DeannaMChurch

Genomics and Bioinformatics Leader

contact

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languages

english mother tongue

Genomics

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 improve human health.

experience

2016-Present 10x Genomics

Senior Director of Applications

Lead an interdisciplinary team of top rate scientists in demonstrating the scientific value of the full 10x product suite. This work covered a variety of scientific areas including genome assembly, analysis, tumor microenvironment analysis, tumor heterogeneticy and immune profiling.

Pleasant, California

Menlo Park, CA

Bethesda, MA

Boston, MA

2014-2016 **Personalis, Inc**

Senior Director of Genomics and Content

Lead a team developing novel genome analysis pipelines and building knowledge systems to support genome interpretation.

2001-2014 National Center for Biotechnology Information, NIH

Staff Scientist

Lead a team of biologists and software developers in developing databases and tools to make genomic data accessible to the scientific community. Participated in numerous international collaborations including helping to found the Genome Reference Consortium, the group tasked with maintaining the human reference assembly.

1990-1992 MIT and MGH

Laboratory Technician

Managed laboratory and performed experiments, including helping to develop the exon amplification protocol.

education

1999-2001	National Center for Biotechnology Information, NIH Postdoctoral fellow Coordinated mouse genome re	Bethesda, MD Sources.
1997-1999	Laboratory of Janet Rossant, Mt. Sinai Hospital Postdoctoral fellow Applying genomics methods to velopmental biology	Toronto, Ontario understanding mouse de-
1992-1997	PhD of Biological Sciences Phenotype-genotype correlation in the Cri-du-Chat	The University of California, Irvine region of chromosome 5
1986-1990	Bachelor of Liberal Arts Research project focused on cell cycle regulation uses	University of Virginia

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	For extraordinary effort in providing access to the 10	National Library of Medicine 000 genomes project data.
1997-1999	Human Frontiers Postdoctoral Fellowship Awarded to early career scientist to enable them to be country.	Mt. Sinai Hospital proaden their skills in a new
1986-1990	Echols Scholar Awarded to select undergraduates who exhibit acade	University of Virginia demic independence.

presentations

2018-Feb	Beckman Symposium, Technology Innovation and Human Genomics 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 Keynote, "High resolution biology with 10x" Hobart, AUS
2017-Nov	Australasian Genomic Technologies Association Annual Meeting Keynote, "The impact of technology on biology" Hobart, AUS
2017-Apr	NGS Barcelona Barcelona, SP Keynote, "Advancing genomics drop by drop"
2017-Feb	Advance in Genomics and Biotechnology Abstract Selected, "More complete genome analysis" Hollywood, FL
2017-Jan	Personalized World Medicine Conference Speaker, "Expanding the reach of genomic analysis" Palo Alto, CA
2017-Jan	Plant and Animal Genome Conference Invited Speaker, "Quantitative profiling of large and complex populations by single cell RNA-sequencing"
2017-Jan	Plant and Animal Genome Conference Invited Speaker, "Using Linked-Reads to enable efficient de novo, diploid assembly"
2016-Oct	American Society of Human Genetics Abstract Selected, "De novo assembly of individual human haplotypes from diploid samples" Vancouver, CA
2016-Oct	Genome Reference Consortium Workshop Invited Speaker, "Everyday de novo assembly"
2016-Sep	Genome Informatics Abstract Selected, "Improving genome analysis using Linked-Reads" Hinxton, UK
2016-Aug	Cancer Genomics Consortium Invited Speaker, "Complete genome analysis" Denver, CO
2016-May	Sequencing and Finishing in the Future Abstract Selected, "Improving genome analysis using Linked-Reads" Santa Fe, NM
2016-May	Rady Symposium San Diego, CA Invited Speaker, "Advancing Precision Medicine with Linked-Reads"
2016-Feb	Stanford Big Data in Genomics Invited Speaker, "Truly personalized genomics" Palo Alto, CA
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 Speaker, "Dissecting the diagnostic yield in exome sequencing" Tokyo, JP
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 sequenc-

ing"

publications