

Aramis D. M. Valverde, M.S.

Address: Chevy Chase, Maryland USA **Patent Bar Eligible:** Category B - Option 4
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EDUCATION

American University: Washington College of Law J.D. - Doctor of Jurisprudence - Candidate	Expected: Spring 2028
New York University: School of Global Public Health M.A. - Master of Arts in Bioethics Cumulative & Major GPA: 3.91	Expected: Fall 2025
University of California, Merced: School of Social Sciences, Humanities, & Arts M.S. - Master of Sciences in Cognitive and Information Sciences Thesis: <i>Outlining the Diverse Etiologies of Autism Spectrum Disorder</i>	Fall 2020-Spring 2022
San Francisco State University: College of Science & Engineering & College of Liberal & Creative Arts B.A. & B.A. - Bachelor of Arts in Psychology & Bachelor of Arts in Philosophy	Fall 2015-Spring 2020

EXPERIENCE

New York University Washington Square: School of Global Public Health. 2024-2025. Manhattan, NY.

Graduate Researcher: 2024-Present

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 LSD, including biochemically based proposal for understanding the lack of serotonin syndrome peculiar to LSD and other hallucinogens and led ongoing validation collaboration.
- Applied biochemical findings to understand and predict neural-network level responses to LSD.
- Produced and presented findings at conferences at the University of Tokyo and New York University.

New York University Langone: Grossman School of Medicine: Dept. of Environ. Medicine. 2024-Present. Manhattan, NY

External Research Collaborator under Dr. Judith Zelikoff & Dr. Claudia Passos-Ferreira: 2024-Present

- Collaborated with NYU Langone Researchers, Voice of Gowanus, and Friends of Greater Gowanus on community-engaged environmental-health work around 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, NYU Washington Square IRB pending approval.

APA DIV 24: The Society for Theoretical and Philosophical Psychology. 2023-Present. 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. 2021. 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

- Valverde, A. D. M. (2025, July 7th). *Perception as Iterative Global State Evaluation & Integration – A Process Based Neurocognitive Approach*. [Concurrent Presentation] The Science of Consciousness Conference, **Center for Consciousness Studies, University of Arizona: Barcelona, Spain.**
- Valverde, A. D. M. (2024, October 21st). *Bio-Chemical Mechanisms of LSD Function and Changes in Perceptual Processing*. [Poster Presentation] New York University Minds, Brains, and Machines Initiative: 2nd Minds, Brains, and Machines Poster Conference, **Center for Data Science, New York University: New York City NY, USA.**
- Valverde, A. D. M. (2024, July 4th). *Neural Mechanisms of Temporal Perception: A Function-First Neural Architecture Approach to Operationalizing Time-Perception*. [Satellite Presentation] Association for The Scientific Study of Consciousness Conference ASSC27, **Hongo Campus, The University of Tokyo: Tokyo, Japan.**
- Valverde, A. D. M. (2022, September 9th). *Explaining conscious report: a functional, mechanistic, and directed-hypergraph neural systems framework*. [Paper Presentation] Association for Mathematical Consciousness Science: Models of Consciousness 3 [MOC3], **Stanford University: Stanford CA, USA.**
- Valverde, A. D. M. & Barreras III, Cesar A. (2022, August 12th). *Neuroplasticity, Epigenetics, and The Environment: A Systems and Neurobiological Approach to Processing & Community Health*. [Paper Presentation] Templeton Foundation: Diverse Intelligences Summer Institute: **Uni. of St Andrews: Saint Andrews, Scotland.**
- Valverde, A. D. M. (2022, July 31st). *Information Processing as Cognition: The Utility of Neural-Derived Directed Hypergraph Structures in Explaining Representational Processing*. [Podium Presentation] Templeton Foundation: Diverse Intelligences Research Summit: **University of St Andrews: Saint Andrews, Scotland.**
- Valverde, A. D. M. (2016, February). *Political Knowledge, Voting Behavior, Social Media Usage, and Susceptibility to Misinformation: Results from a Hybrid Survey & Experimental Study*. [Undergraduate Invited Podium Presentation] American Politics, **San Francisco State University: San Francisco CA, USA.**
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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, CSS, Photoshop, 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 & 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, & CLUBS

Society for Theoretical and Philosophical Psychology: Membership Committee Chair	2023-Present
Society for Theoretical and Philosophical Psychology: Membership Committeeperson	2021 & 2022
Sigma Xi (Scientific Research Honors Society): Associate Member	2025-Present
Oxford Math of Consciousness and Applications Network - OMCAN: Member	2022-Present
Cognitive Neuroscience Society: Student Member	2020-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