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OBJECTIVE

Dedicated and self-motivated individual with 5 years of experience working in research settings and in clinical research combined. Aspirations include involvement in or managing clinical research studies with special interest in neurodegenerative diseases, neurology, and social sciences.

EDUCATION

Research-Based Master of Sciences Degree

Sep 2018-Dec 2020

- Physiology with a concentration in Neuroscience and Molecular Biology, Université de Sherbrooke, Sherbrooke, Quebec, Canada.
- Research project "Aging of the Lateral Choroid Plexus in mice" aimed at uncovering novel pathways for addressing Alzheimer's disease.
- Recognized for dedication and contributions to neuroscience research with the "Bourse de Congrès de Neurosciences Sherbrooke" in 2019.

Bachelor's Degree

Sep 2015-Jun 2018

- Neuropsychology, Bishop's University, Sherbrooke, Quebec, Canada.
- Clinical Research Project: "Neuroanatomical and neuro-functions associated with meditation in individuals diagnosed with ADHD".

WORK EXPERIENCE

CLINICAL RESEARCH ASSISTANT

Oct 2022 - Current

Clinical Research Organization- Biospective (Remote)

- Managed large-scale sponsored studies with hundreds of imaging and clinical sites across Europe, Asia, and the United States.
- Coordinated study-related activities to ensure the timely delivery of high-quality services.
- Trained and supervised internal team members, providing guidance, support, and oversight to ensure adherence to study protocols and high-quality performance.
- Trained external imaging technicians on correct imaging protocols, ensuring the acquisition of high-quality imaging data in compliance with study requirements.
- Performed quality control, organized and reconciled large volumes of imaging and clinical data, and resolved queries for neuroimaging studies.
- Conducted Image Quality Control (QC) review, data preparation, and data management.
- Participated in Biospective R&D activities, setting up activities for new clinical studies with internal and external stakeholders.
- Led and assisted in the preparation and review of study-related documentation.
- Ensured overall study quality and regulatory compliance.
- Participated in the conduct of clinical studies from site initiation to study close.
- Contributed to the development and improvement of departmental and company knowledge, including training internal staff and providing feedback on Biospective technology and processes.

TOXICOLOGY RESEARCHER

Feb 2022 - Oct 2022

Clinical Contract Organization – ITR Laboratories (On Site)

- Contributed to the care and housing of all living animals in the facility while following GLP standards.
- Executed precise drug administration procedures by adhering to the study plan and GLP regulations.
- Coordinated study-related activities for delivery of timely, high-quality services.
- Prepared and reviewed study-related documentation.
- Actively participated in the conduct of clinical studies from site initiation to closure.
- Ensured overall studies quality and regulatory compliance.
- Adhered to study requirements, including Sponsor, regulatory, Quality Assurance and Standard Operation Procedures.

FOUNDER

Jun 2021 - Sep 2022

Startup – NeurobioNX (Outside of regular work hours)

- Launched NeurobioNX in my free time to address the high cost of myo-electric prosthetic hands in the market.
- Self-taught in 3D design and coding to develop a high-accuracy, affordable and functional prosthetic hand.

- Created an open-source prosthetic hand that can be downloaded and 3D printed anywhere for free.
- Directed all aspects of the startup including product design, market, research and partnerships.
- Led efforts to create affordable, open-source myo-electric prosthetics, utilizing 3D printing technology.
- Assembled and led a multidisciplinary team, coordinating efforts in engineering, design, and research.
- Oversaw day-to-day operations, including, budgeting, project timelines, and participation in startup competitions.

BEHAVIOURAL RESEARCH ASSISTANT

Jan 2021-Jun 2021

Douglas Mental Health Institute - Meaney's Lab (hybrid)

- Played a pivotal role in planning, scheduling, and executing behavioural tests, ensuring seamless implementation and adherence to timelines.
- Performed drug administration procedures by adhering to the study plan and GLP regulations.
- Assigned responsibilities for test scheduling and planning, overseeing the efficient execution of behavioural tests.
- Prepared and reviewed study-related documentation.
- Conducted a variety of behavioural tests, demonstrating expertise in test protocols and procedures.
- Proficiently performed live blood collection, tissue collection, and other specimen handling tasks with precision and attention to detail.
- Actively contributed to genetic laboratory operations, participating in genetic analyses and experiments as required.
- Demonstrated skill and proficiency in performing dissections, contributing to anatomical studies and research efforts.
- Ensured overall studies quality and regulatory compliance.

RESEARCH SCIENTIST

Sep 2018- Dec 2020

University of Sherbrooke - Laurent's Lab (On Site)

- Managed inventory and laboratory supplies, ensuring seamless operations and efficient resource utilization.
- Coordinated activities and experiments, meticulously planning and executing research endeavours to achieve project milestones effectively.
- Mentored students in various laboratory techniques, including brain dissection in mice, fostering skill development and a collaborative research environment.
- Analyzed extensive datasets to interpret results and identify trends, contributing significantly to research objectives.
- Prepared and reviewed study-related documentation, maintaining meticulous records to ensure accuracy and compliance with research protocols and regulatory standards.
- Actively participated in scientific literature writing, contributing to the dissemination of research findings through publications and presentations.
- Pioneered a method for dissecting a specific area of the mouse brain.

VOLUNTEER EXPERIENCE

Caretaker

2023-Current

Cause4Paws, Montreal, QC.

- Oversees the well-being and development of rescued kittens and cats.
- Responsibilities include coordinating veterinary appointments, overseeing medical treatments, providing nourishment, and nurturing the animals until they find a permanent home.

Week Event Coordinator

2019

La Semaine du Cerveau, Sherbrooke, QC.

- Designed and implemented learning activities using scientific literature to promote ADHD awareness.
- Organized events and created educational materials.
- Delivered presentation on ADHD awareness.

Volunteer Day and Night Time Outreach

2013-2014

R.A.M.A. and HOPE Outreach, Kelowna, B.C.

- Provided essential items such as food, clothing, and necessities to migrant workers, homeless and sex workers.
- Organized outing to enhance the well being of migrant workers.
- Offered emotional support and attended to the immediate needs of migrant workers, homeless and sex workers.

Volunteer Instructor

2012

LHA Charitable Trust, Dharamshala, India

- Provided essential items such as food, clothing, and necessities to Tibetan Refugees.
- Offered English, Spanish and musical tutoring and coordinated activities for kids and adults.

SCIENTIFIC CONTRIBUTIONS

- Poster Presentation "Aging of the Lateral Choroid Plexus in mice" at Biology of Aging symposium | Montreal, QC 2019
- Presentation "Realities of ADHD" at La Semaine du Cerveau | Sherbrooke, QC 2019

PUBLICATIONS

Lopez, J. A., Abboud, C., Ibrahim, M. H., **Ahumada, J. R.**, Avino, M., Plourde, M., Fernandes, K. J., Bentzinger, C. F., & Beaugerie, L. (2023). Impact of in vivo cyclic reprogramming on the choroid plexus. *bioRxiv (Cold Spring Harbor Laboratory)*. <https://doi.org/10.1101/2023.02.28.530533>.


SKILLS

Certifications: Responsible Conduct of Research, Good Clinical Practice (valid until 2026), Good Laboratory Practice


Skills: MS Office, Adobe Acrobat, data entry, electronic medical record, Linux, C++, Bash, HTML, CSS, Java Script, draw.io

Relevant skills: Adaptability, fast learner, thrives in high-paced environments, public speaking, presentations, multitasking, problem-solver, teamwork, time management and autodidactic

LANGUAGES

 **English** - Native or bilingual proficiency.

 **French** - Professional working proficiency.

 **Spanish** - Native or bilingual proficiency.