

# Rayyan Merchant

✉ rayyan.merchant@gmail.com

🐦 @rayyanmerchan

in Rayyan Merchant

🌐 <http://merchantrayyan.github.io/>



## Education

- 2019 – 2023 (expected)    📖 **University of Florida, Gainesville, FL**  
B.Sc. Computer Science, B.A. Linguistics  
GPA: 3.60/4.00
- Apr. - Aug. 2022    📖 **RWTH Aachen, Aachen, Germany**  
Spring Semester Exchange

## Research Experience

- 2019-Present    📖 **Speech, Lexicon, and Modeling Laboratory**  
Undergraduate Researcher (<https://slam.phil.hhu.de>)  
Supervisor: Dr. Kevin Tang
- Utilizing neural models to attempt translation through transliteration between Iranian/Afghan Persian and Tajik Persian, written in the Perso-Arabic and Tajik-Cyrillic scripts, respectively
  - Examining ways to computationally detect differences between dialects of Spanish through analyzation of Spanish-language corpora with text collected from the Internet and subtitles
  - Wrote code in Python to automate Internet text mining, as well as filter, split, and analyze corpora

## Research Presentations

- 1 **Rayyan Merchant** and Kevin Tang, "Connecting the Persian-speaking World through Transliteration," The 3rd North American Conference in Iranian Linguistics, Los Angeles, CA., Apr. 2023, 20-minute talk with 10-minute QA.
- 2 **Rayyan Merchant** and Kevin Tang, "Translating through transliteration: the case of Tajik Persian," The 98th Annual Meeting of the *Linguistic Society of America*, Denver, Colorado., Jan. 2023, Poster available to view [online](#).

## Projects

- 2021    📖 **A Simulation Study Exploring the Role of Pronouns in Gender Stereotypes**  
LIN4930 (Comp. Ling.) Final Project
- With a team member, brainstormed, planned, and carried out an original research project.
  - Investigated the impact of pronouns on gender bias by making gendered pronouns gender-neutral (singular 'they' and neopronoun 'ze') and measuring the association between gendered words and occupations with word embeddings.

## Additional Experience

Aug. 2021 - Mar. 2022



### George A. Smathers Libraries at U.F.,

*Paid Transcription Assistant (20 hrs/week)*

- Manually transcribed, organized, and summarized interviews as part of the Native American Oral History Project funded by the Doris Duke Charitable Foundation.

## Skills

Languages	English (native), Spanish (proficient), Portuguese (proficient), German (proficient), Persian (proficient), Turkish (conversational), Urdu (conversational), Konkani (conversational)
Coding	Python, C++, Java R, SQL
Libraries	NLTK, Pandas, ScraPy, JoeyNMT, Matplotlib, NumPy, SpaCy


## Awards

2023	<b>Summer Undergraduate International Research Program</b> \$5,000 scholarship to conduct thesis research at Heinrich-Heine University in Germany
2022,2023	<b>Wentworth Travel Scholarship</b> \$500 scholarship from UF Honors for conference travel and studies at the Belgian Carillon School
2021	<b>University Scholars Program</b> One of 200 students across UF selected to work one-one-one with a faculty member on a research project of the student's choice with a \$1,750 stipend
2020	<b>Boren STEM Summer Scholarship</b> \$8,000 State Department scholarship to study Tajik Persian in Tajikistan <i>Canceled due to COVID</i>
2019	<b>University Research Scholars Program</b> Invitation-only introductory research program at UF
2018	<b>Benacquisto Scholarship</b> Full-ride scholarship as National Merit Finalist for estimated cost of attendance at UF
	<b>National Security Language Initiative for Youth (NSLI-Y)</b> State Department scholarship to study Tajik Persian in Tajikistan
2017	<b>Eagle Scout</b>

## Miscellaneous Experience

---



### Volunteering

- 2023-Present      **Samuel Proctor Oral History Program,**
- Conducting and manually transcribing oral history interviews
  - Manually annotating transcripts for African American English grammatical features

### Certification

- 2020      **Advanced Low in Tajiki (Tajik Persian).**  
Awarded by the American Council on the Teaching of Foreign Languages

### Music

- 2021-Present      **Carillon**  
Play the carillon in UF's Century Tower under the tutelage of Dr. Laura Ellis. Also received instruction from Luc Rombouts of the Belgian Royal Carillon School.
- 2015-2019      **Classical Voice**  
Participated in high school choir all four years, making it to the Florida All-State Concert Choir twice and achieving Superiors at Florida Vocal and Ensemble three times.