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: Jiaze Chen, Hao Zhou and Lei Li — *2020.4 – Current*
- **Master in Computer Science** — **Fudan Univerisity**
  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 Univerisity**
  GPA: 3.62/4.0 Ranking: 10/74 — *2014.9 – 2018.6*

Publication

- **Generating Antimicrobial Peptides from Latent Secondary Structure Space**
  Danqing Wang, *Zeyu Wen, Hao Zhou, Lei Li* — ***Under Review***
  - Sample peptides from the latent secondary structure space to control the peptide properties.
  - The generated peptides have better characteristics (+6.27%) and high AMP probability (91.47%).
- **CNewSum: A Large-scale Chinese News Summarization Dataset with Human-annotated Adequacy and Deducibility Level**
  Danqing Wang, *Jiaze Chen, Xianze Wu, Hao Zhou, Lei Li* — ***NLPCC 2021***
  - Provide the adequacy and deducibility level to analysis the gap between generated and human-like summaries.
- **Contrastive Aligned Joint Learning for Multilingual Summarization**
  Danqing Wang, *Jiaze Chen, Hao Zhou, Xipeng Qiu, Lei Li* — ***ACL 2021 Finding***
  - A large-scale multilingual summarization corpus MLGSum with 1.1 million articles and summaries in 12 languages.
  - Propose two tasks, contrastive sentence ranking and sentence aligned substitution, for multilingual summarization.
- **Heterogeneous Graph Neural Networks for Extractive Document Summarization**
  Danqing Wang*, *Pengfei Liu**, *Yining Zheng, Xipeng Qiu and Xuanjing Huang* — ***ACL 2020***
  - 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**
  *Ming Zhong**, *Pengfei Liu**, *Yiran Chen*, ***Danqing Wang***, *Xipeng Qiu and Xuanjing Huang* — ***ACL 2020***
  - 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**
  *Ming Zhong**, *Pengfei Liu**, ***Danqing Wang***, *Xipeng Qiu, Xuanjing Huang* — ***ACL 2019***
  - 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**
  *Ming Zhong**, ***Danqing Wang****, *Pengfei Liu**, *Xipeng Qiu, Xuanjing Huang* — ***EMNLP 2019 Workshop***
  - Workshop on New Frontiers in Summarization
  - Define four measures in *constituent factor* and *style factors* to quantify the characteristics of summarization datasets.

Honor

- **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