

Junlin Wang

2022

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Education

- 2020 – 2022 **Computer Science MS**, *University of California, Irvine*.
UCI GPA: 3.93
- 2016 – 2020 **Computer Science B.S. / Mathematics B.S.**, *University of California, Irvine*.
UCI GPA: 3.91
- Honors ICS Honors Program

Research Experience

- Nov 2018 – **Research Assistant**, *Prof. Sameer Singh*.
Current 📍 Irvine, CA
- Co-authored a demo paper "AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models" at EMNLP2019 and won the **Best Demo Reward**.
 - One first-author paper in EMNLP2020 Findings of manipulating interpretation techniques.
 - Built an automatic evaluation platform for adversarial attacks/defenses. This platform will be used for CS 175 Winter 2022 at UCI.
 - Work in progress on Robustness of ODQA retriever models.

Publications

NLP

- Nov 2021 **Submitted ACL**, GAP-Gen: Guided Automatic Python Code Generation.
Junlin Wang*, Yurun Song*, Junchen Zhao*, Ian Harris.
- 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](#)

Industry Experience

- Jan- 2022 **Intel Labs**, *NLP Research Intern*.
 📍 Santa Clara, California
- Knowledge-injected generation research with a focus on the decoding stage.
- Jun-Sep 2021 **Tencent**, *NLP Research Intern*.
 📍 Shenzhen, Guangzhou
- Combined GNN and NLP methods for better downstream tasks in Tencent Finance.
 - Developed and evaluated GNN methods for large-scale payment data. Explored the potential of self-supervised learning on GNN.
- Jun-Sep 2019 **Comcast Applied AI Research Lab**, *NLP Research Intern*.
 📍 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 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.
- 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.

Projects

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

Honors and Awards

Nov 2019 Best Demo Award

EMNLP 2019

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

- Mar 2020 **AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models**, poster presentation at WeCNLP, 2020.
- 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

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| 2019 – 2020 | Vice President | <i>Association for Computing Machinery (ACM) – UCI Chapter</i> |
| 2018 – 2019 | Vice President | <i>Artificial Intelligence club – UCI</i> |

Skills

Advanced

Python ,C/++ ,PyTorch ,MATLAB®

Intermediate

Javascript ,TensorFlow

Technologies

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