

Danqing Wang

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Research Interest: Natural Language Processing, Text Summarization, AI Drug Discovery

Project: <https://github.com/dqwang122>

Education & Experience

- **Algorithm Researcher** **AI-Lab, ByteDance**
Advisor: Hao Zhou and Lei Li 2020.4 – Current
- **Master in Computer Science** **Fudan University**
Advisor: Prof. Xipeng Qiu and Prof. Xuanjing Huang 2018.9 – 2021.1
GPA: 3.72/4.0 Ranking: 15/225
- **Bachelor in Computer Science and Technology** **Fudan University**
GPA: 3.62/4.0 Ranking: 10/74 2014.9 – 2018.6

Publication

- **Generating Antimicrobial Peptides from Latent Secondary Structure Space** **Under Review**
Danqing Wang, Zeyu Wen, Hao Zhou, Lei Li
 - Samples peptides from the latent secondary structure space to control the peptide properties.
 - Results show that the generated peptides have better characteristics (+6.27%) and high AMP probability (91.47%).
- **Contrastive Aligned Joint Learning for Multilingual Summarization** **ACL 2021 Findings**
Danqing Wang, Jiaze Chen, Hao Zhou, Xipeng Qiu, Lei Li
 - Main leader of this long paper [link]
 - A large-scale multilingual summarization corpus MLGSum with 1.1 million articles and summaries in 12 languages.
 - Two tasks, contrastive sentence ranking and sentence aligned substitution, for multilingual summarization.
- **Heterogeneous Graph Neural Networks for Extractive Document Summarization** **ACL 2020**
Danqing Wang, Pengfei Liu*, Yining Zheng, Xipeng Qiu and Xuanjing Huang*
 - Main leader of this long paper [link]
 - Introduce word nodes to model the cross-sentence relationship for extractive summarization.
 - Easily adapt the graph model from single to multiple document summarization.
- **Extractive Summarization as Text Matching** **ACL 2020**
Ming Zhong, Pengfei Liu*, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang*
 - Collaborator of this long paper [link]
 - Formulate extractive summarization as a semantic text matching problem and select sentences in summary-level.
 - Achieve superior performance on six benchmark datasets, including state-of-the-art extractive result on CNN/DailyMail.
- **Searching for Effective Neural Extractive Summarization: What Works and What's Next** **ACL 2019**
Ming Zhong, Pengfei Liu*, Danqing Wang, Xipeng Qiu, Xuanjing Huang*
 - Significant collaborator of this long paper, oral presentation [link]
 - Models with autoregressive decoder are prone to achieving better performance against non auto-regressive ones.
 - LSTM is more likely to suffer from the architecture overfitting problem while Transformer is more robust.
- **A Closer Look at Data Bias in Neural Extractive Summarization Models** **EMNLP 2019**
Ming Zhong, Danqing Wang*, Pengfei Liu*, Xipeng Qiu, Xuanjing Huang*
 - Workshop on New Frontiers in Summarization [link]
 - Define four measures in *constituent factor* and *style factors* to quantify the characteristics of summarization datasets.

Honors

- **May 2021** Shanghai Outstanding Graduates (5% of graduates)
- **Nov. 2020** Venustech Scholarship (1% of Fudan students)
- **Sept. 2019** Scholarship for Outstanding Students (First Prize)
- **Dec. 2017** Fudan's Undergraduate Research Opportunities Program