

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 **AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models**, poster presentation at EMNLP 2019, HK.

Oct 2018 **Automatic Segmentation of CTA Imaging on Coronary Arteries**, Heart to Heart Training Club in the Edwards Lifesciences Center for Advanced Cardiovascular Technology, Irvine, CA.

Talk

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

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

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