

contact

3538 22nd St.
Boulder, CO 80304
USA



(301) 233-2991

deanna.church@gmail.com



@deannachurch



in://deannachurch



gh://deannachurch

leadership skills

Empathy, Communication,
Mentorship, Team Player,
Curiosity, Initiative &
Strategic and
Critical Thinking

product skills

Product commercialization,
Product managements,
Applications &
Writing and presentations

genomics

Genome assembly,
Genome annotation,
Variant analysis,
Functional genomics &
Genome editing

bioinformatics

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

languages

english

focus

Leading interdisciplinary teams that match new technology to research needs.

experience

2021–2022

Inscripta, Inc

Boulder, CO

Vice President, Mammalian Business Area and Software Strategy

Reporting to the CEO, I established customer software requirements and drove changes required to allow the business to scale from 10s of genomes to 1000s of genomes. Continued refining customer requirements to align with technical challenges and product schedule. Led a functional genomics team to establish single cell measurements to accelerate product development. Led a Data Science team developing new analysis methods critical for customer success. Drove writing and analysis for a critical manuscript to assist customers in understanding the data generated by our product.

2019–2021

Inscripta, Inc

Boulder, CO

Senior Director, Applications Mammalian

Reporting to the CEO, I established customer requirements for the mammalian platform. Communicated requirements to a multidisciplinary product team. Contributed to three patents critical for application success.

2016–2018

10x Genomics

Pleasant, CA

Senior Director of Applications

Led a team of bench and computational scientists charged with demonstrating the value of the 10x platforms. In close collaboration with customers we published 14 manuscripts across the product portfolio. Presented at over 25 conferences and meetings, including two keynote presentations, leading to wide spread adoption of our products.

2014-2016

Personalis, Inc

Menlo Park, CA

Senior Director of Genomics and Content

Led a team developing novel genome analysis algorithms and pipelines and knowledge bases built to support genome interpretation. This automation cut variant interpretation time by half. Worked collaboratively with other groups and government agencies to establish best practices for genome analysis and interpretation.

2001-2014

National Center for Biotechnology Information, NIH

Bethesda, MA

Staff Scientist

Founding member of the Genome Reference Consortium, the group responsible for maintaining the human reference assembly, as well as reference assemblies for other organisms. Led the development of the Assembly Archive and the dbVar structural variation databases. Worked closely with clinical collaborators to drive changes in standards for structural variant detection, leading to the ISCA database, and ultimately ClinVar.

education

1999-2001	National Center for Biotechnology Information, NIH <i>Postdoctoral fellow</i>	Bethesda, MD
1997-1999	Laboratory of Janet Rossant, Mt. Sinai Hospital <i>Postdoctoral fellow</i>	Toronto, Ontario
1992-1997	PhD of Biological Sciences <i>Phenotype-genotype correlation in the Cri-du-Chat region of chromosome 5</i>	The University of California, Irvine
1986-1990	Bachelor of Liberal Arts <i>Research project focused on cell cycle regulation using yeast</i>	University of Virginia

advisory boards and professional service

2020-present	Human Pangenome Reference Consortium	Scientific Advisory Board
2018-2022	Genome Quebec	Scientific Advisory Board
2018-2020	American Association for Cancer Research	Member
2012-2019	Ensembl	Scientific Advisory Board
2014-2016	American College of Medical Genetics	Member
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

presentations

Selected highlights from over 50 presentations.

2019-Nov	Rosalind Franklin Society Invited Speaker, "The impact of technology on our view of biology"	Philadelphia, PA
2018-Feb	Beckman Symposium, Technology Innovation and Human Genomics Invited Speaker, "The impact of technology on our view of biology"	Palo Alto, CA
2017-Nov	Australasian Genomic Technologies Association Annual Meeting Keynote, "The impact of technology on biology"	Hobart, AUS
2016-Feb	Stanford Big Data in Genomics Invited Speaker, "Truly personalized genomics"	Palo Alto, CA
2015-Oct	Genome informatics Invited Speaker, "The Rumsfeldian challenge of developing clinical sequencing tests"	Cold Spring Harbor, NY
2014-Nov	Biological Data Sciences Keynote Speaker, "Analog reporting in a digital age"	Cold Spring Harbor, NY
2013-Oct	American Society of Human Genetics Invited Speaker, "Navigating clinical genomic resources at NCBI"	Boston, MA
2013- May	Sequencing Finishing and Analysis in the Future Keynote Address, "Keep calm and carry on sequencing"	Santa Fe, NM
2011-Jul	BIO-IT APAC Conference and Expo Keynote Speaker, "The evolution of the reference human genome"	Shenzhen, China

teaching

Selected courses and lectures.

2017	Stanford, Informatics in Industry Prepared lecture for 50 students.
2013	54th Annual Short Course on Medical and Experimental Mammalian Genetics Prepared 6 hours of lecture and online tutorials for 75 students.
2012, 2008	Genome Reference Consortium Workshop at ASHG Prepared 4 hours of lecture on the human reference assembly for 250 people.
2011-2012	Frontiers in Reproduction Prepared 4 hours of lecture on online tutorials for 25 students.
2003-2012	International Mammalian Genome Conference Co-organized and prepared 4 hours of lecture and online tutorials for 50-75 students.
2008	NIDA Short Course on Genetics and Epigenetics Prepared 2 hours of lecture for 100 students
2004-2005	AGBT workshop Prepared 1 hour lecture for the pre-meeting workshop.
2003-2005	The Jackson Laboratory Bioinformatics for Bench Scientists Co-organized this two week course to introduce bench scientists to bioinformatics.

publications

Articles

Preprints