

Warren (Trey) C. Lathe III, Ph.D.

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Full Stack Skills

- HTML, CSS, Javascript
- mySQL, jquery, Sequelize
- MERN (MongoDb, Express, React, Node.js)
- Various frameworks and technologies

Other Skills and Expertise

- Organizational Management
- Entrepreneurship
- Grant Writing/Management
- Diversity, Inclusion and Broadening Participation Expertise
- Speak Conversational Korean and German

Experience

Consultant November 2017 - Present

OpenHelix | San Francisco, CA

**Organizational Consultant for various organizations:*

-Plan, Organize and Run Congressional Maker Faire in D.C. for Congressional Maker Caucus and Nation of Makers to further awareness and inclusion of tech and science in the US for US representatives, staff and others.

-Plan, Organize and teach several workshops on the science and issues behind direct-to-consumer DNA testing through Somerville Skillup grant.

Executive Director October 2014 – November 2017

Maker Education Initiative (Maker Ed) | Oakland, CA

**Non-profit Executive.* Developed and managed an STEM educational non-profit to greater than 2fold growth of the size, impact and revenue of the organization while increasing focus on mission and expanding equity and inclusion work.

AAAS Science and Technology Policy Fellow and Science Expert September 2012 – November 2014

National Science Foundation (NSF) | Arlington, VA

**Support, consult for and manage NSF programs that award over 20-40 million dollars annually to broaden participation and equity in science education.*

Chief Scientific Officer/Co-Owner *May 2003 – August 2012***OpenHelix, LLC** | San Francisco, CA

Co-founded and co-owner of a successful, profitable genomics and computational biology workforce training company. In addition to the executive and budgetary functions required of a co-owner, as CSO directed a team of scientists to develop and deliver a computational biology curriculum to graduate students and academic, government and corporate research scientists. Served as principal investigator on two NIH (National Institutes of Health) research grants developing online courses and managed research and evaluation of the efficacy of onsite and synchronous or asynchronous online courses. Successfully sold company in 2014.

Research Scientist *January 1999 – December 2002*

European Molecular Biology Laboratory | Heidelberg, Germany

Conducted computational biology and genomics research focusing on the evolution of bacterial gene order and Human variation as it relates to protein structure.

Education**University of California, Berkeley Extension****Certificate:** Full Stack Coding**University of Rochester, Rochester NY****Ph.D.** Molecular Biology and Evolution**M.S.** Molecular Biology and Evolution**Brigham Young University, Provo UT****B.S.** Zoology, **B.A.** Art History**Volunteer and Additional Experience****Court Appointed Special Advocate (CASA)** *September 2017 – 2023*

San Francisco CASA | San Francisco, CA

CASA (Court Appointed Special Advocate). Court appointed to work for a single foster youth in the system, advocating for their social, health, educational and other needs and their best interests.

Organizer and Volunteer *May 2013-May 2015*

Refugee Youth Project | Baltimore, MD

Developed and managed a STEM engagement program (RYP STEP) for groups of 12 to 60 refugee middle and high school youth at two locations, Baltimore and Catonsville MD, as part of the Refugee Youth Project.

Board Trustee *September 2009 – August 2013*

The San Francisco School Board of Trustees | San Francisco, CA

Two terms as an elected trustee of an independent K-8 school. In addition to fiduciary and budgetary duties, was an instrumental member of the Diversity Committee that implemented policies and activities to ensure diverse faculty and student populations. Founding member of the Financial Sustainability committee.

Teaching Experience *Continuous*

Various organizations | San Francisco, CA, Seoul Korea, Heidelberg Germany, Rochester NY, Casablanca Morocco and more.

In addition to teaching experiences above, experience includes developing and teaching an afterschool program “Biology through Cooking” for 3rd-5th grades (2008-2011) and developing courses and teaching genetics & genomics online and onsite to students in Africa (2010-2012), teaching Korean & English and much more.

Partial Publication List

- For pre-2011 publications see: <http://bit.ly/wclathepublications>
- Internal NSF publications including “Inclusion in MOOCs and online learning. A guide for project officers” and others.
- Directed publications for various projects for Maker Ed: <https://makered.org/resources/publications/>

References Upon Request