

# DANIEL ANTONIO RAZO

Applied Mathematician in Data Science and Linguistics

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## EDUCATION

M.C.S. Computer Science

Utah Valley University

August 2022 - Current

Research: Decision tree pruning via residuals of high-dimensional linear regression (in progress)

M.A. Linguistics, emphasis in Formal Semantics

University of Utah

August 2018 - June 2020

Thesis title: Spanish adverbials: scales and repetition

B.A. Linguistics

University of Utah

January 2016 - May 2017

## PROJECTS & PUBLICATIONS

### Projects

- Razo, Daniel (2022a). *Practice with Kalman Filtering*. URL: <https://github.com/razodan/kalmanfilter>.
- (2022b). *Teaching Assignments with Integer Programming*. URL: [https://github.com/razodan/scheduling\\_assignments](https://github.com/razodan/scheduling_assignments).

### Thesis

- Razo, Daniel (2024). "Pruning decision trees via residuals of high-dimensional multiple linear regression". Orem, UT: Utah Valley University.
- (2020). "Spanish adverbials: Scales and repetition". Salt Lake City, UT: University of Utah.

### Presentations

- Razo, Daniel (2023). *An Intro to Natural Language Processing*. Utah Valley University Data Science Club Master Class Series.
- (2019). *Ya, todavía, and aún: Towards formalizing some meanings and uses of Spanish aspectual adverbials*. University of Utah Student Conference in Linguistics (UUSCIL).
- Razo, Daniel, Aniko Csirmaz, and Benjamin Slade (2019). *Spanish aspectual adverbials*. 49th Meeting of the Linguistic Association of the Southwest (LASSO).
- Razo, Daniel (2018). *Repetitives in Spanish, from older varieties to Modern Spanish*. University of Utah Undergraduate Research Symposium (URS).
- Razo, Daniel and Joselyn Rodriguez (2018). *Synchronic and diachronic analyses of compensatory lengthening*. University of Utah Student Conference in Linguistics (UUSCIL).
- Razo, Daniel, Yulia Brown, et al. (2017). *Welcome to the python ramen bar*. University of Utah Student Conference in Linguistics (UUSCIL).

## EXPERIENCE

Instructional Assistant Lab Manager

Utah Valley University Dept. of Computer Science

May 2022 - Current

Artificial Intelligence, Database Management, Causal Inference, Operating Systems, C++ Programming, Intro to Algorithms

Adjunct Instructor

Utah Valley University

May 2023 - August 2023

C++ Programming, Intro to Algorithms

Teaching Assistant

University of Utah College of Humanities

August 2018 - May 2020

Syntax, Semantics, Phonetic & Phonology, Bad Words & Taboo Terms

## SKILLS

Kalman Filtering	Integer Programming
Causal Inference	Abstract Algebra
Linear Regression	Decision Trees
Tensorflow	Jupyter
	Pandas

## PROGRAMMING LANGUAGES

Python	● ● ● ● ●
C/C++	● ● ● ● ●
TeX	● ● ● ● ●
PostgreSQL	● ● ● ● ●

## NATURAL LANGUAGES

English	● ● ● ● ●
Spanish	● ● ● ● ●
Italian	● ● ● ● ●
Mandarin Chinese	● ● ● ● ●