

# JAVIER ROCHA, M.Sc.

Montreal, Québec

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## OBJECTIVE

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

## EDUCATION

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### Research-Based Master of Science's 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-June 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

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### CLINICAL RESEARCH ASSISTANT

Oct 2022 - Current

#### Clinical Research Organization- Biospective (Remote)

- Worked on sponsored clinical studies, including coordination of study-related activities to ensure delivery of timely, high-quality services
- Led and assisted with preparation and review study-related documentation
- Performed quality control, organized and reconciled large amounts 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. Setup activities for new clinical studies with internal and external stakeholders.
- Ensured overall studies quality and regulatory compliance
- Participated in the conduct of clinical studies from site initiation to study close
- Contributed to the development and improvement of department or company knowledge, including participating in training of 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 2022 - Sep 2022

#### Startup – NeurobioNX (On Site)

- Founded NeurobioNX in response to 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-June 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**

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### **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**

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- 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
- Poster Presentation "Aging of the Lateral Choroid Plexus in mice" at the Riboclub Conference | Magog, QC 2019

## PUBLICATIONS

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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

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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


Languages: English, French, and Spanish


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

## LANGUAGES

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 **English** - Native or bilingual proficiency

 **French** - Professional working proficiency

 **Spanish** - Native or bilingual proficiency