CURRICULUM VITAE

YANJUN GAO

Postdoctoral Research Associate, ICU Data Science Lab   Email: ygao@medicine.wisc.edu

Department of Medicine, School of Medicine and Public Health,   Web: https://serenayj.github.io/

University of Wisconsin-Madison   Twitter: yanjungao

(a) Education

Pennsylvania State University   Ph.D., 2014-2021

Department of Computer Science and Engineering, State College, PA

Area: Natural Language Processing, *Advisor*: Rebecca J. Passonneau

Thesis: Analysis of Text to Identify, Represent, and Group Distinct Propositions

Harbin Finance University   B.M, 2010-2014

Department of Computer Science, Harbin, China

Area: E-commerce

Heilongjiang University   B.A., *minor*, 2010-2014

Harbin, China

Area: English

(b) Research Interests

Natural Language Processing (NLP), Clinical NLP, Artificial Intelligence in Medicine and Education

(c) Research & Professional Experience

2021 – Now	**Postdoctoral Research Associate, University of Wisconsin-Madison** Project: *Clinical Natural Language Processing (Progress Note Understanding)*
2018 – 2021	**Research Assistant, NLP Lab, Pennsylvania State University** Project: *Identifying and Representing Ideas in Complex Sentences*
2020/5 – 2020/8	**Research Intern, Kwai Inc. (KuaiShou) Sillicon Valley AI Lab** Project: *Leveraging NLP in Temporal Grounding*
2017 - 2018	**Research Assistant, NLP Lab, Pennsylvania State University** Project: *Automated Pyramid Summarization Evaluation and Student Writing Assessment in STEM*
2015 – 2016	**Research Assistant, Pennsylvania State University** Project: *Collaborative Information Behaviour*

(d) Academic Services

- Organizing Committee on National NLP Clinical Challenge (N2C2 2022)
- Organizing Committee on Graph-based Natural Language Processing (TextGraphs 2022)
- Program Committee on International Conference on Artificial Intelligence in Education (AIED 2022)
- Program Committee on Language Resources and Evaluation Conference (LREC 2022)
- Program Committee on Workshop on Evaluation and Comparison for NLP systems (Eval4NLP 2020-2022)
- Program Committee on China National Conference on Computational Linguistics (CCL 2020)

(e) Publications

- Gao, Yanjun, et al. "A Scoping Review of Publicly Available Language Tasks in Clinical Natural Language Processing." arXiv preprint arXiv:2112.05780 (2021).
- Yanjun Gao, Kenneth Ting-hao Huang, Rebecca J. Passonneau. "ABCD: A Graph Framework to Convert Complex Sentences to a Covering Set of Simple Sentences". *59th Annual Meeting of the Association for Computational Linguistics (ACL 2021).*
- Yanjun Gao, Lulu Liu, Jason Wang, Rui Zhang. "EVOQUER: Enhancing Temporal Grounding with

Video-Pivoted Back Query Generation". *4th Workshop on Visually Grounded Interaction and Language (ViGIL 2021).*

- Yanjun Gao, Rebecca J. Passonneau. "Automated Assessment of Quality and Coverage of Ideas in Students' Source-based Writing".*22nd International Conference on Artificial Intelligence in Education (AIED 2021) Doctoral Consortium.*
- Yanjun Gao, Kenneth Ting-hao Huang, Rebecca J. Passonneau. "Learning Clause Representation from Dependency-Anchor Graphs for Discourse Connective Prediction". *15th Workshop on Graph-Based Natural Language Processing (TextGraphs2021).*
- Patricia Davies and Yanjun Gao and Smaranda Muresan and Rebecca J. Passonneau, "Analytical Techniques for Developing Argumentative Writing in STEM". *IEEE Transaction in Education. 2021*
- Yanjun Gao, Xin Chen, Huayan Wang. "Video Pivoted Machine Translation Assisted Temporal Grounding." *Patent Filling in China, 2021.*
- Yanjun Gao, Chen Sun, Rebecca J. Passonneau. "Automatic Pyramid Summarization Evaluation". *Proceedings of the 23rd Conference on Computational Natural Language Learning (CoNLL). 2019.*
- Yanjun Gao, Alex Driban, Brennan Xavier McManus, Elena Musi, Patricia Davies, Smaranda Muresan, and Rebecca J. Passonneau. "Rubric Reliability and Annotation of Content and Argument in Source-Based Argument Essays." *In Proceedings of the Fourteenth Workshop on Innovative Use of NLP for Building Educational Applications (BEA), pp. 507-518.* 2019.
- Yanjun Gao, Patricia M. Davies, and Rebecca J. Passonneau. "Automated content analysis: A case study of computer science student summaries." *Proceedings of the thirteenth workshop on innovative use of NLP for building educational applications (BEA).* 2018.
- Yanjun Gao, Andrew Warner and Rebecca J. Passonneau. "PyrEval: An Automated Method for Summary Content Analysis", *11th edition of the Language Resources and Evaluation Conference (LREC),* 2018.
- Yanjun Gao, Madhu Reddy and Bernard J.Jansen. "ShopWithMe!: Collaborative Information Searching and Shopping for Online Retail". *Proceedings of the 50th Hawaii International Conference on System Sciences (HICSS).* 2017.
- Yanjun Gao, Madhu Reddy, and Bernard J. Jansen. "Shop together, search together: Collaborative e-commerce." Proceedings of the 2016 CHI conference extended abstracts on human factors in computing systems. 2016.

(f) Teaching Experience

2018 Fall - 2021 Spring	CMPSC/DS 442, Artificial Intelligence, Penn State
2018 - 2021	CSE 597, Natural Language Processing (Guest Lecturer), Penn State

(g) Skills

- Programming Language: Python, C++, Javascript, Java, MATLAB, SQL
- Frameworks: Pytorch, AllenNLP, StanfordCoreNLP, Numpy, Sklearn, Spacy, Django

(h) Honor

Best Poster in New York Academy of Sciences NLP, Dialog and Speech Symposium (NYAS NDS), November 2019; National Scholarship, 2013-2014, Ministry of Education in China