

Junlin Wang

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Education

- 2020 – 2022 **Computer Science MS**, *University of California, Irvine*.
Irvine, CA
- 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

- Nov 2018 - **Research Assistant**, *Prof. Sameer Singh*.
Current 📍 Irvine, CA
- 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 EMNLP2019 and won the **Best Demo Reward**.
 - 1 first author in EMNLP2020 Findings
- Jul 2018 - **Lab Member**, *Deep Data Lab@UCI*, website.
Feb 2020 📍 Irvine, CA
- Used statistical analysis and machine learning to determine likelihood of defaults.
 - Collaborated with Experian to research new credit scoring methods.

Industry Experience

- Jun-Sep 2019 **NLP Research Intern**, *Comcast Applied AI Research Lab*.
📍 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 and improved performance by 11%
 - Developed a React data visualization tool for voice command queries.
- Jun-Aug 2015 **Software Engineer Intern**, *Crystal McKenzie Inc.*.
📍 New York, NY
- Assisted and developed the back-end of a new advertising platform using node.js and MySQL.

Other Research Experience

Jul-Sep 2018 **Research Assistant**, *Regan's Group@UCI*.

📍 Irvine, CA

- Co-authored and published a paper “Improved Regressions with Convolutional Neural Networks for Surface Enhanced Raman Scattering Sensors” at SPIE Nanoscience + Engineering.

Feb-Oct 2018 **Research Assistant**, *Molloi's Lab@UCI*.

📍 Irvine, CA

- Developed automatic algorithm to segment CTA Imaging on Coronary Arteries.
- Awarded E-SURP Fellowship.
- Presented posters at Heart to Heart Training Club and UROP Symposium.

Publications

NLP

Nov 2020 **EMNLP Findings**, Gradient-based Analysis of NLP Models is Manipulable.

Junlin Wang, Jens Tuyls, Eric Wallace, Sameer Singh.

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 2019</i>
Apr 2019	Best Visualization	<i>DataFest 2019</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>
2016-2020	Dean's Honor List	<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/C++ ,PyTorch ,MATLAB®

Intermediate

Javascript ,TensorFlow

Technologies

MySQL ,ReactJS ,Bootstrap ,Flask ,Jupyter ,Unix/Linux