

Mark A. Urich
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PERSONAL

I am a problem solver at heart; I enjoy spending hours fixing things and solving puzzles. After over 8 years of working in an academic research lab, generating mountains of genomic data, I decided to change course and pursue a field that allows me to make better use of my passion. I began a career in research with the goal to continuously expand my knowledge and the collective knowledge of humanity. With the amount of data being produced these days, I feel that I can accomplish that goal better through software engineering.

RECENT PROJECTS

Anno-JR: Anno-J on Rails

An app for creating and managing sequencing data browsers with Anno-J.

Source: <https://github.com/maalur/anno-jr>

Schmitz Lab Website

A personal website, built with Rails, designed and developed for a former colleague's research lab.

<http://schmitzlab.genetics.uga.edu/>

Twitter Clone

A Twitter clone, built with Ruby on Rails and Bootstrap.

<https://afternoon-savannah-4285.herokuapp.com/> Source: https://github.com/maalur/sample_app

SKILLS

Ruby, Ruby on Rails, Javascript, Coffeescript, Backbone.js, jQuery, SQL, HTML, CSS, Sass

EDUCATION

2009-2011, AS, Grossmont College, Mathematics

Emphasis in biotechnology; Relevant coursework: linear algebra and differential equations.

2005-2010, AS, Cuyamaca College, Biology

Emphasis in biotechnology; Relevant coursework: C++ and Java programming.

EMPLOYMENT

2013-present, SEQUENCING CONSULTANT

Offered DNA, RNA, and MethylC-seq library preparation services, training, and consulting.

2010-2013, LAB TECHNICIAN, The Salk Institute for Biological Studies, Ecker Lab, La Jolla, CA

Studied the role of DNA methylation through high-throughput DNA sequencing. Lead the lab in designing, developing, and enhancing protocols for high-throughput sequencing. Supplied training and support for students and colleagues. Performed key sequencing experiments for a number of research projects, including:

- **1001 Genomes/Epigenomes:** <http://www.1001genomes.org/>
- **NIH Roadmap Epigenomics Mapping Consortium** <http://www.roadmapepigenomics.org>
- **Mouse ENCODE:** <http://www.mouseencode.org/>

2009, TUTOR, Grossmont Union High School District, La Mesa, CA

Tutored students in Chemistry and Physics as part of the after school ASPIRE program.

2005-2010, LAB ASSISTANT, The Salk Institute for Biological Studies, Ecker Lab, La Jolla, CA

Studied ETHYLENE-INSENSITIVE5 and its role as a 5' to 3' exoribonuclease.

PUBLICATIONS

A list of my current publications can be found on my Google Scholar page:

<http://scholar.google.com/citations?user=ZxwExtQAAAAJ>