

# Grethel “Alexandra” Juarez

📍 East Lansing, MI, United States ✉️ gajuarez5435@gmail.com 📞 3128904240 🌐 <https://juarezgr.github.io/>

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## EDUCATION

### Bachelor of Science in Biology and Minor in Biostatistics

May 2024

Loyola University Chicago

GPA: 3.7

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## RESEARCH EXPERIENCES

### Research Assistant – Vocal Development

September 2024 - Present

*Analyzing Socially Learned Vocalizations in Zebra Finches*

The Smith-Vidaurre (BIRDS) Lab, Michigan State University

- Conduct daily animal husbandry tasks for zebra finches
- Run lab work such as DNA extraction, PCR, and gel electrophoresis
- Record bird vocalizations and analyze on Raven to identify socially learned calls
- Troubleshoot technology and develop code for issues, unit tests, and vignettes using R and GitHub
- Mentor undergraduate researchers in the lab

### Research Assistant

January 2022 - May 2024

*Evaluating Sexual Dimorphism in Spotted Sandpipers*

Lipshutz Lab, Loyola University Chicago

- Discussed publications about endocrinology, behavior, evolution, and genomics
- Conducted lab work including DNA extraction, PCR, gel electrophoresis
- Statistically analyzed sex differences in morphology by generating figures with RStudio
- Recorded bird vocalizations with Marantz and AudioMoths later analyzed in Raven
- Funded by two Mulcahy Scholarships and a Biology Summer Research Fellowship

### Field Technician

May - July 2022

Undergraduate Summer Research Program, Loyola University Chicago + UC Davis

- Facilitated mist-net setup, morphological measurements, banding, blood sampling, radio telemetry, nest monitoring, and acoustic recording
- Hiked 3-5 miles daily at ~6,400 ft elevation carrying field gear in the Mono Basin, CA
- Optimized daily field data entry in Excel

### First-Year Researcher

January - July 2021

First-Year Research Experience (FYRE), Loyola University Chicago

- Discussed publications on computational chemistry and presented a Virtual Pitch
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## ACADEMIC AND FIELD SKILLS

- Software experience with Excel/Word/Powerpoint, Canva, R Studio, Raven, and GitHub
  - Mist netting, Radio Telemetry, Marantz Recording
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## RELEVANT COURSEWORK

- Ecology, Evolution, Evolutionary Medicine, Infectious Diseases in Wildlife
- General Biology, Genetics, Cell Biology, Anatomy & Physiology, Introduction to Research
- Introductory Biostatistics, Advanced Biostatistics, Linear Regression (based on R)
- Inorganic Chemistry, Organic Chemistry, Biochemistry, Physics I and II

## RELEVANT EXPERIENCES

<b>Conference Volunteer</b> , American Ornithology Society	1 October - 5 October 2024
<ul style="list-style-type: none"><li>Prepared technology for moderators and speakers during oral presentation sessions</li></ul>	
<b>Treasurer/Founder</b> , Latin Music Ensemble, Loyola University Chi.	January 2023 - May 2024
<ul style="list-style-type: none"><li>Coached and performed Latin music to promote and celebrate diversity on campus</li></ul>	
<b>Spanish Interpreter</b> , CommunityHealth Free Clinic	April 2022 - May 2024
<ul style="list-style-type: none"><li>Interpreted conversations between patients and doctors</li></ul>	
<b>Lead Singer/Vocal Instructor</b> , Patches & Albo	April 2022 - Present
<ul style="list-style-type: none"><li>Direct rehearsals and performances as the frontman and conceptualize setlists</li><li>Guide students (of all ages) in singing and performance techniques</li></ul>	
<b>President/Founder</b> , Care-olers	January 2022 - May 2024
<ul style="list-style-type: none"><li>Developed and performed music for the Lakefront Nursing and Rehabilitation Center</li></ul>	
<b>Treasurer/Secretary</b> , Mujeres en Medicina, Loyola University Chicago	January 2022 - May 2024
<ul style="list-style-type: none"><li>Mentored womxn pursuing a healthcare career and provided a supportive community</li></ul>	
<b>Medical Assistant</b> , Milwaukee Avenue Doctor's Office	December 2021 - May 2024
<ul style="list-style-type: none"><li>Examined and recorded patient vitals before the doctor's visit</li></ul>	
<b>Shadowing Student</b> , Loyola University Medical Center	November 2020 - 2021
<ul style="list-style-type: none"><li>Observed Director of Anesthesiology Department's daily work activities</li></ul>	
<b>Students Together Are Reaching Success (STARS) Mentor</b> , Loyola University Chicago	Aug 2020 - May 2024
<ul style="list-style-type: none"><li>Mentored incoming freshman through their transition to college</li></ul>	
<b>Licensed Real Estate Broker</b> , Bright Future Realty Inc.	July 2020 - May 2023
<ul style="list-style-type: none"><li>Negotiated prices of real estate property and scheduled property showings</li></ul>	

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## AWARDS AND HONORS (Total \$11,500)

- Building Community Bridges Scholarship, Loyola, 2023 (\$1000)
- The Animal Behavior Society Charles H. Turner Award, 2023
- Biology Summer Research Fellowship Program, Loyola, 2023 (\$3000)
- Mulcahy Scholarship, Loyola University Chicago, 2022 & 2023 (\$2000)
- STARS Mentor Scholarship, Loyola University Chicago, 2022 & 2023 (\$3000)
- College of Arts and Science Summer Research Experience, Loyola, 2022 (\$2500)

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## CONFERENCE PRESENTATIONS

**GA Juarez**, T Patton, Q Thomas, J Schaefer, SE Lipshutz. When females compete and male care: Phenotypic differences in the spotted sandpiper.

- Animal Behavior Society. Portland, OR. July 2023.
- Loyola Undergraduate Research and Engagement Symposium. April 2023.
- Chicago Area Undergraduate Research Symposium. Robert H. Lurie Medical Research Center, Chicago, IL. March 2023.
- American Ornithology Society. Estes Park, CO. October 2024.

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## LANGUAGES

Spanish, Native Proficiency  
English, Fluent