer Center, Chicago, IL  
Research Assistant, June 1994–June 1995

### **Recent Publications**

Ronquillo, C., Bakken, S., Beduschi, A., Cato, K., Chu, C., Hardiker, N., Junger, A., Michalowski, M., Nyrup, R., Peltonen LM., Pruinelli, L., Rahimil, S., Reed, N., Salakoskii, T., Salanteräi, S., Walton, N., Weber, P., Wiegand, T., Topaz, M. (2021). Artificial intelligence in nursing: Priorities and opportunities from an international invitational think-tank of the Nursing and Artificial Intelligence Leadership Collaborative. *Journal of Advanced Nursing*.

Rossetti Collins, S., Knaplund, C., Tariq A., Albers, D., K., Dykes, P... & Cato, K. (2021). Healthcare Process Modeling to Phenotype Clinician Behaviors for Exploiting the Signal Gain of Clinical Expertise (HPM-ExpertSignals): Development and Evaluation of a Conceptual Framework. *Journal of the American Medical Informatics Association*

Fu, L.H., Schwartz, J., Moy, A., Knaplund, C., Kang, M.J., Schnock, K.O., Garcia, J.P., Jia, H., Dykes, P.C., Cato, K., Albers, D. (2020) Development and Validation of Early Warning Score System: A Systematic Literature Review. *Journal of Biomedical Informatics*: 103410

Cato, K., McGrow, K., Rossetti, S,C. (2020). Transforming Clinical Data into Wisdom: Artificial Intelligence Implications for Nurse Leaders. Nursing Management.

Sun, C., Cato, K. (2020). How much time do nurses spend using electronic devices at work?. Nursing Manager. 51(3):22-29.

Rossetti Collins, S.,Knaplund, C.,Tariq A.,Tang,K., Vawdrey, D., Dykes, P... & Cato,K.(2019) Leveraging Clinical Expertise as a Feature - not an Outcome - of Predictive Models: Evaluation of an Early Warning System Use Case In AMIA Annual Symposium Proceedings (Vol. 2019, p. 323). American Medical Informatics Association.

Cato KD, Sun C, Dohrn J, Ferng Y, Klopper HC, Larson E.(2019). Nurse and midwife researcher collaboration in eastern sub-Saharan Africa: a social network analysis. International nursing review, 66(4):571-576.

Cato KD, Sun C, Carter EJ, Liu J, Rivera R, Larson E.(2019). Linking to Improve Nursing Care and Knowledge: Evaluation of an Initiative to Provide Research Support to Clinical Nurses. Journal of Nursing Administration. 49(1):48-54.

Cato KD, Liu J, Cohen B, Larson E. (2017). Electronic Surveillance of Surgical Site Infections. Surgical Infections (Larchmt).18(4):498-502.

Cato KD, Bockting W, Larson E. Did I Tell You That? Ethical Issues Related to Using Computational Methods to Discover Non-Disclosed Patient Characteristics. (2017). J Empir Res Hum Res Ethics.11(3):214-219.

### **Honors and Awards**

- 2005 Bronze Star, Unites States Army
- 2008 Lincoln Scholar, Columbia University School of Nursing
- 2009 Oncology Nurse Scholar, Columbia University School of Nursing
- 2012 Phi Beta Kappa, Theta Tau (nursing honorary)
- 2012 Jonas Veterans Scholar, Jonas Center for Nursing Excellence
- 2015 Fellow, New York Academy of Medicine
- 2015 Fellow Healthcare Informatics Technology Lab (HITLAB)
- 2016 Fellow Columbia University Data Science Institute
- 2017 Caribbean American Healthcare Professional Award
- 2019 Fellow American Academy of Nursing
- 2021 Co-chair American Medical Informatics Association Clinical Informatics Conference

**Evidence of Strategic Thinking/Experience in Activities of AMIA or another non-profit or institution**

AMIA Diversity, Equity, and Inclusion Task Force Subcommittee Columbia University Data and Science Committee and Health Analytics subgroup Columbia University Medical Center's Chief Information Officer's, Research Analytics Steering Team Meeting

25 by 5: Symposium to Reduce Documentation Burden on US Clinicians by 75% by 2025, steering committee member PCOR Clinical Decision Support Learning Network (PCOR CDS-LN) Advisory Council, member 2016-2018 Columbia School of Nursing Alumni Board, member 2017 – now AHRQ/NIDDK Chronic Kidney Disease e-Care Plan Working Group, member 2019 - Now

**Contributions to Activities that Support Diversity, Equity, and Inclusion**

AMIA Diversity, Equity, and Inclusion Task Force Subcommittee, member 2020- Now Columbia University Irving Medical Center, Dean's Advisory Committee for Faculty Diversity & Inclusion, member 2018- now Columbia School of Nursing Diversity Committee, founding member, previous Co-chair, 2008 - now