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**EDUCATION**

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**Johns Hopkins University, Baltimore, MD**

- Bachelor of Arts in Mathematics (Pre-Med Focus)
- Current Cumulative GPA: 3.93
- Dean's List

**Expected May 2015****Fall 2011 – Spring 2014**

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**RESEARCH EXPERIENCE**

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**Lab Assistant, Johns Hopkins School of Medicine, Baltimore, MD****May 2012 – Present**

- Mentor: Dr. Kenneth W. Witwer
- Retrovirus Laboratory of the Department of Molecular and Comparative Pathobiology
- Current project is investigating the role of microRNAs in SIV and IFN-beta treated macaque astrocytes
- Utilize laboratory techniques such as RT-PCR, cell culturing and separation, small RNA seq library preparation, and microarrays
- Performed microarray and RNA seq analysis using Tuxedo tools and R
- Attended Practical Genomics Workshop 2013 at the Johns Hopkins University Medical Institutions
- Attended Galaxy Community Conference Training Day 2014
- Poster presentations:
  - UMBC Biochemistry/Chemistry Undergraduate Research Symposium 2012
  - Conference on Retroviruses and Opportunistic Infections 2013
  - Provost's Undergraduate Research Award Poster Presentation 2014
  - CFAR Annual Meeting 2014

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**AWARDS AND PUBLICATIONS**

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**Young Investigator Award****March 2013**

- Awarded by Conference on Retroviruses and Opportunistic Infections (CROI) 2013
- Abstract: *SIV Infection and Interferon- $\beta$  Modulate microRNA Profiles of Macaque Astrocytes* accepted and presented at CROI

**Provost's Undergraduate Research Award****Summer 2013**

- Awarded by the Johns Hopkins University
- Project: *miRNA-Target Networks in SIV-infected and IFN-Treated Macaque Astrocytes*

**Dean's Undergraduate Research Award****Summer 2014 – Spring 2015**

- Awarded by the Johns Hopkins University
- Continuation of project: *miRNA-Target Networks in SIV-infected and IFN-Treated Macaque Astrocytes*

**Baltimore HIV/AIDS CFAR Scholar****Summer 2014**

- Awarded by the Johns Hopkins University Center for AIDS Research
- Awarded to fund a 9 week internship in the laboratory of Dr. Kenneth W. Witwer

Yu IW, **Espinoza DA**, McAlexander MA, Witwer KW, *OpenArray profiling reveals no differential modulation of miRNA by positive and negative CD4+ T-cell immunoselection*. Experimental Hematology (2013)

- Co-First Author

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**STUDEN ORGANIZATIONS, COMMUNITY SERVICE, AND VOLUNTEER WORK**

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**Musicare, Baltimore, MD****Fall 2011**

- Played keyboard in musical events at children's centers in Baltimore City
- Played in Christmas show at Kennedy Krieger Institute

**Bilingual Interpreter, Baltimore, MD****Fall 2011-Spring 2012**

- Volunteered as a bilingual translator at the Baltimore City Eastern Medical Clinic
- Facilitated conversations between hospital staff and East Baltimore residents
- Volunteered weekly as part of SALUD club at the Johns Hopkins University

**ESL Tutor, Esperanza Center, Baltimore, MD****Fall 2012- Spring 2013**

- Volunteered as an ESL tutor for East Baltimore residents learning English
- Bi-weekly at the Esperanza Center in Baltimore, MD

- Medical Mission Volunteer, Chincha and Pisco, Peru** **June 2012 and June 2014**
- Part of Peruvian American Medical Society Missions
  - Serving a poor and underdeveloped population in Peru
  - Bilingual translator for physicians, patients, and other volunteers
  - Took weight and blood pressure readings for patients in triage unit of the clinics
  - Shadowed physicians in Neurology, Infectious Disease, and General Medicine
- Private Tutor, Baltimore, MD** **Fall 2012 – Spring 2013**
- Served as private tutor for high school student in Baltimore City
  - Tutored AP Calculus BC during the school year and winter break
- Member, Alpha Epsilon Delta Pre-Health Honor Society, Baltimore, MD** **Fall 2012 – Present**
- Member of Maryland Alpha Chapter
  - Serve as mentor to high school seniors at Baltimore City College
- Tutor, JHU Tutorial Project, Baltimore, MD** **Spring 2012**
- Tutored 3<sup>rd</sup> grade child one-on-one in math, reading, and writing, twice a week
- Student Organizer, JHU Tutorial Project, Baltimore, MD** **Fall 2012 – Spring 2013**
- Oversaw 5 tutor-tutee pairs in Fall 2012 and Spring 2013
  - Responsible for performing assessments on children and monitoring progress
- Student Director, JHU Tutorial Project, Baltimore, MD** **Fall 2013 – Present**
- Oversee the Johns Hopkins Tutorial Project Monday/Wednesday Program
  - Responsible for scheduling assessments/enrolling 60 children into program
  - Responsible for interviewing/enrolling 60+ tutors into program
  - Responsible for interviewing/choosing 11 student organizers and supervising them
  - Responsible for contacting Baltimore City public schools to set up bus routes in order to provide transportation for children to and from program
  - Supervise all children and maintain steady flow of contact with their schools and parents
- Vice President, Johns Hopkins University Club Baseball Team, Baltimore, MD** **Fall 2013 – Present**
- Founding member of JHU Club Baseball Team in Fall 2013
  - Elected Vice President in Spring 2014
  - Responsible for aiding in organization of team practices/activities
  - Help President in maintaining contact with National Club Baseball Association

## **ACTIVITIES AND SKILLS**

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- Native Spanish speaker (first language), fluent in English
- Play Piano (private lessons since 1<sup>st</sup> Grade) and Electric Guitar (self-taught)
- Basic skills in Java, C, and C++ programming languages, and R (statistical programming language)
- Shadowing experience at the Johns Hopkins Hospital