PhD Candidate · Neuroscience

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"Any man could, if he were so inclined, be the sculptor of his own brain." Santiago Ramon y Cajal

Summary _____

Current Site Reliability Engineer at start-up company Kasa. 7+ years experience specializing in the backend development, infrastructure automation, and computer hacking/security. Super nerd who loves Vim, Linux and OS X and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Research Experience

University of Victoria

Victoria, BC. Canada

GRADUATE FELLOW IN NEUROSCIENCE

Jan. 2015 - Apr. 2020

- Advisor: Leigh Anne Swayne, PhD.
- Area of Study: Area of study: Pannexin 1 channels, dendritic spine plasticity, synapse formation, channel trafficking, neuronal cytoskeleton dynamics, neural stem cells, advanced microscopy for cell biology.
 - * Generated conditional and conditional-inducible knockout models for the study of cerebral cortex development.
 - * Optimized protocols to generate primary neuronal cultures from neonatal mice suitable for network analysis.
 - * Developed methods to visualize dendritic spines and filopodia in tissue sections and living primary neurons.
 - * Established immunocyto(histo)chemistry protocols that preserve the neuronal cytoskeleton.

Centro de Estudios Cerebrales - Universidad del Valle

Cali, Valle. Colombia

Feb. 2014 - Jun. 2014

RESEARCH INTERN IN BIOMEDICAL SCIENCES - NEUROSCIENCE CONCENTRATION

- Advisors: Prof. Martha Escobar, MSc; Prof. Hernan Pimienta, MSc, Prof. Efrain Buritica, PhD.
- · Area of study: functional neuroanatomy, cerebral cortex organization, traumatic brain injury, stroke, neuroprotection.
- Performed carotid ligation in Whistar rats using microsurgery techniques.
- · Used the weight-drop model of diffuse traumatic brain injury to generate organotypic slice cultures from rats.
- · Optimized immunohystochemistry for neuronal and astrocytic markers in thick rat brain tissue sections.

School of Public Health - Universidad del Valle

Cali, Valle. Colombia

STUDENT RESEARCHER

Aug. 2010 - Feb. 2011

- Advisors: Enrique A. Estevez, MD and Elsa P. Muñoz, MD, MPH
- · Area of study: ardiovascular risk factor assessment in spinal cord injured patient assisting to a tertiary-level hospital.
 - Prepared a research project proposal, liaised with ethical boards, and established a network of collaborators to complete using a standarized survey.
 - Prepared reports and presentations to share project results in local and national meetings.
 - Created a database in Epilnfo 7 for data collection, data management, and statistical analysis.
 - Contributed to the assessment and management of patients with chronic spinal cord injury, including prescribing rehabilitation plans and ordering of radiological and laboratory ancillary tests. Discussed cases with Physical Medicine and Rehabilitation attendings and residents.

Teaching Experience _____

University of Victoria - Division of Medical Sciences

Victoria, BC. Canada

TEACHING ASSISTANT

Spring 2017, Fall 2018, Spring 2020

- Course: Foundations of Medical Practice I and II
- Program: Island Medical Program University of British Columbia
 - * MEDD412 Neuroanatomy Bootcamp #1 (Year 1).
 - * MEDD412 Neuroanatomy Lab on Cranial Nerves V & VII and Pain (Year 1).
 - * MEDD412 Neuroanatomy Lab on Eye Movements and Brainstem (Year 1).
 - * MEDD421 Neuroanatomy Lab on Cerebral Cortex, Functional Areas, and Blood Supply (Year 2).
 - * MEDD421 Neuroanatomy Lab on Control of Movement and Cerebellum (Year 2).
 - * MEDD422 Neuroanatomy Lab on Limbic System/Dementia (Year 2).

Honors & Awards

University of Victoria Fellowship Award, 2015	UVic-FGS
University of Victoria Student Travel Grant, 2016	UVic-FGS
University of Victoria Graduate Award, 2015 2017 2018 2019	UVic-FGS
James A. & Laurette Agnew Memorial Scholarship & Award, 2015 2016 2017 2018 2019	UVic-FGS
Vera Allen Travel Award for Medical Sciences, 2016 2017 2018 2019	UVic-FGS
Donald Wagg Graduate Scholarship, 2017 2018	UVic-FGS
BC Regenerative Medicine Travel Award, 2018	BCREGMED
International Gap Junction Conference NB Gilula Star Award, 2019	IGJC2019
John & Myrtle Tilley Graduate Scholarship, 2019	UVic-FGS

Presentations

ORAL PRESENTATIONS

International Gap Junction Conference

Star Award Talk: Pannexin 1 regulates neuronal networks and dendritic spine formation in cortical neurons

July 27-31, 2019

University of Victoria - Neuroscience Graduate Program Kick-Off

PANNEXIN 1 REGULATES CORTICAL DENDRITIC SPINE FORMATION

Victoria, BC. Canada September 14, 2018

Victoria, BC. Canada

BC Regenerative Medicine Symposium

PANNEXIN 1 IN NEURONAL DEVELOPMENT

Vancouver, BC. Canada

JMay 10, 2017

POSTER PRESENTATIONS

Writing_

A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

• Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Society Membership

ActiveStudent Member, Canadian Association for Neuroscience2015 - PresentActiveStudent Member, Society for Neuroscience2016 - PresdentActiveMember, Trainee Steering Committee - BC Regenerative Medicine Network2017 - Present

Education

University of VictoriaVictoria, BC. CanadaPHD IN NEUROSCIENCEJan. 2015 - April. 2020

• **Dissertation**: Pannexin 1 regulates dendritic spine formation.

- **GPA**: 8.2/9.0.
 - Relevant Coursework: Developmental neurobiology, Tools for the study of ion channels.

JANUARY 16, 2020 BYUNGJIN PARK · RÉSUMÉ

Cali, Valle. Colombia

DOCTOR OF MEDICINE

Aug. 2007 - Oct. 2014

- Pre-Diploma Rotatory Internship: Hospital Universitario del Valle ESE Universidad del Valle. Cali, Valle. Colombia.
- Research Internship: Centro de Estudios Cerebrales (Centre for Brain Studies). Universidad del Valle. Cali, Valle. Colombia
 - Area of study: Cerebral cortex cytoarchitectonics, functional neuronatomy, diffuse traumatic brain injury and ischemic stroke models in rats. Supervisors: Prof. Hernan Pimienta, Prof. Marhta Escobar, and Prof. Efrain Buritica.
- Observership: Functional Neurosurgery. Department of Neurosurgery. University of Illinois Hospital & Health Sciences System. University of Illinois at Chicago, IL. USA. Supervisor: Dr. Konstantin Slavin.
- Professional elective: Neurosurgery and Neurocritical Care. Department of Neurosurgery. Hospital Universitario del Valle ESE Universidad del Valle. Cali, Valle. Colombia.
- **GPA**: 4.4/5.0.
 - Relevant Coursework: Functional Neuroanatomy, Cerebral cortex cytoarchitectonics, Scientific Integrity, Bio-statistics, Addiction and Pharmacology, Systems Pathology

Service & Leadership

BC Regenerative Network (BCREGMED)

Victoria & Vancouver, BC. Canada

TRAINEE STEERING COMMITTEE

Feb. 2017 - PRESENT

- Co-editor for the BC Regenerative Medicine Network Newsletter.
- Member of the BCREGMED Symposium Organizing and Scientific committee.

CIHR Brain Bee - Victoria Chapter

Victoria, BC. Canada

ORGANIZER

2017 - PRESENT

- Organized and coordinated social media for the Victoria Brain Bee. Mentored high school students from the Greater Victoria Area who participated
 in the Brain Bee competition.
- · Secured funding to sponsor Victoria Brain Bee winners traveling to the CIHR National Brain Bee.

Neuroscience Graduate Student Association (NGSA)

Victoria & Vancouver, BC. Canada

STUDENT MEMBER

2017 - PRESENT

- Student Representative Division of Medical Sciences.
- Member of the Organizing Committee for the Neuroscience Graduate Program Kick-Off. Liased and recruited keynote speakers for seminar lectures.

Let's Talk Science - UVic

Victoria, BC. Canada

VOLUNTEER

Oct 2018 - PRESENT

Jun. 2017 - Oct. 2018

• Involved in Neuroscience Outreach talks and high school science excursions at the University of Victoria - Division of Medical Sciences.

Lecturio GmbHLeipzig, Germany

• Produced, edited and copyedited medical exam- and licensing exam-like questions (USMLE Step1 and Step 2CK style questions).

UVic's Women in Science)

Victoria, BC. Canada

Volunteer

Jan. 2020 - PRESENT

• Involved in the Peer-Mentorship Program as Graduate Mentor.

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