

## **JUAN CARLOS RAMIREZ**

**2124 Naomi Street | Houston, TX 77054 | 850-549-8676 | juancarr@bcm.edu**

### **EDUCATION**

Baylor College of Medicine – Houston, TX July 2019 – May 2026/2027  
Current M.D./Ph.D. Candidate, GS1  
Medical Scientist Training Program  
Quantitative and Computational Biosciences Program

Johns Hopkins University – School of Arts and Sciences, Baltimore, MD May 2018 – May 2019  
Earned Masters in Biotechnology

- Immunology, Cancer Genomics, and Bioinformatics.

University of West Florida, Pensacola FL January 2015 - August 2017  
Earned Bachelor of Science in Biology

- Major: Biology, Pre-professional / Minors: Psychology
- GPA: 3.84; (Magna Cum Laude)
- Related coursework:
  - Received the Office of Undergraduate Research grant award for spring 2017 to study zebrafish optic nerve cell regeneration with Dr. Taylor.
  - Attended Johns Hopkins University Summer Internship Program in the summer of 2016 to conduct undergraduate research on Yeast RNA polymerase with Dr. Jeffrey Corden.
  - Conducted Undergraduate Directed Independent Study Research on Histone Acetylation in spring 2016 with Dr. Philip Ryals.
- Dean's List: 5 semesters (Spring 2015-Spring 2016)
- President's List: 2 semesters Fall 2016 – Spring 2017
- Alpha Epsilon Delta – Premedical Honor Society: Spring 2015 to Current date.
- Phi Theta Kappa Honor Society – Transfer Scholarship Awarded Spring 2015

Northwest Florida State College, Pensacola FL August 2013 - December 2014  
Associate of Arts in General Studies

- GPA: 3.78 (Cum Laude)
- Dean's List: 3 semesters (Spring 2014-Fall 2014)
- Phi Theta Kappa Honor Society – Fall 2014

## BIOMEDICAL RESEARCH EXPERIENCE

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|--|---------------------------|
| Johns Hopkins University School of Medicine, Baltimore MD<br><i>Doctoral Diversity Program – 2-year Post-Baccalaureate Research Scholarship</i>  | July 2017 – July 2019     |
| <ul style="list-style-type: none"><li>Study breast cancer and metastasis using the murine mammary gland and lung model at the Center for Cell Dynamics under the direction of Dr. Andrew J. Ewald.</li><li>Publication: <i>J Cell Biol</i> (2020) 219 (9): e202001134.</li></ul> |                           |
| University of West Florida, Pensacola FL<br><i>Office of Undergraduate Research Program – Semester Project</i>   | January 2017 – July 2017  |
| <ul style="list-style-type: none"><li>Awarded \$1,000 undergraduate research grant to conduct research on the involvement of nervous tissue regeneration gene <i>Atoh1</i> in the Zebrafish model.</li></ul>   |                           |
| Johns Hopkins University School of Medicine, Baltimore MD<br><i>Summer Internship Program – Research for Undergraduate Experience</i>  | May 2016 – July 2016      |
| <ul style="list-style-type: none"><li>Study the effects of serial deletions of low complexity domain motif in Yeast Nab3 RNA-binding protein.</li></ul>  |                           |
| University of West Florida, Pensacola FL<br><i>Directed Independent Study – Undergraduate Research: Histone Acetylation</i>  | January 2016 – April 2016 |
| <ul style="list-style-type: none"><li>Explore biochemical pathways in alterations of phosphoinositides in <i>Tetrahymena patula</i> undergoing “de-differentiation” induced by valproic acid.</li></ul>  |                           |

## LEADERSHIP

- |   |                         |
|---|-------------------------|
| Baylor College of Medicine – Houston, TX<br>Current M.D./Ph.D. Candidate, GS1<br>Medical Scientist Training Program   | November 2019 - Present |
| <ul style="list-style-type: none"><li>Currently serve as President for the Baylor College of Medicine <i>Resonance</i> podcast with additional duties of sound engineer and writer. Former Vice President.</li><li>Former Vice President for the Latino Medical Student Association</li></ul> |                         |
| University of West Florida, Pensacola FL<br>American Medical Student Association, Premedical Chapter  | Fall 2015 – Spring 2017 |
| <ul style="list-style-type: none"><li>Served as President from fall 2016 to spring 2017; coordinated club meetings, volunteer opportunities, premedical seminars, fundraisers, and in-/out – of state medical school conferences for 103 active members.</li></ul>                            |                         |

- Served as Vice President from fall of 2015 to spring 2016; assisted in coordinating club meetings, volunteer opportunities, and premedical seminars for over 60 members.

## LEADERSHIP (CONTINUED)

United States Army – 7<sup>th</sup> Special Forces Group (A)  
Operational Detachment Alpha 7312

June 2005 – April 2014

- Served as Senior Medical Sergeant on Operational Detachment Alpha 7312
- Worked with foreign local national physicians overseas in combat zones and clinical hospital settings
- Managed all immunizations, administrative medical information, and maintained the overall well-being of 12 members of Operational Detachment Alpha 7312, stateside and abroad.
- Administered all medications, medical training equipment, first aid, and advanced medical interventions to all members of detachment and foreign Special Forces detachments.
- Performed a wide range of clinical skills, along with critical surgical skills, and life-saving interventions.  
(Endotracheal intubations, IVs, sutures, cricoidthyroidotomy, etc.)
- Reported weekly and monthly to Special Operations Command from commanding outposts while on combat and training missions for Medical Evacuation and treatment purposes.
- Conducted medical reports to higher medical commanding staff during medical emergencies and routine pre/post-deployment preparations.

## VOLUNTEER

University of West Florida, Pensacola FL

Spring 2016 – Spring 2017

- Collaborated with fellow students and Habitat for Humanity to build homes for local families, providing over 30 service hours.
- Participated in providing cooked meals for families at the local Ronald McDonald House.
- Provided support in a fund-raising event for the Pensacola Mathematics, Engineering, Science, and Stuff (MESS) Hall for children.
- Camp Volunteers with Children's Sacred Heart Hospital

## SKILLS

- Languages: Spanish (Fluent)
- Computer Programming experience with Python, SQL, R, HTML5, and CSS3
- Basic Science Research: Cell culture and advanced microscopy experience.
- Sound engineer and writer for *Resonance* podcast.
- Communication skills in interviewing faculty as part of *Resonance* podcast

- Conflict resolution using individual and collaborative methods.
- Endurance athlete: ultra-running and triathlon.

## OTHER EXPERIENCE/EMPLOYMENT

United States Army, 7<sup>th</sup> Special Forces Group (A)  
Special Forces Medical Sergeant

May 2010 - April 2014

- Managed and maintained \$250,000 in medical equipment.
- Provided primary care for 12 members of the Operational Detachment Alpha 7312 during training and combat operations.
- Conducted and managed self-sustained clinics in third world countries in austere environments.
- Provided medical training for large groups of non-medical military personnel, both foreign and domestic.
- Provided medical intelligence and facilitated medical evacuations.

United States Army, John F. Kennedy Special Warfare Center and School  
Special Forces Qualification Course, Completion of:

June 2008 – May 2010

- Phase I: (7 weeks) Unconventional warfare, introduction to Special Forces, Critical Skills Training (CST), Advanced Non-commissioned Officer Leadership Course, airborne operations, military decision-making and planning, operational culture and regional analysis.
- Phase II: (13 weeks) Small Unit Tactics in advanced marksmanship, urban operations, mission analysis, sensitive-site exploitation, SERE Level C (Survival, Evasion, Resistance, and Escape).
- Phase III: (tested out) Language and Culture in Spanish.
- Phase IV: (56 weeks) Special Forces Medical Sergeant: trauma management, infectious disease, advanced cardiac life support (ACLS), anesthesia, surgery, basic understanding of veterinary and dental medicine. Gained proficiency in providing emergency, routine, and long-term medical care for detachment members, allied U.S. members, and foreign host-nation personnel. Gained proficiency in medical planning, medical threat assessments, and gained Emergency Medical Technician (EMT) certification. Certified in Basic Life Support (BLS), Pediatric Education for Prehospital Professionals (PEPP), and Advanced Cardiac Life Support Instructor (ACLS). Trained in public sanitation, water quality enforcement, and optometry. Completed one month of Trauma Rotation at Virginia Commonwealth University Medical Center, Virginia and one month of Special Operations Clinical Training at Fort Benning, Georgia.
- Phase V: (4 weeks) Unconventional Warfare Culmination Exercise (CULEX) (Robin Sage) Completed training in real-world scenario to exercise both individual and team-based problem-solving using skills learned throughout qualification course and critical thinking skills to assist guerrilla forces in counterinsurgency operations in an environment of political instability.

United States Army, A Company, 2<sup>nd</sup> BN, 5<sup>th</sup> Cavalry Division  
Fire Team Leader, 2<sup>nd</sup> Squad

June 2005 – May 2008

- Managed fire team of 5 soldiers in combat environment during Operation Iraqi Freedom (OIF) combat deployment from October 2006 to January 2008.
- Operated mine detector and M249 squad automatic weapon (SAW)
- Operated M240B Crew-served machine gun.

#### HONORS AND AWARDS

- Army Commendation Medal with cluster device for actions taken under enemy fire to treat and evacuate wounded casualties in Iraq, 2007.
- Purple Heart awarded for injuries sustained as a result of enemy contact in Iraq 2007.
- Special Forces tab and Green Beret awarded after completion of Special Forces Qualification Course in 2009.
- Bronze Star Medal for Meritorious Service while serving in the line of duty as a Special Forces Medical Sergeant in Afghanistan in 2010-2011.
- Dean's List: 3 semesters of 4.0 from Spring 2014 to Fall 2014 and induction to Phi Theta Kappa Honor Society at Northwest Florida State College (Cum Laude)
- Phi Theta Kappa Honor Society Transfer Scholarship, Spring 2015
- President's List for 2 semesters from Fall 2016 to Spring 2017 at the University of West Florida
- Dean's List for 5 semesters from Spring 2015 to Spring 2016 at the University of West Florida (Magna Cum Laude)
- 1<sup>st</sup> place in Best Poster at Office of Undergraduate Research (OUR) Symposium out of 200+ participants at the University of West Florida in May of 2017.
- Doctoral Diversity Program Scholarship: 2 years post-baccalaureate research at Johns Hopkins University School of Medicine from 2017 to 2019, \$28k annual.
- 3<sup>rd</sup> place in 100-mile race at the Dinosaur Valley State Park in Grapeland, Texas in December 2019.