Valerie Lam

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Skills

- **Neuropsychological Assessment Scoring:** ADOS-2, ADI-R, WISC-V, Beery VMI, BASC-3, SCQ, SRS-2, PPVT-5, CARS-2, Repetitive Behavior Scale, CSHQ
- **Imaging:** qEEG and MEG acquisition/setup, MRI annotation and segmentation
- **Data Management & Quality Control:** REDCap, Qualtrics, Microsoft Access, Excel/Google Sheets
- **Analysis & Visualization:** 3D Slicer, RStudio, Python, SPSS
- **Regulatory & Compliance:** IRB protocol management, HIPAA, sterile technique, PPE

Education

University of California, Berkeley   May 2020
BA in Integrative Biology; BA in Psychology

Experience

Case Western Reserve University, Cleveland, OH   February 2024 - present
Shoffstall Lab: *Research Assistant III*
- Curated and standardized cadaveric dissection and MRI metadata datasets across 60 cadavers in $15.75M NIH-funded study.
- Developed hierarchical databases, resolved multi-rater discrepancies, and prepared publication-ready files for public data portals.
- Coordinated interdisciplinary collaboration across clinical, neuroimaging, and research teams to align study protocols, scheduling, and data-sharing workflows.
- Executed novel systemic cadaveric dissection technique across 60 cadavers, preserving entirety of vagus nerve trajectory for microCT, 3D rendering, and histology experimentation.

University of California, San Francisco, San Francisco, CA   January 2023 - 2024
Neurodevelopmental Assessment & Imaging Lab; Bishop Lab: *Clinical Research Coordinator*
- Conducted reconciliation or independent scoring of neuropsychological assessments, verifying consistency and reliability between clinical psychology PhD student scorings.
- Facilitated emotional regulation group classes for children with neurodevelopmental disabilities, delivering evidence-based behavioral coaching.
- Screened and obtained consent from participants during telehealth sessions.
- Administered MEG and MRI imaging to capture speech-related neural responses and auditory processing patterns for behavioral and cognitive studies.
- Managed IRB-related tasks, including submitting amendments and renewing registrations, for regulatory compliance in multi-year clinical study grant.

The Education Team, Richmond, CA   October 2021 - June 2022
Amethod Public Schools, 1st Grade Teacher; 7th Grade Math Teacher
- Fostered nurturing classroom environment for social-emotional growth, applying evidence-based emotional regulation skills for students facing post-pandemic social and emotional challenges.
- Incorporated remedial and advanced math techniques, from addition to quadratic equation into 7th grade lesson plans to meet diverse learning needs.

- Led biweekly one-on-one supplementary sessions for underachieving students using student-specific designed lesson plans.
- Collaborated with parents and colleagues to incorporate at-home and across-classroom supplemental behavioral and/or academic support.

Stanford University, Stanford, CA   August 2021 - October 2021
SPARK Lab: Research Assistant
- Cultivated strategic relationships with healthcare and community partners, such as clinics and schools, through enrollment in beneficial clinical studies.
- Evaluated social-emotional capabilities of San Francisco school district students using customized software, informing developmental psychology interventions.
- Fluent in Cantonese and with elementary proficiency in Mandarin.

NorCal Brain Builders Neurotherapy, Walnut Creek, CA   June 2020 - November 2021
Neurofeedback Technician; Patient Coordinator
- Administered qEEG brain mapping and neurofeedback acquisition protocols with symptom and outcome tracking via SOAP note documentation.

Family Tree Wellness Center, Oakland, CA   March 2021 - September 2021
Patient Coordinator; Administrative Assistant
- Observed weekly didactic group supervisions of PsyD students for applied knowledge in family systems therapy, play therapy, and child/adolescent intervention strategies.

University of California, Berkeley, Berkeley, CA   August 2019, 2020 - December 2019, 2020
Department of Integrative Biology: Student Lab Instructor
- Instructed college students regarding functional human anatomical features using prosected cadavers, models, and histological slides.

University of California, Berkeley, Berkeley, CA   August 2019 - December 2020
Niyogi Lab: Research Assistant
- Conducted molecular biology techniques, including seed sterilization, buffer preparation, and protein extraction for photosynthetic analysis.

Publications

Journal Articles

Simarro Gonzalez M., Ni G., **Lam V. H.,** & Demopoulos C. (2024). Beyond Words: An Investigation of Fine Motor Skills and the Verbal Communication Spectrum in Autism. *Frontiers in Psychiatry,* 15:1379307. doi: 10.3389/fpsyt.2024.1379307

Zhang J.,* **Lam V. H.,*** & et al. (2025). *Mapping the Fascicular Morphology and Organization in Human Sciatic Nerve via High-Resolution MicroCT Imaging* [Preprint]. *bioRxiv*. doi: 10.1101/2025.06.28.662133
  *These authors contributed equally to this work.

Published Datasets

Brunsman, B., Lunasco, L., Nuzov, N. B., **Lam V. H.**, …, & et al. (2025). *Reconstructing Human Vagal Anatomy (REVA) (CWRU & Duke) - Anatomy* (Version 2) [Dataset — full dataset pending]. *Pennsieve. https://discover.pennsieve.io/datasets/483*

Protocols

Brunsman B., ..., **Lam V. H.**, ..., & et al. (2025). REVA #5: Dissecting and Measuring Cadaveric Human Vagus Nerves. *protocols.io*. doi: 10.17504/protocols.io.yxmvmb976g3p/v1

Nuzov N. B., **Lam V. H.**, …, & et al. (2025). REVA #6: 3D Tracing of Cadaveric Human Vagus Nerves. *protocols.io*. doi: 10.17504/protocols.io.dm6gpm98pgzp/v1

Nuzov N. B., ..., **Lam V. H.**, ..., & et al. (2025). REVA #7: Excision of Cadaveric Human Vagus Nerves. *protocols.io*. doi: 10.17504/protocols.io.n2bvje9r5gk5/v1

Poster Presentations

Brunsman B, ..., **Lam V. H,**, ..., & et al. (2025). No Two Alike: Characterizing the Immense Variation in Vagus Nerve Branch Patterns in 25 Cadavers, *NIH SPARC Phase 2 Annual Meeting*, Cleveland, OH.

Griffith M, ..., **Lam V. H.**, & et al. (2025). Characterization of Ansa Cervicalis and Vagus Nerve Branch Patterns in the Carotid Triangle of Human Cadavers. *Intersections*, Cleveland, OH.