



## **2021 Election for Board Secretary**

### **Candidate**

Philip Payne

### **Professional Title And Affiliation**

Janet and Bernard Becker Professor and Director, Institute for Informatics; Associate Dean and Chief Data Scientist

### **Personal Statement**

Over the past two decades, I have devoted my scholarly and professional career to improving health and promoting wellness through the integrative use of computational and data science methods, as well as the systematic study of the socio-technical, policy and human factors that impact the adoption and optimal use of information technology. As a software engineer, graduate trainee, researcher, educator, administrator, and entrepreneur, I have had the opportunity to contribute to basic and applied Biomedical Informatics science, clinical and translational research, and healthcare delivery. These experiences have shaped and informed a driving philosophy that emphasizes both an unwavering belief in the power of Biomedical Informatics to improve the human condition and the need for dynamic, energetic and strategic leadership to realize this outcome.

As we look toward the future of Biomedical Informatics, I believe that three trends will shape the future of our field and our organization, namely: 1) the re-invigoration of Biomedical Informatics as both a field of scientific research and as a driver of applied innovation and practice in the lab, at the point-of-care, and at the population levels; 2) the critical need to grow a robust Biomedical Informatics workforce, including training and mentoring future scientific, operational, and strategic leaders, all of whom can work across settings and domains; and 3) an essential evolution of our community to embrace and promote diversity in all aspects of our endeavors, wherein we will not only speak to the importance of such efforts but truly demonstrate them in every aspect of our work.

As a current member of the AMIA Board of Directors, and if afforded the privilege of serving as the secretary of that same board, I would advocate for strategies and policies that would enhance and expand our organization's position as the preeminent professional home for Biomedical Informatics education, research, and practice. By leading the way in all of the preceding critical areas, in a manner that responds to the current and future state of our field, we will ensure the future success and growth of the organization that we all consider as our professional home.

### **Informatics Interests**

My research interests can be broadly situated in the Biomedical Informatics sub-domains of Translational Bioinformatics, Clinical Research Informatics, and Applied Clinical Informatics.

These include the following specific areas:

- 1) Knowledge-based approaches to the discovery and analysis of bio-molecular and clinical phenotypes and the ensuing identification of precision diagnostic and therapeutic strategies in cancer
- 2) Interventional approaches to the use of electronic health records in order to address modifiable risk factors for disease and enable patient-centered decision making; and
- 3) The study of human factors and workflow issues surrounding the optimal use of healthcare information technology

### **AMIA Engagement and Participation**

Continuous member of AMIA since 1995

Continuous member of Clinical Research Informatics Workgroup since 2006

Regular service as a reviewer and SPC member for the AMIA Annual Symposium and AMIA Informatics Summit

Notable committee, editorial, and SPC service has included:

2007-2010, Co-Chair of Clinical Research Informatics Task Force

2008-2011, Steering Committee, Clinical Research Informatics Workgroup (including a term as chair of the workgroup)

2010, Track-Chair, AMIA Summit on Clinical Research Informatics

2011, SPC Chair, AMIA Summit on Clinical Research Informatics

2011-2020, Member, Editorial Board, Journal of the American Medical Informatics Association (JAMIA)

2017-2020, Chair, Education Committee

2017-2020, Secretary, American College of Medical Informatics (ACMI)

2017-Present, Chair, AMIA LEAD Fund

2018-2019, Member, Academic Forum Executive Committee (representative of Academic Leaders Community)

2018-Present, Associate Editor, Journal of the American Medical Informatics Association Open (JAMIA Open)

### **Participation in other organizations**

2009-Present, ACM Workshop on Interactive Systems in Healthcare (WISH)

2013-Present, AcademyHealth (including serving as a member of the Steering Committee for the EDM Forum and chairing the Healthcare Information Track at the 2016 Annual Research Meeting)

2017-present, International Society for Computational Biology (ISCB)

## **Education and Experience**

### Education

1995-1999: BA (Political Science), University of California, San Diego, La Jolla, CA  
1999-2000: MA (Medical Informatics), Columbia University, New York, NY  
2003-2006: MPhil (Biomedical Informatics), Columbia University, New York, NY  
2003-2006: PhD (Biomedical Informatics - With Distinction), Columbia University, New York, NY  
2017-2019: Advanced Management Certificate, Olin School of Business, Washington University, St. Louis, MO

### Experience

1995-1999: Programmer and Systems Analyst, Hamilton Glaucoma Center, University of California - San Diego, La Jolla, CA  
2000-2003: Director of Biomedical Informatics, Chronic Lymphocytic Leukemia (CLL) Research Consortium, Moores Comprehensive Cancer Center, University of California - San Diego, La Jolla, CA  
2003-2006: NLM Training Fellow (PhD Candidate), Columbia University, New York, NY  
2006-2010: Assistant Professor, Department of Biomedical Informatics, The Ohio State University, Columbus, OH  
2010-2014: Associate Professor and Chair, Department of Biomedical Informatics, The Ohio State University, Columbus, OH  
2014-2016: Professor and Chair, Department of Biomedical Informatics, The Ohio State University, Columbus, OH  
2014-2016: Director, Office of Academic Affairs - Discovery Themes Initiative, Translational Data Analytics, The Ohio State University, Columbus, OH  
2016-Present: Director, Institute for Informatics and Professor of Medicine and Computer Science, Washington University, St. Louis, MO  
2016-2020: Robert J. Terry Professor, Washington University, St. Louis, MO  
2020-Present: Janet and Bernard Becker Professor, Washington University, St. Louis, MO  
2020-Present: Associate Dean for Health Information and Data Science and Chief Data Scientist, Washington University School of Medicine, St. Louis, MO

### **Recent Publications**

Kannampallil TG, Foraker RE, Lai AM, Woeltje KF, Payne PR. When past isn't a prologue: Adapting informatics practice during a pandemic. *Journal of the American Medical Informatics Association*. 2020 Apr 25.

Payne PR, Detmer DE. Language matters: precision health as a cross-cutting care, research and policy agenda. *Journal of the American Medical Informatics Association*. 2020 Apr;27(4):658-61.

Li F, Michelson AP, Foraker R, Zhan M, Payne PR. Computational analysis to repurpose drugs for COVID-19 based on transcriptional response of host cells to SARS-CoV-2. *BMC Medical Informatics and Decision Making*. 2021 Dec;21(1):1-3.

Madhavan S, Bastarache L, Brown JS, Butte AJ, Dorr DA, Embi PJ, Friedman CP, Johnson KB, Moore JH, Kohane IS, Payne PR. Use of electronic health records to support a public health response to the COVID-19 pandemic in the United States: a perspective from 15 academic medical centers. *Journal of the American Medical Informatics Association*. 2021 Feb;28(2):393-401.

Cole CL, Sengupta S, Rossetti S, Vawdrey DK, Halaas M, Maddox TM, Gordon G, Dave T, Payne PR, Williams AE, Estrin D. Ten principles for data sharing and commercialization. *Journal of the American Medical Informatics Association*. 2021 Mar;28(3):646-9.

Kannampallil T, Abraham J, Lou SS, Payne PR. Conceptual considerations for using EHR-based activity logs to measure clinician burnout and its effects. *Journal of the American Medical Informatics Association*. 2021 May;28(5):1032-7.

### **Honors and Awards**

2003, Distinguished Poster, AMIA Annual Symposium

2008, Distinguished Poster, AMIA Annual Symposium

2010, Distinguished Paper, AMIA Summit on Translational Bioinformatics

2011, AMIA Leadership Award

2011, Awardee, Columbus Business First's "40 Under 40"

2011, Distinguished Paper Award, AMIA Summit on Clinical Research Informatics

2013, Elected Fellow, American College of Medical Informatics (FACMI)

2020, Elected Fellow, American Medical Informatics Association (FAMIA)

2021, Elected Fellow, American Institute for Medical and Biological Engineering (FAIMBE)

2021, Elected Fellow, International Academy of Health Sciences Informatics (FIAHSI)

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

During my tenure as the secretary of the American College of Medical Informatics (2017-2020), I led the development of both revised governing documents (resulting in greater clarity of the mechanisms for participatory leadership in that organization) as well as a 5-year strategic plan for the growth of the college as a source of mentorship and thought leadership for AMIA.

During my tenure as the Chair of the AMIA Education Committee (2017-2020), I led the development of a new charter and strategic plan for that committee, including a re-organization of the committee's structure and decision-making processes, to fully reflect the depth and breadth of academic, professional, and in-career educational programs offered or facilitated by AMIA.

Finally, in my role as the founding Chair of the AMIA LEAD Fund Advisory Committee (2017-Present), I have led the development of a strategic plan for philanthropic activities on behalf of AMIA, with a particular emphasis on developing new funding sources that can be invested in growing the diversity of AMIA membership and helping to develop future leaders of the organization.

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

As the Chair of the AMIA LEAD Fund Advisory Committee (2017-Present), I have worked to create a robust and sustainable fundraising program for AMIA that supports necessary programming that can: 1) promote diversity in terms of our membership; 2) support trainee engagement in AMIA events; 3) develop a future generation of AMIA leaders through awards/recognition programs; and 4) allow current informatics professionals to "pay it forward" and help grow the community. The primary investments made by LEAD fund in this capacity have included both support of the "AMIA First Look" program and the provision of student-focused meeting scholarships that enable diverse students with demonstrated financial need to attend AMIA meetings to engage with the AMIA community-of-practice.

In addition, as a current member of the AMIA Board of Directors (2020-Present), I have helped to formulated and implement mission-critical DEI initiatives intended to position the association to respond to the fundamental challenges and opportunities associated with creating and sustaining a diverse, equitable, inclusive, and accessible professional home for all trainees, practitioners, and investigators working in the field of biomedical and health informatics.