

# RACHEL LOPES

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## EDUCATION

<b>The University of Texas at Austin</b>	Bachelor of Science, Computational Biology Certificate, Elements of Computing GPA: 3.749	May 2021
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## SKILLS & RELEVANT COURSEWORK

**Skills:** Java, C, Python, R, X86/Y86 Assembly, Bash

### Relevant Coursework:

- Intro to Programming (**Java**)
- Data Structures (**Java**)
- Biostatistics (**R**)
- Linear Algebra
- Discrete Mathematics
- Probability and Statistics
- Genetics

## WORK & VOLUNTEER EXPERIENCE

**Research Assistant, Functional Genomics Lab (Python)** September 2018 – Ongoing

- Learned how to read scientific research papers as well as how to perform fundamental wet lab techniques
- Computationally analyzed the CBioPortal and ExAC databases in order to compare mutations along the genes that encode the H4 histone to test whether any of these mutations may have deleterious effects

**Research Assistant, Social Harmony Lab** September 2018 – May 2019

- Assisted in conducting in-person studies regarding the foot-in-the-door versus the door-in-the-face theory and how biases shape the manner in which people engage anonymously online

**Volunteer, Christ Clinic Katy** June 2018 – August 2018

- Faxed patient information papers, checked records against updated patient information, and flagged and updated the patient record database when discrepancies were found
- Greeted and checked in patients for their scheduled appointments

**Volunteer, Ronald McDonald House** January 2018 – Ongoing

- Cleaned rooms and aided with household chores to ensure that the house remained clean and well-stocked for residents
- Delivered food and comfort items to inpatients in various units within Dell Children's Hospital

## ACTIVITIES

**Newsletter Coordinator and Rider, Texas 4000 for Cancer** January 2018 – August 2019

- Raised over \$6000, volunteered 50 hours in the community, and biked 2000 training miles as well as around 4000 miles from Austin, TX to Anchorage, AK to raise funds and awareness for cancer research and support services
- Designed, wrote, and edited monthly newsletters for the organization

**VP, Littlefield Residence Hall Council** Intern: 2017-2018 • VP: 2018-2019

- Organized events to help residents of Littlefield Residence Hall transition smoothly to on-campus living
- Helped facilitate council meetings and created a record of the events currently running as well as their efficiency and possibilities for improvement for future Residence Hall Councils

**Welch Summer Scholar Research Program** June 2016 – July 2016

- Conducted computational chemistry research under mentor guidance at the University of Texas at Arlington
- Used the command line in accordance with other programs to study the NMR shifts as well as the coordinations of theoretical silicon nitride structures to learn more about amorphous silicon nitride