

Daniel A. Pollard

Biology Department
 Western Washington University
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Education

Doctorate. University of California, Berkeley 2001-2007
 Ph.D in Biophysics with a designated emphasis in Computational & Genomic Biology

Bachelor's. Bowdoin College, Brunswick, Maine 1994-1998
 B.A. in Mathematics with a minor in Biology, *Magna cum laude* honors

Awards & Honors

Research Grant, National Science Foundation (MCB-1517482/MCB-1518314) 2015-2018

DeLill Nasser Award, Genetics Society of America 2014

Postdoctoral Fellow, San Diego Center for Systems Biology, UCSD (5P50GM085764-03) 2011-2014

Fellowship in Biology, National Science Foundation Postdoctoral (DBI-0906031) 2009-2011

Professional Experience

Assistant Professor. Biology Department, Western Washington University 2015-present
 Areas of specialization: Genetics of natural variation in protein production and degradation
 Undergraduate Mentees: Austin Abendroth, Emma Ciechanowski, & Halley Steiner
 Research Assistant Mentees: Ciara Asamoto
 Courses: Genetics, Biometrics, Molecular Mechanisms of Trait Variation
 WWU Collaborations: Dietmar Schwarz (Biology) and Aran Clauson (Computer Science)

Postdoctoral Researcher. University of California, San Diego 2011-2014
 Advisor: Scott A. Rifkin, Division of Biological Sciences, UCSD
 Areas of specialization: Yeast Genetics, Fluorescence Microscopy, Molecular Biology
 Mentees: Homa Ranahmoun (Systems Biology Undergraduate Fellow)
 Courses: Creating an Inclusive Classroom

Postdoctoral Researcher. New York University, New York 2008-2010
 Advisor: Matthew V. Rockman, Biology Department, NYU
 Areas of specialization: *C. elegans* Gene Expression, Quantitative Genetics
 Mentees: Daniel Cohen (Princeton Integrated Science Program)

Instructor. University of California, Berkeley Extension School 2007
 Courses: Introduction to Genetics

Instructor. University of California, Berkeley 2007
 Courses: Introduction to Programming for Bioinformatics

Graduate Student Researcher. University of California, Berkeley 2001-2007
 Advisor: Michael B. Eisen, Molecular Cell Biology Department, UC Berkeley
 Thesis committee members: Montgomery Slatkin & Ian Holmes
 Areas of specialization: Bioinformatics, Evolutionary Genetics, *Drosophila* Development
 Mentees: Genevieve Gould (Currently graduate student at MIT)

Research Assistant. Harvard Medical School 1998-2001
 Advisor: Lewis C. Cantley, Systems Biology Department, Harvard Medical School
 Areas of specialization: Mammalian Cell Culture, Microscopy, Signal Transduction

Professional Development

Participant: Day of Active Learning, University of WA Biology Education Research Group	2015
Participant: Faculty Education Workshop, American Society of Human Genetics	2014
Participant: Association for Biology Laboratory Education Conference	2013
Student: The College Classroom, CIRTl Center for Teaching	2012

Professional Memberships

Society for Molecular Biology & Evolution	2012-present
Genetics Society of America	2005-present

Service & Leadership Experience

Journal and grant reviewer: BMC Bioinformatics, BMC Evolution, BMC Genomics, Evolution, Molecular Biology & Evolution, Molecular Phylogenetics & Evolution, PLoS Computational Biology, Trends in Genetics, Wellcome Trust	2007-present
Academic coordinator: San Diego Center for Systems Biology	2012-2014
Co-founder: STEM Education & Diversity Discussion Group, UCSD	2011-2014
Mentor: California Louis Stokes Alliance for Minority Participation (CAMP) in Science, Engineering and Mathematics, UCSD	2012-2013
Science Advisor: San Diego History Center	2013
Participant: San Diego Lab Management Course, UCSD	2012
Co-founder: Journal Review Discussion Group, Biology Department, NYU	2009-2010
Co-organizer: Computational & Genomic Biology Seminar Series, UC Berkeley	2002-2004

Publications

Pollard DA, Rockman MV (2013). Resistance to Germline RNAi in a *Caenorhabditis elegans* Wild Isolate Exhibits Complexity and Non-Additivity. **G3**, g3.113.005785.

Pollard DA (2012). "Design and Construction of Recombinant Inbred Lines" in **Quantitative Trait Loci (QTL) : Methods and Protocols**. Rifkin SA (Ed). Springer 1:871.

Li XY, MacArthur S, Bourgon R, Nix D, **Pollard DA**, Iyer VN, Hechmer A, Simirenko L, Stapleton M, Luengo Hendriks CL, Chu HC, Ogawa N, Inwood W, Sementchenko V, Beaton A, Weiszmann R, Celniker SE, Knowles DW, Gingeras T, Speed TP, Eisen MB, Biggin MD (2008). Transcription factors bind thousands of active and inactive regions in the *Drosophila* blastoderm. **PLoS Biol** 6(2):e27.

Clark AG*, Eisen MB*, Smith DR*, Bergman CM*, Oliver B*, Markow TA*, Kaufman TC*, Kellis M*, Gelbart W*, Iyer VN*, **Pollard DA***, Sackton TB*, Larracuenta AM*, Singh ND*, Drosophila 12 Genomes Consortium (2007). Evolution of genes and genomes on the *Drosophila* phylogeny. **Nature** 450(7167):203-18.

* Denotes corresponding authors

Pollard DA, Iyer VN, Moses AM, Eisen MB (2006). Widespread Discordance of Gene Trees with Species Tree in *Drosophila*: Evidence for Incomplete Lineage Sorting. **PLoS Genetics** 2:10.

Moses AM, **Pollard DA**, Nix DA, Iyer VN, Li X, Biggin MD, Eisen MB (2006). Large-scale turnover of functional transcription factor binding sites in *Drosophila*. **PLoS Comp Biol** 2:10.

The Honeybee Genome Sequencing Consortium (2006). Insights into social insects from the genome of the honeybee *Apis mellifera*. **Nature** 443, 931-949.

Pollard DA, Moses AM, Iyer VN, Eisen MB (2006). Detecting the Limits of Regulatory Element Conservation and Divergence Estimation Using Pairwise and Multiple Alignments. **BMC Bioinformatics** 7:376.

Moses AM, Chiang DY, **Pollard DA**, Iyer VN, Eisen MB (2004). MONKEY: identifying conserved transcription-factor binding sites in multiple alignments using a binding site-specific evolutionary model. **Genome Biology** 5(12): R98.

Pollard DA, Bergman CM, Stoye J, Celniker SE, Eisen MB (2004). Benchmarking tools for the alignment of functional noncoding DNA. **BMC Bioinformatics** 5(1): 6.

Fruman DA, Mauvais-Jarvis F, **Pollard DA**, Yballe CM, Brazil D, Bronson RT, Kahn CR, Cantley LC (2000). Hypoglycaemia, liver necrosis and perinatal death in mice lacking all isoforms of phosphoinositide 3-kinase p85 alpha. **Nature Genetics** 26(3): p. 379-82.

Scientific Presentations

Invited oral presentations:

Simon Fraser University, Physics Department	2016
Oregon State University, Integrative Biology Department	2016
University of Washington, Genome Sciences Department	2016
City University of New York, Queens, Biology Department	2010
NYU Abu Dhabi, Biology Department	2010
Quantitative Genetics & Genomics Gordon Research Conference	2009
UC Davis, Department of Evolution & Ecology	2007
Bay Area Biosystematists, Berkeley, CA	2007
Society for Molecular Biology & Evolution	2006

Selected oral presentations:

Evolution in Washington, Idaho, British Columbia, and Oregon	2016
Yeast Genetics, Seattle, WA	2014
International <i>C. elegans</i> Meeting	2009, 2011
Evolutionary Biology of <i>Caenorhabditis</i> and Other Nematodes, Sanger Institute, UK	2010
NYU, Biology Department	2009
Cis Sequence Regulation & Its Evolution, RIKEN Center for Developmental Bio, Kobe, Japan	2008
Annual Drosophila Research Conference	2007
Society for Molecular Biology & Evolution	2004

Poster presentations:

Evolution in Washington, Idaho, British Columbia, and Oregon	2016
Mechanisms of Molecular Evolution Gordon Research Conference	2015
Yeast Genetics, Seattle, WA	2014
Society for Molecular Biology & Evolution	2013, 2003
Systems to Synthesis, Salk Institute, San Diego, CA	2012
RECOMB Regulatory Genomics & Systems Biology	2009
Quantitative Genetics & Genomics Gordon Research Conference	2007
Molecular Evolution Gordon Research Conference	2006, 2008
Annual Drosophila Research Conference	2005-2006