Junlin Wang

June 2020

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junlinwang

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 - Current **Research Assistant**, *Prof. Sameer Singh*.
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 - Feb 2020 **Lab Member**, *Deep Data Lab@UCI*, website.
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.

Other Research Experience

Jul-Seq 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 | Landing 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	*EMNLP 2019*
Apr 2019	Best Visualization	*DataFest 2019*
Feb 2018	E-SURP fellowship	*The Edward Lifesciences Center at UCI*
Oct 2017	3rd Place	*Microsoft Coding Competition at UCI*
May 2017	Best Project and Development Practices	*BeachHacks*
Apr 2017	1st Place	*1st Tippers IOT Hackathon*
2018-2020	ICS Honors Program	*UCI*
2016-2020	Dean's Honor List	*UCI*

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 ,MATLAB®

Intermediate

Javascript ,TensorFlow

Technologies

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