

Robert A. Beer II, MS, CNIM

28 Deirdra Court, Warwick, Rhode Island 02889 | (401) 864 – 9113 | BeerII.Robert@gmail.com

EDUCATION

ST. GEORGE’S UNIVERSITY SCHOOL OF MEDICINE, GRENADA, WEST INDIES

Doctor of Medicine, *Field of Interest: Surgery (General, Vascular, Neurosurgery)*

*MAY 2026

Degree Level: Doctoral

UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT

Master of Science, *Neurophysiology*

MAY 2020

Degree Level: Graduate

Clinical Rotation: UCONN Health – John Dempsey Hospital, Farmington, CT

GPA: 4.08

Professional Certifications: Intra-Operative Neuromonitoring, HIPAA, BLS/CPR

QUINNIPIAC UNIVERSITY, HAMDEN, CONNECTICUT

Bachelor of Science, *Behavioral Neuroscience*

MAY 2019

Degree Level: Undergraduate

Minors: *Biology, Chemistry, & General Business*

GPA: 3.74 Honors: Magna Cum Laude

Awards: Psi Chi Honor Society; Dean’s Scholarship

UNIVERSITY OF TECHNOLOGY, SYDNEY, AUSTRALIA

Bachelor of Science, *General Business*

FEBRUARY 2018 – JULY 2018

Degree Level: Undergraduate

Purpose: Study Abroad

GPA: 4.00

Course: Management & Organizational Behavior

BISHOP HENDRICKEN COLLEGE PREPARATORY, WARWICK, RHODE ISLAND

JUNE 2015

Degree Level: High School

Honors: National & Rhode Island Honor Societies

Academic Rank: 11.8%

CLINICAL WORK EXPERIENCE

SURGICAL NEUROPHYSIOLOGIST – CT, RI, MA, NH

JUNE 2019 – PRESENT

Rhode Island Hospital - Lifespan Hospital | Specialty Care, Inc. | UCONN Health John Dempsey Hospital

- Board-Certified (*ABRET*) neurophysiologist to surgeon(s) by improving health outcomes, reduce neurological injury, and clinically assess physiological outcomes by quantifying neurophysiological data.
- Perform intra-operative neuromonitoring of central and peripheral nervous systems during neurological surgery / orthopedic surgery / endovascular surgery.
- Record, review, and interpret neurophysiological evoked potentials to suggest surgical interventions.

Graduate Certificate: Intra-operative Neuromonitoring Research: Post-Op “Foot Drop” in ALIF Surgery

CRISIS TEXT LINE® VOLUNTEER – INTERNATIONAL

JANUARY 2020 – MARCH 2021

- Certified crisis counselor and mental health advocate during the public global health crisis (COVID-19).

DUAL-LICENSED PHARMACY TECHNICIAN – CT & RI

APRIL 2019 – MAY 2021

CVS Pharmacy | CVS Health, Inc.

- Accuracy, precision, meticulous preparation, and advanced commitment to patient-prescription adherence.

CLINICAL SHADOW – RI

AUGUST 2018 – APRIL 2021

Medical Practices of: (1) Arshad Iqbal, M.D. | (2) Giulio Diamante, MD | (3) Joseph Wyllie, DO

- (1) Hard-working shadow to a chief neurologist and stroke specialist providing care to a small community.
- (2) Assist in an academic ophthalmology practice by observing routine exams and surgical consultations.
- (3) Conduct ECGs to identify anomalies in diagnostic spectra and attend rounds at a cardiovascular clinic.

PUBLICATION

- Zheng B, Leary OP, Beer II RA, Liu DD, Nuss S, Barrios-Anderson A, Darveau S, Syed S, Gokaslan ZL, Telfeian AE, Oyelese AA, Fridley JS (2022*) Long-Term Motor Versus Sensory Lumbar Plexopathy Following Lateral Lumbar Interbody Fusion: Single-Center Experience, Intraoperative Neuromonitoring Results, and Multivariate Analysis of Patient-Level Predictors. *NEUROSURGERY* Submitted: 05/19/2022 | Under Review*

CONFERENCES & PRESENTATIONS

PRESENTATION

NOVEMBER 2021

The University of Connecticut – MS Surgical Neurophysiology Cohort

- Beer II RA (2021), The Intraoperative Utility of Transcranial Motor Evoked Potentials (TcMEPs) to detecting “Foot Drop” during Anterior Lumbar Interbody Fusions (ALIFs). *The University of Connecticut*, Storrs, CT.

PRESENTATION

OCTOBER 2021

SpecialtyCare, Inc.

- Beer II RA (2021), The Intraoperative Utility of Transcranial Motor Evoked Potentials (TcMEPs) to detecting “Foot Drop” during Anterior Lumbar Interbody Fusions (ALIFs). *The University of Connecticut*, Storrs, CT.

CONFERENCE & POSTER PRESENTATION – F. H. NETTER MEDICAL SCHOOL, CT

FEBRUARY 2020

NEURON (*Northeast Undergraduate Research Organization for Neuroscience*) Conference

- Beer II RA, Culver ZK, Betz AJ, Rush L. (2020), Laboratory exercises to illustrate drug-induced analeptic behavior and conditioned place preference stimulated by amphetamine using drosophila larvae. *NEURON Regional Conference at Frank H. Netter School of Medicine*, North Haven, CT.

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FEBRUARY 2019

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ACADEMIC CONFERENCE & POSTER PRESENTATION – CHICAGO, IL

OCTOBER 2019

Society for Neuroscience (*SfN*) Conference, National Conference

- Beer II RA, Betz AJ, Feliciano J, Sung E, Springer A, Culver ZK, Raghunathan S, Emede T, Rush L, and Hibbard K. (2019), Three laboratory exercises utilizing drosophila melanogaster: Amphetamine-induced larval locomotion, amphetamine-induced conditioned place preference, and optogenetic stimulation of behavioral assays. *Society for Neuroscience (SfN)*, Chicago, IL.

POSTER PRESENTATION

DECEMBER 2018

Departments of Biological and Psychological Sciences in Advanced Neuroscience Research at Quinnipiac University

- Beer II RA, Shkurti, A, Wallach, J. (2018), The activation of frontal lobe waves due to the effects of l-theanine and caffeine on Stroop test performance measured by an electroencephalogram. Quinnipiac University, CT.

RESEARCH EXPERIENCE

GRADUATE RESEARCH ASSISTANT – QUINNIPIAC UNIVERSITY, CT

AUGUST 2019 – MAY 2020

Dr. Adrienne Betz, Ph.D. | Director of Neuroscience | Principal Investigator

- Utilize *drosophila* larvae to assess thermochemical preference among transgenic drosophila lines and behaviorally assess whether optogenetic stimulation drives thermochemical behavior.
- Performed statistical analyses among thermochemical preferences through SPSS; R; GraphPad Prism.

GRADUATE RESEARCH PROPOSAL – UNIVERSITY OF CONNECTICUT, CT

DECEMBER 2019

Dr. Randall Walikonis, Ph.D. | Professor of Biology of Nervous System Diseases

- Beer II RA (2019), The therapeutic and neuroprotective effects of pH and Trimethylamine N-Oxide [TMAO] in neuropathological prion disease: A systematic proposal to reduce Creutzfeldt-Jakob disease. *Department of Physiology and Neurobiology, Storrs, CT.*

UNDERGRADUATE RESEARCH ASSISTANT – QUINNIPIAC UNIVERSITY, CT SEPTEMBER 2018 – MAY 2019

Dr. Adrienne Betz, Ph.D. | Director of Neuroscience | Principal Investigator

- Collaboratively developed an experimental procedure utilizing *drosophila melanogaster* larvae as a model organism to manipulate neuromuscular junctions by blocking the reuptake of dopamine (DA).
- Explored properties of Conditioned Place Preference (CPP) Paradigm against light/dark conditions.

UNDERGRADUATE RESEARCH ASSISTANT – QUINNIPIAC UNIVERSITY, CT AUGUST 2017 – MAY 2019

Dr. Todd Ahern, Ph.D. | Associate Professor of Neuroscience | Principal Investigator

- Collaborated on a procedure outlining microsatellite genotyping of vasopressin receptor gene (*avpr1a*).
- Performed PCR amplification of the vasopressin receptor by preparing *avpr1a* primers and collecting DNA.
- Visualized and analyzed the resultant gel to select which prairie voles are suitable for further breeding.

SUPPLEMENTAL EMPLOYMENT**CO-FOUNDER, CO-CHIEF EXECUTIVE OFFICER – NERUOPLEX INDUSTRIES, INC. (RI)** JUNE 2022

Corporation Vice President; Corporation Treasurer [Helen Karimi, Co-Founder & Co-CEO]

REAL ESTATE INVESTOR – RIVER REALTY, LLC. (RI) FEBRUARY 2022

Sole Proprietor presently situated with a diverse real estate portfolio of residential and investment properties.

VOLUNTEER ACTIVITIES**COLLEGE BOUND CHARTERS – BOSTON, MA** SEPTEMBER 2015 – PRESENT

Academic Liaison, Résumé Collaborator, & Bookkeeper

DIRECTOR OF RISK MANAGEMENT – QUINNIPIAC UNIVERSITY, CT SEPTEMBER 2016 – OCTOBER 2018

Executive Board Member | Beta Theta Pi – Eta Sigma

STUDENT SERVICE VOLUNTEER & LEADER – BATTLE CREEK, MI MARCH 2017

Habitat for Humanity – Domestic & International

EAGLE SCOUT – WARWICK, RI AUGUST 2015

RI Troop #183 | Boy Scouts of America

SKILLS & STRENGTHS

Lab Techniques: Rodent Open Field Maze and Plus Maze Testing; *Drosophila* Locomotion and Behavioral Assays; Gel Electrophoresis/SDS-PAGE; Western Blot; Genotyping; Polymerase Chain Reaction (PCR)

Bio-Statistical Skills: Data Entry & Analysis (SPSS); GraphPad Prism; MATLAB; R; Advanced Microsoft Office

Relevant Courses: Advanced Research Methods, Statistics, Analytical Chemistry, Organic Chemistry, Neurobiology, Psychopharmacology, Molecular & Cell Biology, Biology of Nervous System Diseases

Certifications: CITI Animal Research & Human Subject Research Training; Pharmacy Technician License (RI + CT), CNIM, HIPAA, BLS / CPR, Certified Crisis Counselor

INTERNATIONAL EXPERIENCE**CULTURAL EXPLORATION & ENGAGEMENT**

FEBRUARY 2018 – JULY 2018

Exploration: Australia, New Zealand, Indonesia, Thailand, Italy, France, Spain