

Ashley Kang

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EDUCATION

University of California, San Diego (UCSD) – La Jolla, CA
Bachelor of Public Health, Concentration in Medical Sciences
Minor: Cognitive Science
Expected Graduation: June 2027

Relevant Coursework

Biology: Introduction to Biology I–IV (with laboratory)
Physiology & Genetics: Human Physiology, Cell and Molecular Biology
Chemistry: General Chemistry I–III, General Chemistry Laboratory, Organic Chemistry I–II
Statistics & Psychology / Cognitive Science:
*Introduction to Statistics, Introduction to Psychology
***Biostatistics (PH 102)**
*** Introduction to Cognitive Science**
Mathematics & Anthropology: Calculus I–II, Introduction to Anthropology

RESEARCH, CLINICAL, & TECHNICAL EXPERIENCE

Research Intern

Pa Lab (UCSD Brain Health) – La Jolla, CA | December 2025 – Present
*Interact directly with patients to guide them through virtual reality simulations and collect data.
*Collaborate with research staff to maintain organization and efficiency in lab sessions.
*Follow research protocols and confidentiality guidelines.

AI Evaluation & Human Judgment Intern

Outlier AI – Remote
December 2025 – Present
* Evaluated AI model outputs for accuracy, coherence, and alignment with human reasoning

- * Identified error patterns related to ambiguity, contextual misunderstanding, and bias in AI-generated content
 - * Worked in human-in-the-loop workflows supporting AI model quality, reliability, and safety at scale
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Medical Transcription Assistant

Compass Dermatopathology– La Jolla, CA

May 2025 – Present

- * Translated unstructured clinical speech into accurate, structured medical documentation
 - * Maintained high data accuracy and confidentiality while handling sensitive patient information
 - * Demonstrated sustained attention to detail during high-volume transcription and data handling
 - * Supported clinical workflow through precise documentation and digital record management
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Emergency Room Medical Scribe

PeaceHealth Southwest–Vancouver, WA

March 2024 – September 2024

- * Documented patient encounters in real time in a high-acuity emergency department setting
 - * Recorded neurological, cognitive, and behavioral symptoms with accuracy and clarity
 - * Synthesized clinical information under time pressure to support physician decision-making
 - * Demonstrated adaptability, reliability, and precision in a fast-paced clinical environment
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Independent Research Projects (*Self-Directed*)

June 2024 – Present

Gun Violence & Public Health Exposure

- * Conducted an independent study examining daily exposure to gun violence, accessibility, and cultural perceptions in the U.S.
- * Compared U.S. trends to international contexts using literature review, interviews, and media analysis

- * Synthesized historical, sociopolitical, and public health perspectives to identify population-level patterns

Intergenerational Trauma & Brain Development

- * Investigated transgenerational trauma and its effects on brain development, psychological patterns, and mental health outcomes
- * Conducted literature review across neuroscience, psychology, and sociocultural research
- * Analyzed links between early stress exposure, neuroplasticity, and long-term mental health risk

Neural Synchrony & Social Cognition

- * Explored neural synchrony and its role in social interaction, empathy, and perception alignment
 - * Designed interviews and surveys to assess cognitive and perceptual alignment in social settings
 - * Analyzed results using basic statistical methods and compared findings to existing literature on turn-taking, visual cues, and social bonding
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LABORATORY, DATA, & TECHNICAL SKILLS

Laboratory & Clinical Techniques

- * Solution preparation, centrifugation, microscopy, titration, pH measurement, filtration
- * Bacterial culture, measuring and weighing, following experimental protocols
- * Patient charting and documentation of vital signs

Data Management & Analysis

***Statistical analysis using SPSS**

- * Excel data analysis and organization
- * Recording observations and maintaining lab notebooks

Technical Tools

- * Microsoft Word, Excel, PowerPoint

Professional Skills

- * Attention to detail under time pressure
- * Working with ambiguous or incomplete information

- * Efficiency, organization, and project management
 - * Troubleshooting technical and computer issues
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CERTIFICATIONS & TRAINING

CITI Program Certifications (Completed 2025):

- * Antibody Production in Animals
- * Biomedical Research Basic
- * Biomedical Responsible Conduct of Research
- * Good Clinical Practice
- * HIPAA Research Privacy
- * Public Health Research
- * Research Involving Children
- * Social & Behavioral Research
- * Working with the IACUC (Investigators, Staff, and Students)

Annual Laboratory Hazards & Safety Training — Completed 2025

UC Ethics and Compliance Briefing for researchers — Completed 2026

RESEARCH INTERESTS

Neuroscience research and development; neurotechnology and brain–computer interfaces (BCIs); cognitive neuroscience and decision-making; neuroimaging and neural signal analysis; neuroengineering and biomedical devices; neuroplasticity and learning; neuroethics and responsible innovation; human–technology interaction; neuromodulation (TMS, tDCS, neurostimulation); AI and machine learning in neuroscience; translational neuroscience for public health; neural circuits and behavior.
