

PERSONAL INFORMATION

Bradley Malin

WORK EXPERIENCE

2017 – present

Professor of Biomedical Informatics, Biostatistics, and Computer ScienceVanderbilt University, Nashville, Tennessee, USA, <http://www.vanderbilt.edu>

- Co-Director, Center for Genetic Privacy and Identity in Community Settings (GetPreCiSe) <https://medschool.vanderbilt.edu/getprecise/>
- Co-Director, Health Data Science (HEADS) Center <https://medschool.vanderbilt.edu/heads/>
- Co-Director, Big Biomedical Data Science Ph.D. Program <https://medschool.vanderbilt.edu/heads/phd-program-big-biomedical-data-science>
- Director, Health Information Privacy Laboratory <http://hiplab.mc.vanderbilt.edu/>
- Designed and taught courses on medical data privacy, artificial intelligence, machine learning, and statistical analysis. Lectures from the database privacy course are online at: <http://hiplab.mc.vanderbilt.edu/courses/BMIF380/index.php>

Business or sector Academia

2011 – 2017

2006 – 2011

Associate Professor of Biomedical Informatics and Computer Science**Assistant Professor of Biomedical Informatics and Computer Science**

Vanderbilt University, Nashville, Tennessee, USA

Business or sector Academia

2009 – 2013

U.S. Office for Civil Rights Consultant

U.S. Department of Health and Human Services, Washington, D.C., USA

- Along with federal officials, I organized a public multi-day workshop on the best practices in de-identification for the Privacy Rule of the U.S. Health Insurance Portability and Accountability Act of 1996 (HIPAA)
- Details available at: <https://www.hhs.gov/hipaa/for-professionals/privacy/special-topics/de-identification/2010-de-identification-workshop/index.html>
- Led the drafting of, “Guidance Regarding Methods for De-identification of Protected Health Information in Accordance with the Health Insurance Portability and Accountability Act (HIPAA) Privacy Rule”
- This material has been referenced in numerous reports on de-identification by governments around the world and organizations including the European Medicines Agency guidance on Policy 0070 Details available at: <https://www.hhs.gov/hipaa/for-professionals/privacy/special-topics/de-identification/>

Business or sector Government

2006 – present

Independent Data Privacy Consultant

Nashville, Tennessee, USA

- Provide statistical and scientific anonymisation services to several multi-national companies sharing data under EMA Policy 0070
- Design the de-identification practices and guidance for Project Data Sphere, a not-for-profit initiative to broadly share, integrate and analyze historical, patient-level data from academic and industry phase III cancer clinical trials
- Perform technical data anonymisation support to various companies in the United States, Canada, and Europe. These include, but are not limited to, Amerisource Bergen, Caris, Castlight Health, Clinerion, Flatiron, Google, HealthVerity, Medivo, IntrinsicQ, Nuna Health, Pavir, Practice Fusion, PSKW, Privacy Analytics, and QuintilesIMS
- Developed expert witness testimony for legal trials with focus on medical records de-identification

Business or sector Industry

EDUCATION AND TRAINING

- 2003-2006 **Ph.D. in Computer Science**
Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
- Focus on distributed databases, data privacy, and security
- 2000-2003 **M.Phil. in Public Policy & Management**
Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
- Focus on information systems and economics, with special attention to game theory
- 2000-2002 **M.S. in Computer Science**
Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
- Focus on artificial intelligence, machine learning, and data mining with applications to privacy and security
- 1996-2000 **B.S. in Biological Sciences**
Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
- Focus on molecular genetics and computational biology

ADDITIONAL INFORMATION

- Honours and awards**
- Recipient, 2009 US Presidential Early Career Award for Scientists and Engineers (PECASE), “highest honor bestowed by the United States government on outstanding scientists and engineers in the early stages of their independent research careers” for research in biomedical data privacy technologies. Details at: <https://www.nlm.nih.gov/ep/Malin.html>
 - Recipient, 2014-2015 IBM Smarter Planet Faculty Award focused on data science approaches for hospital readmission prediction after acute events. See https://www.research.ibm.com/university/pdfs/2014_faculty_award_recipients.pdf
- Memberships**
- Elected Fellow, American College of Medical Informatics (ACMI)
- Projects**
- Co-Chair, Privacy and Security Workgroup of the All of Us Cohort Program of the Precision Medicine Initiative of the U.S. National Institutes of Health
 - Member, Open Science Expert Panel, U.S. Patient Centered Outcomes Research Institute (PCORI)
 - Member, 2012-2015 U.S. National Academy of Medicine Committee for the “Management of the Air Force Health Study Data and Specimens”
 - Member, Ethics Advisory Committee of the Immunology Database and Analysis Portal (ImmPort) of the U.S. National Institutes of Health
 - Member of the Selection Committee of the Caspar Bowden Award for Outstanding Research in Privacy Enhancing Technologies Committee, an annual title and cash prize from Microsoft Research
- Citations**
- Research on de-identification and re-identification risks cited in the U.S. Federal Register with respect to the U.S. Health Data Breach Notification Rule. Details at: https://www.ftc.gov/sites/default/files/documents/federal_register_notices/health-breach-notification-rule-16-cfr-part-318/090825healthbreachrule.pdf
- Publications**
- Invited author (with Khaled El Emam) of a white paper commissioned by the U.S. National Academy of Medicine, “ Appendix B: Concepts and Methods for De-identifying Clinical Trial Data” for the 2015 national study, “Sharing Clinical Trial Data: Maximizing Benefits, Minimizing Risk”
- Presentations**
- Testimony on data privacy before the U.S. Commission on Evidence-Based Policy Making (Washington, DC). Details at: <https://www.cep.gov/meetings/2017-02-24.html>
 - Presentation on “De-identification and Clinical Trials Data: Oh the Possibilities” at the U.S. National Academy of Medicine Workshop on Responsible Sharing of Clinical Trial Data (Washington, DC)