

Joseph Kretowicz

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Education

Michigan State University

August 2013-Expected May 2017

Biosystems Engineering B.S. | East Lansing, MI

- 3.83/4.00 Cumulative GPA (160 Credits)
- **3.90/4.00 Engineering GPA**
- Striving for an additional major in Japanese and a concentration in Biomedical Engineering
- Honors College Member

University of the Ryukyus

September 2015-August 2016

Japanese Language Immersion | Okinawa, Japan

- Learned verbal and nonverbal communication strategies in a globalized classroom
- Attained proficiency in Japanese language and culture
- Participated as the only American among students from approximately 15 different countries
- Exhibited dedication to study the hardest language for Native-English speakers to master
- Translated and Interpreted Japanese to English/Spanish as a professional for three months

Experience

Biosystems Engineering Teaching Assistant

September 2016-Present

Michigan State University | Bradley Marks Ph.D. | East Lansing, MI

- Facilitate students' understanding of class material for Intro to Biosystems Engineering (BE 101)
- Advise incoming Freshman on available academic and career options within and outside of the Biosystems Engineering program

Van Andel Institute Internship

May 2015-September 2015

Van Andel Institute | Brian Haab Ph.D. | Grand Rapids, MI

- Designed biomedical sensors to detect early-stage pancreatic cancer in human samples
- Synthesized macromolecules to function as controls for these biosensors
- Optimized numerous biochemical reactions via biocatalysts under economic constraints

Lab Technician

August 2014-May 2015

Michigan State University | Keith Latham Ph.D. | East Lansing, MI

- Collaborated with a Biomedical Engineering Laboratory at the University of Michigan
- Conducted ovarian research using a mouse model

Summer Research Internship

May 2014-August 2014

Michigan State University | Asgi Fazleabas Ph.D. | Grand Rapids, MI

- Employed multidisciplinary engineering technology to model genetic diseases in humans
- Researched infertility in human women by working with human placentas and cell lines

Professorial Research Assistant

August 2013-May 2014

Michigan State University | Yair Shachar-Hill Ph.D. | East Lansing, MI

- Worked with prokaryotic human pathogens
- Modeled biological growth in MATLAB based on collected NMR data

Skills

- Proficient in Microsoft Excel, PowerPoint, and Tracker
- Familiar with Eclipse (Java), Visual Studio (C++), FBIDE (Visual Basic), MATLAB
- Proficient in Japanese and Spanish