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 while solving meaningful problems. With the amount of data being produced these days, I feel that I can accomplish that goal better through software engineering.

RECENT PROJECTS

BaseSpace Ruby Wrapper

An early work in progress to create an API wrapper for Illumina's BaseSpace API, written in Ruby.
Source: https://github.com/maalur/basespace-ruby

Anno-JR: Anno-J on Rails

An app for creating and managing genomic sequencing data browsers with Anno-J.
https://serene-river-8276.herokuapp.com/   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/

SKILLS

Ruby, Ruby on Rails, Javascript, Coffeescript, 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

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-INSENSITVE5 and its role as a 5' to 3' exoribonuclease.

PUBLICATIONS

I currently have one first authorship publication and 12 co-authorships, many of them in top tier journals.
A list of my current publications and information on them can be found on my Google Scholar page:
http://scholar.google.com/citations?user=ZxwExtQAAAAJ