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

Research Assistant, *Prof. Sameer Singh*.
📅 Nov 2018 – Present   📍 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 **EMNLP 2019** and won the **Best Demo Reward**.
○ Submitting our work that automatically detect and remove data artifacts to **ACL2020**

Lab Member, *Deep Data Lab@UCI*, website.
📅 Jul 2018 – Present   📍 Irvine, CA

○ Analyzed major bank data to determine the likelihood of defaults using statistical analysis and machine learning in python.

Research Assistant, *Regan's Group@UCI*.
📅 Jul 2018 – Sep 2018   📍 Irvine, CA

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

Industry Experience

NLP Research Intern, *Comcast Applied AI Research Lab*.
📅 Jun 2019 – Sep 2019   📍 Washington, DC

○ Developed a new training routine called adversarial mini batching that certifies equal exposure to all training data. Made the Natural Language Processing models more robust for the x1 xfinity 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**

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

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 | Lnading Page | Demo

Other Publications

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*
Apr 2019	Best Visualization	*DataFest*
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*

Presentations and Talks

Poster Presentations

Nov 6, 2019 **EMNLP 2019**, AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models.

Oct 1, 2018 **Heart to Heart Training Club**, Automatic Segmentation of CTA Imaging on Coronary Arteries.

Talk

Sep 10, 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