

## CURRICULUM VITAE

**Date: November 14, 2022**

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**Date & Place of Birth: January 4, 1962 Kingston, PA, USA**

### **Education:**

1983	Physics	B.S.	California Institute of Technology, Pasadena, CA
1984	Physics	M.S.	University of California, Los Angeles, CA
1990	Theoretical Particle Physics	Ph.D.	University of California, Los Angeles, CA

### **Postdoctoral Training:**

1990-1992	Postdoctoral Fellow, Experimental Particle Physics, University of California, Los Angeles, CA
1992-1994	Staff Scientist, Molecular Genetics and Genomics, The Salk Institute for Biological Studies, La Jolla, CA
1994-1996	Research Associate, Genomics and Bioinformatics, Stanford Human Genome Center, Palo Alto, CA

### **Academic Appointments:**

2018- present	Henry Pickering Walcott Professor of Computational Biology and Bioinformatics; Chair, Department of Biostatistics; Director, Harvard Health Data Science Center, Harvard TH Chan School of Public Health <u>Research Activities:</u> Development of methods in network medicine and systems biology aimed at understanding the multifactorial drivers of human health and disease, identifying disease subtypes and new therapeutic interventions, and exploring differences between the sexes in
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disease etiology and response to therapy; development of open-source software tools supporting research and clinical applications.

Activities: Founding Director/Co-Director, SM Program in Computational Biology and Quantitative Genetics (CBQG); Director, BD2K T32 Training Grant; Director T32 Cancer Training Grant; Founding Co-Director and Executive Committee, Joint Biostatistics and Bioinformatics T32 Training Grant; Director, Harvard Quantitative Biomedical Research Center.

- 2005- present Professor of Biostatistics and Computational Biology, Department of Data Science, Division of Computational Biology, Dana-Farber Cancer Institute;  
Professor of Cancer Biology, Department of Cancer Biology, Dana-Farber Cancer Institute  
Research Activities: Application of genomic technologies and integrative computational analysis to model cellular systems with an emphasis on understanding of human cancers and other diseases; development of open-source software tools supporting research and clinical applications.
- 2005- 2018 Professor of Computational Biology and Bioinformatics, Department of Biostatistics, Harvard TH Chan School of Public Health  
Research Activities: Application of genomic technologies and integrative computational analysis to model cellular systems with an emphasis on understanding of human cancers and other diseases; development of open-source software tools supporting research and clinical applications.  
Activities: Founding Director, SM Program in Computational Biology and Quantitative Genetics (CBQG); Director, BD2K T32 Training Grant; Founding Co-Director and Executive Committee, Joint Biostatistics and Bioinformatics T32 Training Grant.
- 2008- 2018 Director, Center for Cancer Computational Biology, Dana-Farber Cancer Institute  
Research Activities: Integrative approaches to data analysis focused on clinical and translational applications and linking clinical and laboratory data in support of basic research; creation of software tools and systems to support research; overall analytical support for investigative research activities for all Dana-Farber Investigators.
- 2007 – present Adjunct Professor of Bioinformatics, Boston University  
Activities: Mentoring PhD student thesis research.
- 2003- 2005 Professor, Chemical Engineering, University of Maryland  
Activities: Mentoring PhD student thesis research.
- 2002 - 2006 Investigator, The Institute for Genomic Research  
Research Activities: Development and implementation of technology and strategies, including computational methods and software tools,

necessary for functional analysis of the human and other genomes. Analysis of human gene expression in colon tumors using microarrays, rodent models of heart, lung, blood and sleep disorders and gene expression in Arabidopsis. Director of the TIGR Gene Index Project, providing freely available databases and software to estimate gene content in more than 100 organisms.

- 2000- 2005 Professor, Department of Biochemistry,  
The George Washington University  
Activities: Instructor in various courses, curriculum committee for Genomics.
- 1998 – 2005 Lecturer, The Department of Biostatistics,  
The Johns Hopkins University  
Activities: Instructor in the Masters In Biotechnology Program
- 1997 - 2001 Associate Investigator, The Institute for Genomic Research  
Research Activities: Development and implementation of technology and strategies, including computational methods and software tools, necessary for functional analysis of the human and other genomes. Analysis of human gene expression in colon tumors using microarrays, rodent models of heart, lung, blood and sleep disorders and gene expression in Arabidopsis. Director of the TIGR Gene Index Project, providing freely available databases and software to estimate gene content in more than 50 organisms.
- 1997 Assistant Investigator, The Institute for Genomic Research  
Research Activities: Development and implementation of technology and strategies, including analytical methods and software tools, necessary for functional analysis of the human and other genomes.
- 1994 - 1997 Research Associate, Stanford Human Genome Center  
Stanford University  
Research Activities: Project leader for development and implementation of a transposon-mediated strategy for large-scale genomic DNA sequencing including development and implementation of laboratory protocols, analytical methods, computer software, and instrumentation. Mapping, sequencing, and annotating regions of human chromosomes 4 and 21.
- 1992 - 1994 Staff Scientist, The Salk Institute for Biological Studies  
Research Activities: Development of improved methods for DNA sequencing, combinatoric strategies and devices for screening large libraries, simulation and optimization of single pass sequencing strategies including genome sequence sampling. Project director for the STS content mapping of chromosome 11. Development of methods and software tools to support genome mapping.

- 1990 - 1992 Postdoctoral Fellow, Department of Physics  
University of California, Los Angeles  
Research Activities: Research in particle physics, field theory and phenomenology. Founding member of the Antiproton Experiment (APEX) collaboration that set the world's best experimental limit on the lifetime of the antiproton.
- 1987 - 1992 Visiting Lecturer, Department of Physics  
University of California, Los Angeles
- 1984 - 1996 Physics Instructor, Southern California Science Institute  
New College of California
- 1983 – 1990 Teaching Fellow, Department of Physics  
University of California, Los Angeles
- 1983 - 1990 Research Fellow, Department of Physics  
University of California, Los Angeles  
*Thesis Supervisor: E.T. Tomboulis*  
Research Activities: Research in elementary particle physics, mathematical physics, field theory focusing on the development of two-dimensional gauge field theory models and the construction of associated string theory models.

#### **Nonacademic Employment**

- 2011-2014 Co-Founder, CEO and Board Chairman, Genospace LLC  
Activities: Genospace provides software solutions to operationalize precision medicine through the integration of clinical and genomic data and its presentation to clinical and research users in an intuitive format.
- 2014-2017 Co-Founder and Board Chairman, Genospace LLC  
Activities: Genospace provides software solutions to operationalize precision medicine through the integration of clinical and genomic data and its presentation to clinical and research users in an intuitive format. In January 2017, Genospace was sold to the Hospital Corporation of America to support research and to acquire our world-leading solution for clinical trials matching.

#### **Hospital or Affiliated Institution Appointments:**

- 2003 – 2005 Adjunct Professor, Department of Biostatistics  
Bloomberg School of Public Health, The Johns Hopkins University
- 2005- present Professor, Department of Biostatistics and Computational Biology  
Dana-Farber Cancer Institute
- 2014- present Professor, Channing Division of Network Medicine, Brigham and Women's Hospital

**Hospital and Health Care Organization Service Responsibilities:**

- 2005- present Primary research areas are computational and system biology focused on the integration of diverse data types to provide insight into biological processes that drive human disease phenotypes.  
Department of Data Science, Division of Computational Biology,  
Dana-Farber Cancer Institute
- 2014- present Research at the interface of systems biology and pulmonary disease, exploration of how sex and gender affect disease risk, development of methods to better handle sex differences in systems approaches, and advising faculty in their research and the Director in setting directions for future work.  
Channing Division of Network Medicine, Brigham and Women's  
Hospital

**Major Committee Assignments:**

- 1994 National Laboratory Genome Project Visit Review Panel, DOE  
1995 Caltech/BAC Library Construction Site Visit Review Panel, DOE  
1996-1998 Bioinformatics Grant Review Panel, DOE  
1997-2001 Grant Review Panel, DOE  
1997 Hollander Fellowship Review Panel, DOE  
1997 Five-Year Program Advisory Committee, NCRR  
1997 Cancer Chromosome Anatomy Project program Steering Committee, NCI  
1998 National Laboratory Functional Genomic Review Panel, DOE  
1998 Full-Length cDNA Library Construction and Sequencing Advisory,  
Committee, NCI  
1998 Functional Genomics Panel, Wellcome Trust  
1998 Genomics Grant Review Panel, NSF SBIR  
1998 Special Program in Tropical Disease Research Review, UNDP/World  
Bank/WHO  
1999-2000 Low-Dosage radiation Grant Review Panel, DOE  
1999 Bioinformatics Review Panel, NSF  
1999 Special Emphasis Review Panel, NHLBI  
1999 Microarray Working Group Advisory Panel, NIDCR  
1999 Special Emphasis Review Panel, NIMH  
1999 Plant Biology Review Panel, NSF  
1999-2007 Board of Directors, MGED  
2000 Grant Review Panel, NIDA SBIR  
2000 Plant Biology Review Panel, USDA  
2000 Plant Biology Review Panel, NSF  
2000 Exceptional Chromosome Regions Working Group, DOE  
2000 Working Group on US Scientific Interactions, NSF  
2000-2006 Genome/GCAT study section, NIH  
2000-2003 PGA Coordinating Committee, HHLBI  
2000-2003 PGA Bioinformatics Committee, NHLBI

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