

# Ryan J. Eveloff

New Graduate | Bioinformatics and Big Data Analytics

La Jolla, CA

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**Email:** rjveloff@gmail.com

**Languages:** English, French

**Citizenship:** American

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## Academic History

Jan. 2022 to Present

**Master of Science, University of California, San Diego**

*Computer Science (M.S.)*

4.0 GPA

Specializing in Machine Learning as it pertains to bioinformatics problems. In particular, designing novel mutation models for whole-genome sequences.

Relevant Coursework:

- Learning Algorithms
- Statistical NLP
- Neural Language Models
- Deep Generative Models

Sep. 2017 to Dec. 2021

**Bachelor of Science, University of California, San Diego**

*Computer Science spec. Bioinformatics (B.S.)*

3.6 GPA

Relevant Coursework:

- Brain-Computer Interfaces
- Advanced Data Structures
- Molecular Sequence Analysis
- Artificial Intelligence Algorithms
- Advanced Bioinformatics Lab
- Biological Databases
- Independent Study in Medicine

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## Professional Experience

Jan. 2022 to Present

**Gymrek Lab**  
*Graduate Researcher*

Using statistical and neural methods to decode the meaning of DNA at the genome-wide scale. Contributing to TRTools code base and implementing new features in parallel.

Jun. 2021 to Present

**Avail Bio**  
*Bioinformatics Consultant*

Developing libraries for immunotherapy treatments using applied graph theory, neural networks, and big-data processing pipelines.

May 2021 to Present

**Pevzner Lab**  
*Editor*

Actively editing for the fourth edition of *Bioinformatics Algorithms: An Active Learning Approach*, namely rewriting problem statements, test cases, and accompanying code base.

Sep. 2019 to Sep. 2021

**J. Craig Venter Institute**  
*Genomic Medicine and Infectious Diseases*  
*Undergraduate Research Fellow*

Investigated oral-systemic chronic inflammatory pathways, predominantly through salivary proteomics, to better quantify and classify chronic inflammatory diseases. Single-cell sequencing and microscopy to determine neutrophil differentiation pathways.

Jun. 2019 to Sep. 2019

**J. Craig Venter Institute**  
*Genomic Medicine and Infectious Diseases*  
*Intern*

Evaluated baseline inflammatory levels in the American population using big-data analysis and Bayesian models.

Jun. 2018 to Sep. 2018

**Amazon**  
*Data Science + QA Intern*

Built automation tools to assist customer support and sales teams and oversaw hardware QA for a number of soon-to-launch devices.

Jun. 2017 to Sep. 2017,  
Jun. 2016 to Sep. 2016

**Ring**  
*Software Engineering Intern*

Built a lead acquisition pipeline for the Neighborhoods team and used naive clustering algorithms to optimize prioritization of significant community assets.

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## Organizations and Leadership

Jun. 2020 to Present

**NeuroTech at UCSD**  
*June 2020-March 2021: Community and Design Chair*  
*March 2021-January 2022: President*  
*January 2022-Present: Graduate Advisor*

Sep. 2019 to Present

**ACM Cyber (Cybersecurity Group at UCSD)**  
*Founding Board Member; in absentia June 2020 to Present*

Aug. 2015 to Jun. 2016

**Girls Who Code**  
*Instructor*

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## Awards and Honors

Fall 2021,  
Spring 2021,  
Winter 2021,  
Winter 2020,  
Fall 2020,  
Spring 2019

**Provost Honors**  
*Warren College*

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## Publications

February 2021

**The Impact of Oral-Gut Inflammation in Cerebral Palsy**  
*Frontiers in Immunology*

Ferreira, A. C., Eveloff, R. J., Freire, M., & Santos, M. T.  
*10.3389/fimmu.2021.619262*

January 2021

**Impaired host response and the presence of *Acinetobacter baumannii* in the serum microbiome of type-II diabetic patient**  
*Cell Press (iScience)*

Perera, D., Kleinstein, S. E., Hanson, B., Hasturk, H., Eveloff, R., Freire, M., & Ramsey, M.  
*10.1016/j.isci.2020.101941*

May 2020

**Inflammatory Networks Linking Oral Microbiome with Systemic Health and Disease**  
*Journal of Dental Research*

Kleinstein, S. E., Nelson, K. E., & Freire, M.  
*10.1177/0022034520926126*

Acknowledged for analysis and data visualization.

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## Posters and Talks

September 2022  
*Poster*

**Characterization of polymorphic short tandem repeats in HS rats**  
*CTC-RG*

Eveloff, R., Wu, C., Chen, D., Munro, D., Palmer A., Gymrek, M.

August 2019  
*Poster*

**C-Reactive Protein as a Marker for Oral-Systemic Inflammation**  
*J. Craig Venter Institute Intern Poster Competition - 2nd Place*

Eveloff, R., Kleinstein, S., Shah, N., Freire, M.