

# Jason Lin

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## EDUCATION

**Brown University, S.c.B. Computational Biology**, 4.0/4.0 GPA

Providence, RI | **Expected Graduation May 2027**

**Relevant Courses:** Deep Learning, Deep Learning in Genomics, Computational Molecular Biology, Data Structures and Algorithms, Object-Oriented Programming, Discrete Structures and Probability, Genetics, Biochemistry, Organic Chemistry I & II, Phage Hunters

## RESEARCH EXPERIENCE

**Chellappa Lab, Undergraduate Researcher**

Providence, RI | September 2023 – Present

- Studying the use of **metabolomics data** with **machine learning** to predict an individual's **biological age** and identify **age-related metabolic pathway** changes through **aging clock modeling** using **Python** and **R**. Presented research at [UTRA 2024](#) poster symposium for peer-review by Brown University faculty.
- Engineered **Raw to MzML pipeline** for in-house **mass spectrometry** and file backup pipeline between lab computers, Synology, and Brown file system.
- Performing benchwork within the lab consisting of **genotyping** and **ear tagging of mice colonies**.

**Genetic Research Internship Program, Bassik Lab, Summer Internship**

Palo Alto, CA | June 2022 – August 2024

- Collaborated with Hyan Lee Ph.D. and Micheal Synder Ph.D. to publish 15 pages of **Alzheimer's Disease** epigenetic machine algorithm [research paper](#) in **double-blind faculty-reviewed journal**, getting **300+ downloads from 2022-2024**.
- Created multiple machine learning algorithms to accurately predict the status of Alzheimer's based on 257 normal and 439 AD sample epigenetic datasets. Best DNN model achieved **AUC-ROC accuracy of 0.940** and identified **8 unique genetic biomarkers** of AD supported by literature evidence.

## INDUSTRY EXPERIENCE

**Stanford Anesthesia Summer Institute, Mentor in Residence**

Palo Alto, CA | June 2022 – Present

- Supervising and mentoring **100+ summer SASI Participants** within dorm rooms and summer camp activities.
- Communicated the setup of speaker events and panels across 2 weeks, featuring **22 speakers** and **2200+ attendances**.
- Created **MongoDB** database of SASI survey results across **5 years** to improve program performance. Maintaining and analyzing the database using Python machine learning libraries like **PyTorch** and **Tensorflow**.
- Fixed **Amion data-pipeline** which supplies **Stanford hospital's** attending call schedules, residency and fellowships.

**Rhode Island Hospital, Volunteer Ambassador**

Palo Alto, CA | June 2022 – Present

- Volunteered **40+ hours** in hospital logistics, personally assisted 10+ patients per day in the **largest hospital in Rhode Island**.
- Handle hospitality and patient-employee interactions such as **crisis prevention, elderly care, bedside care, and translation**.

## LEADERSHIP EXPERIENCE

**Brown Taekwondo Club, Instructor, Tournament Chair**

Providence, RI | August 2023 – Present

- Assisting in teaching and managing daily classes of **85+ students** Eastern Collegiate Taekwondo Conference recognized **D1 club-sport team**.
- Mentoring students in **learning Taekwondo**; tracking student belt information, belt testing, and registration information.
- Managing tournament **registration spreadsheets, transportation logistics, student safety**, and on-day tournament logistics for **37 regular competitors** in East Coast and Collegiate Nationals Tournament Championship Leagues.

**Brown Healthcare Advancement Journal, Secretary, Partnership Lead**

Providence, RI | September 2024 – Present

- Organizing and planning meetings of **30+ people**, taking **meeting minutes**, and sending **organization wide communication**.
- Reaching out to companies and organizations for **partnership opportunities**, such as **Longevity Science Foundation**.

**Brown Healthcare Investment Group, Senior Analyst**

Providence, RI | September 2024 – Present

- Modeling market trends and conducting **financial/competitive analysis** of healthcare companies such as ResMed, IQVIA, and Viva Systems. Lead sourcing of new stories, company updates, and investment ideas.
- Pitching** of vertical healthcare technology companies, such as Oracle, to the rest of BHIG sectors and board of 30+ members.

## PUBLICATION & SKILLS & INTERESTS

### Publications

- Jason Lin, [“The Future of Biotechnology: An Examination of Phage Therapy”](#), Franklin Education Foundation Journal of Student Review, October 2022
- Jason Lin, Hyan Lee and Michael Snyder, [“Deep Neural Network Classifier for Alzheimer's Disease”](#), Journal of Student Research, December 2022

**Technical Skills:** Proficient in Microsoft Office Excel, PowerPoint, Adobe Creative Suite, Premier Pro, Python, R, Java, C++, Figma.

**Language:** Bilingual proficiency in English and Chinese, elementary proficiency in Japanese

**Interests:** Social Deduction, Gardening, Mountaineering, Digital Art, History, Writing, Game Development, Dance Dance Revolution