

# Ryan Moreno

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## PERSONAL STATEMENT

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My career goals are (1) to further foundational knowledge in computational theory, specifically complexity theory, through research and collaborations and (2) to empower others through teaching and mentorship. With these goals in mind, I aim to become a CS theory professor.

## EDUCATION

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<b>University of Southern California</b>	May 2020
<i>Bachelor of Science in Computer Science</i>	3.99 GPA
<i>Minor in English</i>	

## RESEARCH EXPERIENCE

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<b>USC Intelligence and Knowledge Discovery Research Lab</b>	Sep 2019 - present
<i>Merit Research Fellow</i>	
<ul style="list-style-type: none"><li>Created novel distantly-supervised machine learning techniques that use trigger phrases to recognize named entities in sentences</li></ul>	

<b>USC Undergraduate Honors Thesis</b>	Sep 2018 - present
<i>Advised by Dr. Xiang Ren</i>	
<ul style="list-style-type: none"><li>Completed a literature review of rule-based poetry generation and deep learning techniques for creative image and sound generation</li><li>Created and implemented a proposal to use deep learning for automated poetry generation</li><li>Presented my proposal at the Viterbi Student Speaker Symposium</li></ul>	

<b>USC Interaction Lab</b>	Jan 2017 - May 2017
<i>Merit Research Fellow</i>	
<ul style="list-style-type: none"><li>Developed socially-assistive robots to teach social skills to children with autism in a non-intimidating environment</li></ul>	

<b>Oregon State University Chemical Engineering Lab</b>	Jun 2015 - Aug 2015
<i>Research Intern</i>	
<ul style="list-style-type: none"><li>Fabricated microfluidic devices to measure extensional viscosity using 3D printing, photolithography, and soft lithography</li><li>Presented at the Apprenticeships in Science and Engineering Symposium</li></ul>	

## TEACHING EXPERIENCE

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<b>USC Viterbi Teaching Staff</b>	Aug 2017 - present
<i>Course Producer (essentially an undergraduate TA)</i>	
<i>CSCI 103: Introduction to Programming</i>	
<ul style="list-style-type: none"><li>Taught weekly lab sections, held office hours, graded assignments, and proctored and graded exams</li></ul>	

### *CSCI 170: Discrete Methods in Computer Science*

- Taught weekly discussion sections, created course content and supplemental materials, held office hours, graded assignments, and proctored and graded exams

### *CSCI 270: Introduction to Algorithms and the Theory of Computing*

- Taught weekly discussion sections, created course content and supplemental materials, held office hours, graded assignments, and proctored and graded exams

### **K-12 Tutoring and Classroom Assistance**

Aug 2016 - present

See “service” section below

## **INDUSTRY EXPERIENCE**

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### **Microsoft**

May 2019 - Aug 2019

#### *Software Development Intern*

- Created a feature supporting the import of Office documents into the Microsoft Whiteboard App (released to the public October 2019)
- Spanned product management, design, business operations, and software development
- Created code actions for Q# (Microsoft’s Quantum language) within VS Code

### **Facebook**

May 2018 - Jul 2018

#### *Software Development Intern*

- Implemented a new approach to app event tracking within Facebook’s software development kit for iOS apps
- Worked server-side and app-side for full stack development
- Designed a new timeline privacy setting as a hackathon project

### **Metro Paws**

May 2017 - Jul 2017

#### *Product Design Intern*

- Researched, interviewed, and selected alternate manufacturing facilities
- Redesigned a doggy bag dispenser and designed a cat bed and display using AutoCAD
- Researched alternate, eco-friendly materials

### **USC 3D4E**

Jan 2017 - May 2017

#### *Lab Tech*

- Held weekly lab hours to assist members with 3D printing

## **AWARDS**

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|---|---------------------|
| • Trustee Scholar Full-Tuition Scholarship (institutional award; 117 awarded) | Spring 2016         |
| • National Merit Scholar (national award; 0.475% acceptance)                  | Spring 2016         |
| • Viterbi Fellow (departmental award)   | Spring 2016         |
| • W.V.T Rusch Undergraduate Engineering Honors Program (departmental award)   | Spring 2016         |
| • Dean’s List (institutional award)   | Fall 2016 - present |

## **PRESENTATIONS**

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- Ryan Moreno. *Automated Poetry Generation using Deep Learning*. Viterbi Student Speaker Symposium, University of Southern California. November 2019.
- Ryan Moreno. *Introduction to Secure Mutli-Party Computation*. Cryptography: Secure Communication and Computation, University of Southern California. November 2019.

- Ryan Moreno. *Fabrication of Microfluidic Devices for Advanced Rheological Measurements*. Apprenticeships in Science and Engineering Symposium, Portland, OR. August 2015.

## CONFERENCES

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- Out for Undergrad: LGBTQ+ tech conference Sep 2018
- AthenaHacks: *received runner-up for best iOS app* Oct 2017
  - Created a “choose your own adventure” iOS app to teach children about bullying

## TECHNICAL SKILLS

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- *Programming Languages*: C++, C#, PHP, Java (*intermediate*)
- *Programming Languages*: Obj-C, Python, Prolog, Racket, JavaScript (*basic*)
- *CS Skills*: SQL, Networking (*basic*), LaTeX (*intermediate*)
- *Engineering Skills*: Solidworks, CAD, 3D Printing, Woodworking, Machining, Welding (*intermediate*)

## SERVICE

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**USC Troy Camp** Aug 2018 - present

*Counselor and Mentor*

- *TC Leads*: tutored and mentored high school students weekly
- *Elementary Tutoring*: tutored elementary school students weekly
- *Elementary Programming*: taught dance, PE, and sports programs
- *Summer Camp*: led a cabin of 4th graders during a week-long sleepaway camp

**USC Joint Educational Program**

Aug 2016 - Dec 2016

*Classroom Assistant*

Aug 2017 - Dec 2017

- Assisted in an 8th grade math class
- Taught a mini-course on poetry in a 5th grade English class

**USC Project 32**

Jan 2017 - May 2017

*Classroom Assistant*

- Assisted in a 12th grade study hall for students at risk of not graduating

**USC Robogals**

Jan 2017 - Dec 2017

*Events Chair*

- Engaged young students in STEM through Lego robotics and other workshops

## INTERESTS

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USC Triathlon Team, USC Outdoors Club, Ultimate Frisbee, Piano