

# Junlin Wang

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## Education

2016 – 2020 **Computer Science B.S. / Mathematics B.S.**, *University of California, Irvine*, Irvine, CA.  
Cumulative UCI GPA: 3.916  
Honors ICS Honors Program

## Research Experience

Current **Research Assistant**, *Prof. Sameer Singh*, 📅 Nov 2018 – Present .  
◦ Implemented adversarial attacks to a variety of Natural Language Processing models like Named Entity Recognition, Language Models, etc.  
◦ Co-authored a demo paper "AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models" at EMNLP 2019 and won the **Best Demo Reward**.  
◦ Submitting our work that automatically detect and remove data artifacts to ACL2020

Current **Lab Member**, *Deep Data Lab@UCI*, website, 📅 Jul 2018 – Present .  
◦ Analyzed major bank data to determine the likelihood of defaults using statistical analysis and machine learning.

Jul-Sep 2018 **Research Assistant**, *Regan's Group@UCI*, 📅 Jul 2018 – Sep 2018 .  
◦ Co-authored and published a paper "Improved Regressions with Convolutional Neural Networks for Surface Enhanced Raman Scattering Sensors" at SPIE Nanoscience + Engineering.

## Industry Experience

Jun-Sep 2019 **NLP Research Intern**, *Comcast Applied AI Research Lab*.  
📅 Jun 2019 – Sep 2019 📍 Washington, DC  
◦ Developed a novel training routine for the translation model used by the Xfinity X1 remote voice control. Found 257 data artifacts in the production data.  
◦ Developed a react data visualization tool for voice command queries.  
◦ Submitting my work to ICML2020

Jun-Aug 2015 **Software Engineer Intern**, *Crystal McKenzie Inc.*.  
📅 Jun 2015 – Aug 2015 📍 New York, NY  
◦ Assisted and developed the back-end of a new advertising platform using node.js and MySQL.

## Publications

### NLP

Nov 2019 **EMNLP, Best Demo Award**, AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models .

Eric Wallace, Jens Tuyls, **Junlin Wang**, Sanjay Subramanian, Matt Gardner, and Sameer Singh.

Link [paper](#) | [Loading Page](#) | [Demo](#)

### Other Publications

Sep 2019 **SPIE Nanoscience + Engineering**, Improved regressions with convolutional neural networks for surface enhanced Raman scattering sensing of metabolite biomarkers.

William John Thrift; Cuong Quoc Nguyen; **Junlin Wang**; Jason Ernest Kahn; Ruijun Dong; Andrew Benjamin Laird; Regina Ragan.

Link [paper](#)

## Projects

<https://isthatyou.github.io/pages/index.html>.

## Honors and Awards

Nov 2019	Best Demo Award	<i>EMNLP</i>
Apr 2019	Best Visualization	<i>DataFest</i>
Feb 2018	E-SURP fellowship	<i>The Edward Lifesciences Center at UCI</i>
Oct 2017	3rd Place	<i>Microsoft Coding Competition at UCI</i>
May 2017	Best Project and Development Practices	<i>BeachHacks</i>
Apr 2017	1st Place	<i>1st Tippers IOT Hackathon</i>
2018-2020	ICS Honors Program	<i>UCI</i>

## Presentations and Talks

### Poster Presentations

Nov 2019 **EMNLP 2019**, AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models.

Oct 2018 **Heart to Heart Training Club**, Automatic Segmentation of CTA Imaging on Coronary Arteries.

### Talk

Sep 2019 **Comcast Applied AI Research Lab Lab Week Talk**, Feedback Mini-Batching: Automatically Detecting Data Artifacts and Robust Training.

Nov 2018 **ACM Seminar Talk at UCI**, Interpretations and Adversarial Attacks of DNN Models.

## Involvements and Leadership

2019 – 2020 Vice President *Association for Computing Machinery (ACM) – UCI Chapter*  
2018 – 2019 Vice President *Artificial Intelligence club – UCI*

## Skills

### Advanced

Python

C++

PyTorch

TensorFlow

MATLAB®

### Intermediate

Javascript

### Technologies

MySQL

ReactJS

Bootstrap

Flask

Jupyter

Linux