JASMIN MAE RIZKO

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Experienced Biomedical Engineering PhD candidate looking for exciting opportunities in research & industry.

EXPERIENCE

UNIVERSITY OF SOUTHERN CALIFORNIA; MARMARELIS LAB; Los Angeles, CA *June 2022 – January 2026*
Biomedical Engineering PhD Candidate

- Lead advanced statistical modeling of large dataset in multi-institutional collaboration.
- Design and launch original clinical study, from IRB approval to enrollment (21 participants).
- Perform linear and nonlinear modeling for dissertation/publication.
- Produce a first-author publication and ongoing second manuscript, and present research findings to peers at 2 international conferences and 3 graduate-level symposiums.
- Create lesson plans, host Office Hours, grade homework/exams, and co-teach Signals and Systems Analysis course (BME 513) over the Spring 2022 and Fall 2025 semesters.

HELIX; San Mateo, CA
Product Manager *March 2022 – June 2022*

- Coordinated 3 cross-functional Agile teams, onboarded new engineers, and supported launch of 2 new sequencing pipelines.
- Functioned as scrum master across 3 teams, ensuring 90%+ completion of deliverables and 100% adherence to project timelines.

Associate Bioinformatics Product Manager *February 2020 – March 2022*

- Functioned as scrum master for Bioinformatics team; aligned projects with regulatory requirements; maintained documentation.
- Delivered SNP reports supporting internal research and Exome+ white papers through 3 new assay releases.

Bioinformatics Analyst *September 2018 – February 2020*

- Analyzed Exome+ sequencing data to inform product decisions and research initiatives.
- Queried SQL databases and evaluated CRAM/BCF files for errors, coverage, and quality.
- Supported FDA approval of the Helix Exome+ sequencing platform through data analysis.

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA, Viterbi School of Engineering; Los Angeles, CA
Doctor of Philosophy*,* Biomedical Engineering (GPA: 3.89) *January 2026*

- Contributed to 3 original publications and authored 1 first-author publication.
- Participated in Grodins Symposium 2023, 2024, and 2025, and won 3rd place award for Best Poster in 2025.
- Presented 2 abstracts (oral and poster presentation, respectively) describing original research at CARNet 2025 conference.

Master of Science, Medical Device and Diagnostic Engineering *January 2021 – June 2022*

HARVEY MUDD COLLEGE; Claremont, CA *May 2018*
Bachelor of Science

SELECTED PUBLICATIONS

Rizko, JM, Beishon, LC, Panerai, RB, Marmarelis, VZ. (2024), 'Cognitive activity significantly affects the dynamic cerebral autoregulation, but not the dynamic vasoreactivity, in healthy adults', *Frontiers in Physiology*.

Marmarelis, VZ, Chui, HC, Billinger, SA, Joe, EB, Shin, D, Hashem, S, **Rizko, JM,** et al. (2024), 'A simple measure of voluntary control of breathing is an effective physio-marker for differentiating MCI from mild AD patients and MCI/AD patients from cognitively normal controls', *Alzheimer's & Dementia*.

Marmarelis, VZ, Chui, HC, Billinger, SA, Joe, EB, Shin, D, Hashem, S, **Rizko, JM,** et al. (2024), 'Physio-markers based on predictive models of cerebral hemodynamics yield accurate diagnosis of cognitive impairment and differentiate MCI from AD', *Alzheimer's & Dementia*.

SKILLS

Programming Languages	Bash • Python • MATLAB • R • C++
Computer Skills	Confluence • JIRA • JAMA • SQL • Jupyter • Microsoft Office • Google Suite
Spoken Languages	English • French • Arabic
Interests	Artificial Intelligence & Machine Learning