TAMARA JAFAR

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EDUCATION

University of Southern California, ***PhD*** *in Computational Neuroscience* Present
University of California, Berkeley, ***BS*** *in Biology,* ***BA*** *in Public Health*
Minor in Human Centered Design; Certificate in Science, Technology, and Society
Skills: Python, Matlab, Rstudio, Redcap Database, SevenBridges, Excel, CAD, Unity, Fusion 360, EPIC, 3D Slicer, Figma, Illustrator
Relevant Coursework: USC Marshall Venture Lab, Yale SOM Startup Founder Studies, Berkeley HAAS Innovation and Design

PROFESSIONAL EXPERIENCE

University of Southern California, *Graduate Research Fellow* **Present**
- Computational neuroscience doctoral student in Dr. Andrei Irimia's lab integrating interpretable deep learning, genomics, and neuroimaging to study risk factors of Alzheimer's disease

AtlasXomics Inc., *Bioinformatics Scientist and Business Development West Coast Lead* **2022-2023**
- Yale Bioengineering spin-out of Dr. Ron Fang's research
- Developing novel discovery platform to provide clinicians and researchers multi-omics tissue atlases
- Create multi-omic maps (proteomics, transcriptomics, and epigenomics) in tissue at cellular resolution using our AtlasBrowser and AtlasXplorer technology. Analyze data to create bioinformatics reports to communicate findings to clinicians and researchers
- Pitched to investors, met with clients, potential customers, and research labs

Nucleate Los Angeles, *Co-Director of Curriculum* **2023-Present**
- Conduct due diligence on technologies from trainee-led teams for commercialization potential, considering product vision and innovation, team dynamics, technology, and IP
- Lead tech-sourcing and a team of 20+ PhD students to manage the Activator program, a course for academic trainees tackling the biggest challenges in human health and sustainability who aim to translate their research into startups
- Work with local partners/sponsors to plan educational and networking events enhancing the LA biotech ecosystem

Nucleate HQ
Director of Nucleate Insights **2021-2023**
- Led biotech research study group for select PhD students nationwide that investigates the scientific papers underlying today's most innovative biotechnology companies, focusing on identifying key challenges and opportunities for innovation
- Each session features a founder, CEO, and/or professor responsible for advancing an innovative biotechnology

VP of Communications **2022-2024**
- Managed all communications, created media materials, and built relationships with experienced entrepreneurs and investors

Operations for Business Development 101 **2024-Present**
- Organize training programming for grad trainees to learn business development fundamentals from Genentech leaders

Yale School of Medicine, *Neurosurgery Research Fellow* **2021-2023**
- Yale Clinical Neuroscience Neuroanalytics Laboratory; PI: Dr. Dennis Spencer, Dr. Tore Eid, Dr. Mani Ratnesh Sandhu
- Developed a high resolution anatomical human brain atlas with localized multimodal data
- Built the Yale Epilepsy Surgery Research Database in Redcap; clinical data integration with EMR
- Studied language lateralization in adult TLE patients and created virtual and augmented reality visualizations
- Investigated mechanisms behind circadian and multi-day rhythms in animal models of epilepsy

Poly-Pedal Integrative Biology Lab, *Research Assistant* **2018-2021**
- Wrote and developed a grant proposal for 800K for discovery biology research.
- Developed 4+ new projects and lead engineering team in creating prototypes, user interviews, and product feedback
- "Squirrel School" Cognitive Biomechanics Project

Neuronal Signal Integration Lab, *Research Assistant* **2018-2019**
- Investigated the effect of exposure to repeated multiple concurrent stressors on the posterior parietal cortex of adolescent mice.

National Science Foundation Innovation-Corps, *Fellow* **2020**
- Conducted in-depth market and financial research, competitive analysis on funding, revenue, and market share
- Bioengineered a thermoelectric and thermoregulatory textile, a synthetic hornet silk, under advisement of Dr. Robert Full
- Led research team to top 6 finalists in an International BioDesign competition

UC Berkeley BioDesign, *Instructor and Creator* **2018 - 2021**
- Created and taught a 2-unit UC Berkeley bioengineering design course to undergraduate students for 3 years where students ideate and execute on potential biotech startups including problem identification, stakeholder and patient interviews, solution ideation, proof of concept testing, and solution pitching. Developed all course materials and labs like 3D printed hand prosthetics

Berkeley Interdisciplinary Migration Initiative, *Collegium Research Fellow* **2018-2020**
- Built an interactive web app which enables users to visualize the health and legal services for immigrants. Present findings to local policy makers. Web app link: https://bimi.berkeley.edu/mapping-spatial-inequality