Rui Wang

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Research Scientist, HeliXon

EXPERIENCE

Research Scientist Beijing, China

HeliXon *Aug. 2021 - present*

EDUCATION

Purdue University West Lafayette, IN

Bachelor of Science in Computer Engineering *Aug. 2017 - May 2020*

○ GPA: 3.84

○ Eli Shay Scholarship

○ Advisor: Prof. David I. Inouye

OPENSOURCE CONTRIBUTION

Massively reduce LayerNorm/RMSNorm training memory NVIDIA/apex

https://github.com/NVIDIA/apex/pull/1715 *Sept, 2023*

○ By identifying tensors to share with other parts of the modern networks, this technique rewrite the gradient computation logic of LayerNorm since day 1 and reduces the training memory usage to near zero.

PREPRINT

High-resolution de novo structure prediction from primary sequence

Biorxiv:https://www.biorxiv.org/content/10.1101/2022.07.21.500999v1 *July, 2022*

○ Ruidong Wu*, Fan Ding*, Rui Wang*, Rui Shen*, Xiwen Zhang, Shitong Luo, Chenpeng Su, Zuofan Wu, Qi Xie, Bonnie Berger, Jianzhu Ma, Jian Peng (* indicates equal contribution)

PUBLICATIONS

Shapley Explanation Networks

Interational Conference on Learning Representations (ICLR) 2021 *Poster, May 2021*
  ∗ Contributed talk at NeurIPS 2020 workshop on Interpretable Inductive Biases and Physically Structured Learning

  ∗ **Rui Wang**, Xiaoqian Wang, David I. Inouye

WIP: Automating Anonymous Processing of Peer Evaluation Comments

2020 ASEE Virtual Annual Conference Content Access *Jun. 2020*
  ∗ Siqing Wei, **Rui Wang**, Matthew W. Ohland, Gaurav Nanda

Natural Language Processing System for Self-Reflection and Peer-Evaluation

Proceedings of the International Conference on Industrial Engineering and Operations Management *Oct. 2019*
  ∗ **Rui Wang**, Siqing Wei, Daniel Ferguson, Matthew W. Ohland

FUNDING

Supplement Request to NSF award #1431694 (Funded)

"Optimizing Student Team Skill Development Using Evidence-Based Strategies" *10/01/2013 – 03/31/2022*

○ authoring of the proposed supplement as an undergraduate student and responded to reviewer questions in preparation for the proposal being funded for $4,000 to support undergraduate research

○ Amount: $4,000. (The main award was funded with $1,861,627)

○ PI: Matthew Ohland, Co-PI: Richard Layton, Misty Loughry, Daniel Ferguson, and David Woehr.

TEACHING

Teaching Assistant West Lafayette, IN

Purdue University

○ ENGR 13100: Transforming Ideas to Innovation I

○ ECE 36800: Data Structures