

# Lauren Madigan



<https://lmadigan.github.io/portfolio>



[www.linkedin.com/in/laurenmadigan](http://www.linkedin.com/in/laurenmadigan)



[www.github.com/lmadigan](http://www.github.com/lmadigan)



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## SKILLS

Ruby/ Rails, JavaScript, JQuery, AJAX, React.js, Redux, HTML5, CSS3, Python, Django, PostgreSQL, Webpack, API Integration, Git/Github, Heroku, OAuth Authentication, RESTful APIs, MVC Framework, Full Stack Web Development

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## PROJECTS

### Trails500 (PostgreSQL, Rails, React.js)

[live](#) [github](#)

- Extracted image metadata to find geolocation of uploaded images
- Hand-wrote User Authentication using BCrypt
- Incorporated Google Maps API and Cloudinary API

### Airbnb Yelp Overlay Chrome Extension (CSS, HTML, Javascript)

[live](#) [github](#)

- Parsed through Airbnb page content to find geolocation
- Queried Yelp API by location, popularity, and term
- Generated a Google Map with Airbnb rental surrounded by top 20 Yelp listings within a 1 mile radius

### Inheritance (Django, Python, React.js)

[live](#) [github](#)

- Created to allow recent increase in genetic information to be easily available to the general public
- Integrated Google Maps API to create a visually pleasing distribution of genetic information
- Parsed through genetic information from SNPedia by location and ethnic group

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## PUBLICATIONS

Kevin Larsen, Lauren Madigan & Elisabetta Viani Puglisi. (2017). Rapid purification of native mammalian tRNALys3. *RNA Journal*. (up for review)

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## EXPERIENCE

### Structural Biology Research Technician - Stanford University

October 2015 - October 2016

- Integral member of the research team focused on determining the structure of the HIV reverse transcription initiation complex
- Developed innovative new system for monitoring enzyme activity during nucleotide incorporation by HIV Reverse Transcriptase
- Implemented an HIV RT Activity Assay new to the lab

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## EDUCATION

### App Academy

Web Development, November 2016

### International School of Biological Magnetic Resonance - Erice, Sicily

May 2016

- Selected as one of the top 40 applicants in the field of molecular biophysics
- Attended a week-long intensive course with lectures given by Nobel Prize winners from around the world

### California Polytechnic State University

BS Biological Sciences, December 2015

D1 Track and Field Athlete