

# Jens Tuyls

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## Education

Sep. 2016 – Jun. 2020 **B.S. Computer Science & Engineering**, *University of California, Irvine, CA*,  
**GPA:** 3.94/4.0.

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## Publications

Nov. 2019 Eric Wallace, **Jens Tuyls**, Junlin Wang, Matt Gardner, and Sameer Singh.  
AllenNLP Interpret: A Framework for Explaining Predictions of NLP Models. In  
*Empirical Methods in Natural Language Processing (EMNLP)*, 2019  
**Best Demo Award**, also a demo at *NeurIPS 2019*

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## Research Experience

Nov. 2018 – Present **Research Assistant: UCI NLP**  
*University of California, Irvine*

**Advisor:** Professor Sameer Singh

Investigate adversarial attacks and model explanations in NLP. Developed easy to use toolkit (AllenNLP Interpret) to interpret NLP models on top of AllenNLP, a deep learning NLP library used by top institutions and organizations.

Apr. – Jun. 2018 **Research Assistant: Biological Network Group**  
*University of California, Irvine*

**Advisor:** Professor Wayne Hayes

Implemented the orbit degree vector output for BLANT (Basic Local Alignment for Networks Tool) to gain more insight into the properties of protein networks.

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## Relevant Industry Experience

Jun. – Sep. 2019 **Software Engineer Intern**, *Microsoft Corporation*, Redmond, WA

Developer for the usage service of Azure Stack. Integrated alerting system that increases customer trust. Created design, requirements, code (C#), and tests.

Jan. – May 2018 **Software Engineer Intern**, *The Portal*, Irvine, CA

Built a web platform that provides start-ups with legal advice. Worked on both front-end (React) and back-end (Node, SQL).

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## Honors & Awards

Nov. 2019 **Best Demo Award EMNLP 2019, Hong Kong.**

Sep. 2018 – Present **ICS Honors Program.**

Sep. 2016 – Present **Dean's Honor List.**

May 2017 **Sylvia Easton Memorial Scholarship.**

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## Leadership

- Apr. 2018 – Present **Vice President**, *ACM@UCI*, Irvine, CA  
Direct weekly algorithm practices (i.e., graph theory, searching, sorting, etc.) and corporate outreach. Organize internal competitions and seminar talks.
- Sep. 2017 – Mar. 2018 **Webmaster & Internal Outreach**, *ACM@UCI*, Irvine, CA  
Managed club website. Organized and promoted events, talks, and competitions.
- Nov. 2018 **ZotHacks Mini-Hackathon: Mentor**, Irvine, CA  
Facilitated project brainstorming sessions. Familiarized teams with APIs, and web & mobile frameworks. Assisted with debugging code.
- Nov. 2018 **Co-coach ICPC Southern California Regional Contest**, Irvine, CA  
Managed and prepared the UCI teams for the ICPC regional contest.

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## Teaching Experience

- Jun. – Sep. 2018 **Math Teacher**, *Sylvan Learning*, Mountain View, CA  
Taught math, robotics, and coding to children from grades 2 - 11. Created individually tailored lesson plans and communicated progress to parents.

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## Course Projects

- Apr. – Jun. 2019 **MuseAI**, *Project in AI*  
Trained Random Forest classifier and Recurrent Neural Network on classical Bach music. Generated new music using the trained models.
- Sep. 2019 – Present **CrowdVision**, *Senior Design Project*  
Developed system that counts people in an image taken by a Raspberry Pi. Built server and computer vision system using Flask and FAIR's Detectron2.

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## Relevant Coursework

Algorithms for Probabilistic and Deterministic Graphical Models, Introduction to AI, Machine Learning and Data-Mining, Project in AI, Design and Analysis of Algorithms, Data Structure Implementation and Analysis, Multivariable Calculus, Linear Algebra, Elementary Differential Equations, Abstract Math, Elementary Analysis\*, Discrete Mathematics, Introduction to Probability and Statistics for Computer Science

\* To be completed by December 2019

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## Technical Skills

Programming Python, PyTorch, C++, C, C#, Java  
Web Development JavaScript, React, Node, SQL, HTML, CSS

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## Languages

English Fluent  
Dutch Native