

# Danqing Wang

1467 Caobao Road, Minhang District - Shanghai - China  
☎ + (86) 151 2101 6785 • ✉ dqwang122@gmail.com  
📄 <https://dqwang122.github.io>

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

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

## Education & Experience

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- **Algorithm Researcher** **AI-Lab, ByteDance**  
*Advisor: Hao Zhou and Lei Li* 2021 – Current
- **Master in Computer Science** **Fudan University**  
*Advisor: Prof. Xipeng Qiu and Prof. Xuanjing Huang* 2018 – 2021  
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 – 2018

## Publication

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- **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, Jiase 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.

## Skills

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- **Language:** Python > C++ > C
- **Framework:** Pytorch > Tensorflow