ALEXANDRA RIVERA

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EDUCATION

The University of Texas at Austin | Austin, TX Expected May 2022

Bachelor of Science in Biology

- Computational Biology Sequence
- **Relevant coursework:** Probability and Statistics, Computational Biology and Informatics, Lab Experience in Genetics, Elements of Computers/Programming, Biostatistics, Practical Linear Algebra

WORK EXPERIENCE

Westwood Country Club, *Tennis Coach* | Austin, TX June 2020 – Present

- Tailored bi-weekly tennis curriculum according to group progression for ages 4-13
- Lead various groups of children in tennis camp by organizing fun and inclusive games to stimulate active participation

The University of Texas Club, *Waitress* | Austin, TX February 2020 – August 2020

- Collaborated with a staff of 12 to organize the setup of banquet events for 50-100 people

Freshman Research Initiative, Urban Ecosystems Stream January 2018 – February 2020

Undergraduate Research Assistant and Peer Mentor |Austin, TX

- Lead a group of 3 incoming freshmen in the summer of 2019 to detect and analyze optical brighteners concentrations in Waller Creek for tracking sewage leaks
- Reviewed research papers and mentored groups of up to 5 junior research assistants

ACADEMIC PROJECTS

Labor Force Participation in the 1970's Current

- Statistical analysis with data mining to tidy, join, and create visualizations for the correlation between 5 variables from two different data sets using RStudio

Polycyclic Aromatic Hydrocarbon (PAH) Source Tracking January 2019- May 2019

- Analysis of excitation, emission plots, and a calibration curve regression model comparing known fluoranthene concentrations with diluted sample using Microsoft Excel
- Detectable quantification of fluoranthene in Waller Creek was discovered by using a fluorimetric instrument for source tracking
- Presented PAH detection in Waller Creek research findings at university-wide Undergraduate Research Forum in Spring 2019

HONORS AND AWARDS

Presidential Scholars Program May 2018

- Annual scholarship given to students with excellent academic credentials and high financial need

SKILLS

- **Technical Skills:** Microsoft Office: Excel; Familiar with R and Python
- English and Spanish fluency