

# Rodolfo Corona Rodriguez

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## Education

**University of California Berkeley**  
*PhD in Computer Science*

Berkeley, CA  
Starting Fall 2019

**University of Amsterdam**  
*Fulbright Student Research Grant*

Amsterdam, Netherlands  
August 2018 - June 2019

**University of Texas at Austin**  
*B.S., Computer Science*  
*Turing Scholar, McNair Scholar*  
GPA: 3.84

Austin, TX  
May 2018

Honors Thesis: *An Analysis of Using Semantic Parsing for Speech Recognition*  
Relevant Coursework: Advanced Geometry Processing (G), Natural Language Processing (G), Robot Learning from Demonstration (G), Artificial Intelligence (H), Introduction to Computer Science Research (H), Undergraduate Reading and Research, Algorithms and Complexity (H), Programming Languages (H), Theory of Computation, Linear Algebra and Matrix Theory, Probability I  
*G denotes graduate course, H denotes honors course*

**Cornell, Maryland, Max Planck**  
**Pre-doctoral Research School**

Saarbrücken, Germany  
August 8 - 13, 2017

*Held at Max Planck Institute for Software Systems*

Summer school on a variety of topics within computer science research.

**Jelinek Memorial Summer School**

Pittsburgh, PA

*Held at Carnegie Mellon University*

June 18 - 30, 2017

Two week summer school for topics in language technologies and machine learning. Part of the Jelinek Memorial Summer Workshop.

## Interests

Representation Learning, Multimodal Machine Learning, Natural Language Processing, Computer Vision, Language Grounding, Robotics, Interpretable Machine Learning.

## Publications

[1] **Corona, R.**, Thomason, J., and Mooney, R.J., “Improving Black-box Speech Recognition using Semantic Parsing.” *8th International Joint Conference on Natural Language Processing (IJCNLP)*, Taipei, Taiwan, Nov. 2017.

Research  
Experience

**University of Amsterdam**

Amsterdam, Netherlands

*Advised by Zeynep Akata*

Fall 2018 - Spring 2019

Research in explainable artificial intelligence (XAI), particularly in the area of multiagent systems at the intersection between computer vision and NLP.

**University of Texas at Austin**

Austin, TX

*Advised by Raymond J. Mooney*

Fall 2015 - Spring 2018

Collected speech dataset, annotated with transcripts and semantic forms, and researched use for semantic parsing in speech recognition. Also worked on projects at intersection between NLP and robotics, as well as NLP and computer graphics.

**University of Texas at Austin**

Austin, TX

*Advised by Qixing Huang*

Fall 2016 - Spring 2018

Augmented motion capture dataset with natural language descriptions through crowdsourcing. Worked on using deep learning techniques for generating 3D animations of human motion given natural language descriptions.

**University of Massachusetts Amherst, REU Intern**

Amherst, MA

*Advised by Joydeep Biswas*

Summer 2016

Implemented a particle filter for localization of an outdoor robot using wheel odometry and GPS sensors. Collected dataset of robot sensor readings to test particle filter. Inquired into methods for performing outdoor visual localization.

Research  
Presentations

IJCNLP 2017

Taipei, Taiwan

*Poster presentation*

Nov. 27 - Dec. 2, 2017

*Title: Improving Black-box Speech Recognition*

*Using Semantic Parsing*

2017 Gulf Coast Undergraduate Research Symposium

Rice University

*10-minute Oral Presentation*

Houston, TX

*Title: Improving Black-box Speech Recognition*

November 4, 2017

*Using Semantic Parsing*

**Outstanding Presentation Award**

2017 SACNAS Conference

Salt Lake City, UT

*Poster Presentation*

October 19 - 21, 2017

*Title: Improving Black-box Speech Recognition*

*Using Semantic Parsing*

**Presenter Award in Computer & Information Sciences**

19th Annual Texas National McNair Research Conference

Denton, TX

*10-minute oral presentation*

February 16-19, 2017

*Title: An Analysis of Using Semantic Parsing for*

*Speech Recognition*

Honors	Berkeley Chancellor's Fellowship	Fall 2019
	UT Austin College of Natural Sciences	Spring 2018
	Research Excellence Award	
	NAACL Scholarship for Jelinek Memorial Summer School	Summer 2017
	UT Austin College of Natural Sciences	Spring 2016
	Book Award for Academic Excellence	
	Tracor/Frank McBee, Jr. Scholarship	2015 - 2016 Academic Year
Activities	Coding in the Classroom	2017 - 2018 Academic Year
	<i>Helped teach elementary school kids to program Lego Mindstorm robots.</i>	
	RoboCup@Home 2017	Summer 2017
	<i>Worked on natural language processing components for UT Austin Villa team.</i>	
	<b>Team won 3<sup>rd</sup> Place</b>	
	EMNLP 2016	November 2016
	<i>Student Volunteer</i>	
	Undergraduate Research Journal	2015 - 2016 Academic Year
	<i>Natural Sciences Assistant Editor</i>	
	Theatre for Dialogue	2014 - 2015 Academic Year
	<i>Interactive theatre for educating UT students about interpersonal and relationship violence.</i>	
	Project M.A.L.E.S.	Fall 2014
	<i>Mentored at-risk high school students in the Austin area for college-readiness.</i>	