ARAMIS D. M. VALVERDE, M.S.

Address: *Chevy Chase, Maryland USA* ***Patent Bar Eligible:*** *Category B - Option 4*
Email: *aramis.d.m.valverde@nyu.edu* ***Telephone:*** *1.415.797.7358* ***Languages:*** *English, Spanish, Intro. Korean*
Website: *admvalverde.com* ***LinkedIn:*** *linkedin.com/in/admvalverde* ***Citizenship:*** *USA*

EDUCATION

American University: *Washington College of Law* — Expected: Spring 2028
J.D. *– Juris Doctor - Candidate*

New York University: *School of Global Public Health* — Expected: Spring 2026
M.A. *- Master of Arts in Bioethics - Candidate*

University of California, Merced: *School of Social Sciences, Humanities, & Arts* — Fall 2020-Spring 2022
M.S. *- Master of Sciences in Cognitive and Information Sciences*
Thesis: *Outlining the Diverse Etiologies of Autism Spectrum Disorder*

San Francisco State University: *College of Science & Engineering* ***&*** *College of Liberal & Creative Arts* — Fall 2015-Spring 2020
B.A. & B.A. *- Bachelor of Arts in Psychology* ***&*** *Bachelor of Arts in Philosophy*

EXPERIENCE

New York University Langone: Grossman School of Medicine: Dept. of Environ. Medicine. Manhattan, NY
External Research Collaborator under Dr. Judith Zelikoff: 2024-Present

- Collaborated with NYU Langone Researchers, Voice of Gowanus, and Friends of Greater Gowanus on a community-engaged environmental-health project concerning the Gowanus Canal Superfund site.
- Synthesized toxicology and chemical exposure literature to produce a community-driven health-needs survey.
- Developed all protocol and materials for survey and data collection, responsible for data processing upon completion.

New York University Washington Square: School of Global Public Health. Manhattan, NY.
Graduate Researcher: 2024-2026

The Policy and Neuroscience of Death by Neurological Criteria

- Investigated the etiology and neurology of post-cardiac arrest brain-death and applied findings to clinical case studies.
- Developed a framework for understanding death in a post-ECMO context, advocating for a brain process-based approach.
- Provided policy and administrative recommendations, advocating for increased neurological screening of cardiac-resuscitation patients and scientifically stringent brain death declaration criteria.

Neural and Biochemical Mechanisms of Serotonergic Compounds

- Analyzed biochemical mechanisms underlying the effects of 5HT-2A agonists, including biochemically based proposal for understanding the lack of serotonin syndrome peculiar to hallucinogens and led ongoing validation collaboration.
- Applied biochemical findings to understand and predict neural-network level responses to select 5HT-2A agonists.
- Produced and presented findings at conferences at the University of Tokyo and New York University.

American Psychological Association: The Society for Theoretical and Philosophical Psychology. Global.
Membership Committee Chair: 2023-Present

- Proposed, received funding for, and executed a drive to increase membership among multiple demographics.
- Worked to increase funding and opportunities such as travel grants for underserved and early career scholars.
- Overhauled and redesigned marketing and branding, developing and implementing a new logo and stylebook.

CERC Collaboratory: California Environmental Research and Communication Collaboratory. Merced, California.
Co-Founder: 2021-2022

- Assessed environmental hazards and health impacts, leading to a community awareness initiative and public advocacy.
- Developed protocol under guidance from NASA's USRA and NAMS projects, subsequently pursued independently with periodic consultation from NASA program leadership during project development.

Computational Cognitive Neuroscience Laboratory. 2020-2022. University of California, Merced
Research Assistant: 2020-2022

- Developed a model of relational and object representation, and work using network simulations of mechanisms at the microscale to simulate perceptual differences in ASD at the network and meta-network level.

SELECTED CONFERENCE PRESENTATIONS

University of Arizona: Center for Consciousness Studies - Concurrent Presentation **July 7th, 2025**
Perception as Iterative Global State Evaluation & Integration – A Process Based Neurocognitive Approach
TSC 2025 - The Science of Consciousness Conference Barcelona, Spain.

New York University: Center for Data Science - Poster Presentation **October 21st, 2024**
Bio-Chemical Mechanisms of LSD Function and Changes in Perceptual Processing
NYU Minds, Brains, and Machines Initiative 2nd Poster Conference New York City NY, USA.

The University of Tokyo: Hongo Campus - Satellite Presentation **July 4th, 2024**
Neural Mech.'s of Temporal Perception: A Function-First Neural Arch. Approach to Operationalizing Time-Perception
ASSC27 - Association for the Scientific Study of Consciousness Conference Tokyo, Japan.

Stanford University - Paper Presentation **September 9th, 2022**
Explaining Conscious Report: A Functional, Mechanistic, and Directed-Hypergraph Neural Systems Framework
MOC3 - Models of Consciousness 3 Conference Stanford, CA, USA.

University of St Andrews - Paper Presentation **August 12th, 2022**
Neuroplasticity, Epigenetics, and The Environment: A Systems Approach to Processing & Community Health
Templeton Foundation: Diverse Intelligences Summer Institute Saint Andrews, Scotland.

University of St Andrews - Podium Presentation **July 31st, 2022**
Info. Processing as Cognition: The Utility of Biologically-Derived Hypergraph Structures in Explaining Representations
Templeton Foundation: Diverse Intelligences Research Summit Saint Andrews, Scotland.

San Francisco State University - Undergraduate Invited Podium Presentation **February, 2016**
Political Knowledge, Voting Behavior, Social Media Usage, and Susceptibility to Misinformation
American Politics San Francisco, CA, USA.

TEACHING ASSISTANTSHIPS

NYU - GPH-GU 2222: Ethics and Clinical Practice Fall 2024
UCM - PHIL 001: Introduction to Philosophy Spring 2022
UCM - COGS 177/PHIL 173: Consciousness in Philosophy and Cognitive Science Fall 2021
UCM - POLI 130: Institutions of Democracy Spring 2021
UCM - PHIL 003: Applied Ethics Fall 2020

EXPERTISE AND COMPETENCIES

Software: R, MATLAB, Jamovi, Java, SIMBRAIN, EMERGENT, Office Suite.

Research Specializations & Interests: Neural Computation, Pharmacology/Toxicology, A.I. Models, Visual Processing, Neural Architectures, Systematicity and Evolving Systems, Neural Bio-Chem. Systems Processing, Neural and Chemical Precipitants of Cognitive Disorders [ASD], Env. Factors in Neural Processing and Dev., Phil. of Mind, Computational Cognitive Neuroscience.

Professional Skills: Statistical Methods, Statistical Graphics, Large Dataset Analysis, Exploratory Data Analysis, Neural Systems Analysis, Electrophysiological Methods, Interdisciplinary Team Building, Event Management, Translation of Technically Dense Books: Korean to English, Spanish-English Translation: P1 Certified (Clinical Non-Technical).

SELECTED AWARDS AND GRANTS

Fellowship Recipient: NYU GPH Bioethics Fellowship ($20,000.00) 2024 & 2025
Cognitive and Information Sciences Fellow: Diverse Intelligences Summer Institute 2021 & 2022
Honorarium Recipient: Templeton Foundation: DISI ($1,250.00) & ($3,450.00) 2021 & 2022
Dean's List 2016, 2019 & 2020
Co-Awardee: Privacy Financial Hack Challenge SF State Hackathon 2017

PROFESSIONAL MEMBERSHIPS, SERVICE, AND CLUBS

Society for Theoretical and Philosophical Psychology: **Membership Committee Chair** 2023-Present
Sigma Xi (Scientific Research Honors Society): **Associate Member** 2025-Present
Oxford Math of Consciousness and Applications Network - OMCAN: **Member** 2022-Present
Doctors Without Borders at San Francisco State: **Officer & Treasurer & Fundraiser** 2017-2019
San Francisco State University Speech and Debate: **Novice & Open Lincoln-Douglass Competitor** 2015-2017
Korea-Cambodia STEM Teacher Workshops in Phnom Penh: **Instructor & Assistant** 2017