



Curriculum Vitae Professor Dr. Eugene Myers

Name: Eugene Myers
Born: 31 December 1953
Family Status: married



Academic and Professional Career

since 2012 Director within the Max Planck Society, Dresden, Germany
2005 - 2012 Group Leader at HHMI Janelia Farm Research Campus, Ashburn, USA
2002 - 2005 Professor of Computer Science at the University of California, Berkeley, USA
1998 - 2002 Vice President for Informatics at Celera Genomics, Rockville, USA
1991 - 1998 Professor of Molecular Biology at the University of Arizona, Tucson, USA
1981 - 1998 Professor of Computer Science at the University of Arizona, Tucson, USA
1975 - 1981 Ph.D. student at the University of Colorado, Boulder, USA
1971 - 1975 B.Sc. student at the California Institute of Technology, Pasadena, USA

Functions in Scientific Societies and Committees (Selected)

2009 Chair, 17th Conf. on Intelligent Systems in Molecular Biology, Stockholm, Sweden
since 2008 Burroughs Welcome Fund, CASI Awards Committee
since 2007 MPI for Computer Science, Saarbrücken, Science Advisory Board
2006 - 2009 Membership Peer Committee (Section 5: Computer Science), NAE
2003 - 2011 ARC Centre in Bioinformatics, U. of Queensland, Advisory Board

- 2003 - 2008 Alan Wilson Centre for Molecular Ecology and Evolution, NZ, External Advisory Panel
- 2003 - 2006 454 Corporation, Science Advisory Board
- 2003 Chair, 11th Conf. on Intelligent Systems in Molecular Biology, Brisbane, Australia
- 2002 Chair, 6th Conf. on Computational Molecular Biology, Washington DC, USA
- 2000 - 2002 Paracel, Science Advisory Board
- 1998 - 2001 International Society for Computational Biology, Board Member
- since 1997 Journal of Computational Biology, Associate Editor
- 1996 Co-chair, 7th Combinatorial Pattern Matching Conference, Laguna Beach, USA
- 1994 - 2005 Bioinformatics, Editorial Board

Honours and Awarded Memberships (Selected)

- 2006 Honorary Doctorate at the ETH, Zurich, Switzerland
- 2006 Member of the German Academy of Sciences Leopoldina
- 2004 Max Planck International Research Prize
- 2003 Membership in the National Academy of Engineering, USA
- 2002 ACM Paris Kannelakis Theory and Practice Award

Major Scientific Interests

I am interested in developing technology and software that will allow us to understand cells and developing cellular collections at the level of particle systems, i.e., each protein is abstracted as a particle with some set of attributes. To this end we design and build light microscopes customized to a particular aim, and image analysis software that extracts quantitative information and models from the data produced by such instruments. We work closely with biologists and biophysicists on particular questions in molecular biology, particularly questions concerning morphogenesis – the orchestration of shape and size.

I am a classically trained computer scientist whose early work was on provably efficient algorithms for a variety of combinatorial problems. In the early 80's I began to focus on algorithms for sequence analysis and DNA sequencing. I am primarily known for the BLAST search engine and advocating and successfully sequencing many genomes including the human genome with a paired-end whole genome shotgun technique.