DeannaMChurch

Genomics and Bioinformatics Leader

contact

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languages

english, mother tongue

Genomics

Genome editing, Genome assembly, Genome annotation, variant analysis, & Single-cell 'omics

Bioinformatics

Python, R, HTML, XML/XSLT, Javascript, CSS3, SQL & Perl

focus

Leading interdisciplinary teams using genomics and computation to accelerate biological discovery.

experience

2019-2021

Driving customer voice and commercialization of our mammalian editing platform. Ensuring our softwar

2014-2016

2001-2014

1990-1992

education

1999-2001 **National Center for Biotechnology Information, NIH** Bethesda, MD
Postdoctoral fellow Coordinated mouse genome resources.

1997-1999 **Laboratory of Janet Rossant, Mt. Sinai Hospital** Toronto, Ontario
Postdoctoral fellow Applying genomics methods to understanding mouse developmental biology

1992-1997 **PhD** of Biological Sciences The University of California, Irvine
Phenotype-genotype correlation in the Cri-du-Chat region of chromosome 5

1986-1990 **Bachelor** of Liberal Arts University of Virginia
Research project focused on cell cycle regulation using yeast

additional training

2010	**Client-Side Web Development**	University of Illinois (O'Reilly)
2009	**XSLT/XPATH: Introduction and Syntax**	Mulberry Technologies
2007	**Introduction to XML**	University of Illinois (O'Reilly)

advisory boards and professional service

2018-present	**Genome Quebec**	Scientific Advisory Board
2012-present	**Ensembl**	Scientific Advisory Board
2013-2016	**The Genome Analysis Center/Earlham Institute**	Scientific Advisory Board
2010-2014	**Database of Genomic Variants**	Scientific Advisory Board
2010-present	**American Society of Human Genetics**	Member
2008-2013	**Advances in Genome Biology and Technology**	Organizing Committee Member
2008-2013	**International Standards Cytogenomic Arrays**	Committee Member
2008-2012	**International Mammalian Genome Society**	Nomenclature Committee Member
2004-2012	**International Mammalian Genome Society**	Member
2006-2011	**European Conditional Mouse Mutagenesis Program**	Scientific Advisory Board
2006-2009	**Genome Canada-MORGEN project**	Scientific Advisory Board
2005	**Mouse Genome Finishing Meeting**	Organizer

awards

2012 **Special Service Award** — National Library of Medicine
For extraordinary effort in providing access to the 1000 genomes project data.

1997-1999 **Human Frontiers Postdoctoral Fellowship** — Mt. Sinai Hospital
Awarded to early career scientist to enable them to broaden their skills in a new country.

1986-1990 **Echols Scholar** — University of Virginia
Awarded to select undergraduates who exhibit academic independence.

presentations

2018-Feb **Beckman Symposium, Technology Innovation and Human Genomics** Palo Alto, CA
Invited Speaker, "The impact of technology on our view of biology"

2018-Jan **Polyploid Genome Workshop** San Diego, CA
Invited Speaker, "Linked-Reads for haplotype reconstruction and improved de novo assembly"

2017-Nov **Australasian Genomic Technologies Association Annual Meeting** Hobart, AUS
Keynote, "High resolution biology with 10x"

2017-Nov **Australasian Genomic Technologies Association Annual Meeting** Hobart, AUS
Keynote, "The impact of technology on biology"

2017-Apr **NGS Barcelona** Barcelona, SP
Keynote, "Advancing genomics drop by drop"

2017-Feb **Advance in Genomics and Biotechnology** Hollywood, FL
Abstract Selected, "More complete genome analysis"

2017-Jan **Personalized World Medicine Conference** Palo Alto, CA
Speaker, "Expanding the reach of genomic analysis"

2017-Jan **Plant and Animal Genome Conference** San Diego, CA
Invited Speaker, "Quantitative profiling of large and complex populations by single cell RNA-sequencing"

2017-Jan **Plant and Animal Genome Conference** San Diego, CA
Invited Speaker, "Using Linked-Reads to enable efficient de novo, diploid assembly"

2016-Oct **American Society of Human Genetics** Vancouver, CA
Abstract Selected, "De novo assembly of individual human haplotypes from diploid samples"

2016-Oct **Genome Reference Consortium Workshop** Vancouver, CA
Invited Speaker, "Everyday de novo assembly"

2016-Sep **Genome Informatics** Hinxton, UK
Abstract Selected, "Improving genome analysis using Linked-Reads"

2016-Aug **Cancer Genomics Consortium** Denver, CO
Invited Speaker, "Complete genome analysis"

2016-May **Sequencing and Finishing in the Future** Santa Fe, NM
Abstract Selected, "Improving genome analysis using Linked-Reads"

2016-May **Rady Symposium** San Diego, CA
Invited Speaker, "Advancing Precision Medicine with Linked-Reads"

2016-Feb **Stanford Big Data in Genomics** Palo Alto, CA
Invited Speaker, "Truly personalized genomics"

2015-Oct **Genome informatics** Cold Spring Harbor, NY
Invited Speaker, "The Rumsfeldian challenge of developing clinical sequencing tests"

2015-May **The 11th International Workshop on Advanced Genomics** Tokyo, JP
Speaker, "Dissecting the diagnostic yield in exome sequencing"

2015-Mar **American College of Medical Genetics Annual Meeting** Salt Lake City, UT
Invited Speaker, "Technical limitations of variant identification and annotation"

2015-Feb **Advance in Genomics and Biotechnology, Pacific Biosciences Workshop** Marco Island, FL
Invited Speaker, "Finishing genomes, why does it matter"

2014-Nov **Biological Data Sciences** Cold Spring Harbor, NY
Keynote Speaker, "Analog reporting in a digital age"

2014-Oct **American Society of Human Genetics** San Diego, CA
Abstract Selected, "The impact of GRCh38 on clinical sequencing"

2014-May **Sequencing and Finishing in the Future** Santa Fe, NM
Abstract Selected, "Dissecting the missing diagnostic yield in exome sequencing"

publications

articlearticle in peer-reviewed journal

bookbooks

miscother publications

reportresearch reports