

Daniel Carbonero, Ph.D.

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Selected Professional Experience

PsyMed Ventures

Boston, MA

Investment Associate

2025 - Present

- Led scientific and commercial diligence, including appropriate market landscaping, to arrive at VC investment decisions across key subsectors.
- Cultivated and maintained relationships across Boston's biotech and VC communities to strengthen PsyMed's strategic presence and source deal flow.

Breakout Ventures

San Francisco, CA

Diligence Consultant

2025

- Provided comprehensive due diligence, synthesizing critical technical and market insights for influencing VC investment decisions.

Venture Fellow

2023 – 2025

- Managed early deal-flow, leading initial investment calls, evaluating opportunities (scientific merit, market potential, IP, etc.), and drafting reports with strategic recommendations for the investment team.
- One of a limited number of fellows to have sourced deal-flow move into NDA diligence.
- Served as strategic partner in biotech hub of Boston, evaluating emerging technologies, startups, and entrepreneurs to source potential deals, and connect promising future opportunities with Breakout's resources.

Office of Technology Development, Boston University

Boston, MA

Student Analyst

2023 – Present

- Assessed academic technologies for commercial viability through in-depth market landscape analysis, identifying and outlying potential strategic fit within the commercialization pipeline and broader industry context.

Kramer Neurodata & Modeling Group, Boston University

Boston, MA

Graduate Research Fellow

2020 – Present

- Applied transfer learning to implement and fine-tune pre-trained Long Short-Term Memory (LSTM) Deep Neural Networks (DNNs) for automatic spike ripple detection in human epilepsy voltage recordings.

Neuronal Dynamics Laboratory (NDL), Boston University

Boston, MA

Graduate Research Fellow

2020 – Present

- Developed and adapted linear and non-linear dimensionality reduction (DR) machine learning methods for unsupervised neuronal network analyses recorded with calcium imaging under unique neural contexts.
- Collaborated with experimental lab scientists to iteratively adapt and apply machine learning analysis methods to their collected data to answer groundbreaking, novel, and complex neurological questions.

Bio-Vitro Inc

Miami, FL

Associate Engineer

2019

- Optimized design of robotic fluid handling platform for unattended, automated, organ-on-chip experiments for production and selling to collaborating labs to make organs-on-chips more technically accessible.

Selected Leadership Experience

Nucleate, Boston Chapter

2022 – 2024

Director of Communications, Vice President of Communications

- Directed the Communications team of Nucleate Boston, a trainee-led organization facilitating venture creation of life science spinouts.
- Implemented entirely novel pipeline to overhaul and standardize communications from Boston chapter to target audiences.
- Served as liaison between Nucleate headquarters, local Nucleate program participants, and the Boston leadership team, solving logistical issues as they presented, or delegating them to the appropriate personnel.

Selected Skills

Languages: Native in Spanish, fluent in English, **Certifications:** Six Sigma Green Belt

Programming: Highly Proficient: Python, MATLAB Comfortable with: HTML, CSS, R Familiar with: C, C++, Java

Machine Learning and Data Analysis: Linear and Non-Linear Dimensionality Reduction, Clustering, Unsupervised/Semi-Supervised/Supervised Learning, Deep Learning (Artificial Neural Networks), Time Series Analysis, Image Analysis

Education

Boston University

Boston, MA

Ph.D. in Biomedical Engineering

2019 - 2025

Dissertation: Decoding Computational Neuroscience: An Accessible Framework for Sophisticated Neural Analyses

Selected Honors: NIH F31 Fellow, NIH TRB T32: Funded Trainee, Distinguished BME Fellowship

University of Miami

Miami, FL

Bachelor of Science in Biomedical Engineering

2015 - 2019

Selected Honors: Cum Laude, University of Miami Senior Design Industry Impact Award