

# Junlin Wang

2023

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## Education

- 2022 – **Computer Science Ph.D**, *Duke University*.
- 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

## Research Experience

- Sep 2022 – **Research Assistant**, *Prof. Sam Wiseman & Prof. Bhuwan Dhingra*.  
📍 Durham, NC
- Neurosymbolic NLP.
  - NLP models generalization and Interpretability.
- Nov 2018 – **Research Assistant**, *Prof. Sameer Singh*.  
June 2022 📍 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.

## Publications

### NLP

- Aug 2022 **Submitted**, GAP-Gen: Guided Automatic Python Code Generation.  
**Junlin Wang\***, Yurun Song\*, Junchen Zhao\*, Ian Harris.
- Aug 2022 **Submitted EAAI**, Maestro: A Gamified Platform for Teaching AI Robustness.
- 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-Aug 2022 **Intel Labs**, *NLP Research Intern*.

📍 Santa Clara, California

- Neurosymbolic Knowledge Generation. Paper is under process.

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	<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

- 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

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