

DANYANG LIU

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RESEARCH INTERESTS

General: Transforming temporal visual inputs, such as image sequences or videos, into text.

PhD Focus: Controllable and grounded visual storytelling, emphasizing planning and characters.

EDUCATION

University of Edinburgh, *Ph.D. in Natural Language Processing* Sep. 2020 - Present

Advisors: Frank Keller and Mirella Lapata

Shanghai Jiao Tong University, *M.Sc. in Information Security* Sep. 2017 - Mar. 2020

Southeast University, *B.Eng. in Information Engineering* Aug. 2013 - Jun. 2017

PUBLICATIONS

- [1] [Danyang Liu](#), Mirella Lapata, Frank Keller. [Visual Storytelling with Question-Answer Plans](#), To Appear In Findings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2023, Singapore.
- [2] [Danyang Liu](#), Frank Keller. [Detecting and Grounding Important Characters in Visual Stories](#), In Proceedings of the AAAI Conference on Artificial Intelligence (AAAI) 2023, Washington, DC.
- [3] Amr Keleg*, Matthias Lindemann*, [Danyang Liu*](#), Wanqiu Long*, Bonnie L Webber. [Automatically Discarding Straplines to Improve Data Quality for Abstractive News Summarization](#), In Proceedings of NLP Power! The First Workshop on Efficient Benchmarking in NLP (ACL Workshop) 2022, Dublin, Ireland.
- [4] [Danyang Liu](#), Juntao Li, Meng-Hsuan Yu, Gongshen Liu, Rui Yan. [A Character-Centric Neural Model for Automated Story Generation](#), In Proceedings of AAAI Conference on Artificial Intelligence (AAAI) 2020, New York, USA.
- [5] Meng-Hsuan Yu, Juntao Li, [Danyang Liu](#), Rui Yan. [Draft and Edit: Automatic Storytelling Through Multi-Pass Hierarchical Conditional Variational Autoencoder](#), In Proceedings of AAAI Conference on Artificial Intelligence (AAAI) 2020, New York, USA.
- [6] [Danyang Liu](#) and Gongshen Liu. [A Transformer-Based Variational Auto Encoder for Sentence Generation](#), In Proceedings of the International Joint Conference on Neural Networks (IJCNN) 2019, Budapest, Hungary.

INDUSTRY & RESEARCH EXPERIENCE

Huawei Edinburgh Research Centre, Edinburgh, U.K. May. 2021 - Oct. 2021
Research Intern

- Research on jointly learning conversational semantic parsing and answerability detection.

Peking University, Peking, China. Jun. 2019 - Sep. 2019
Research Intern

- Proposed a novel storytelling model by modeling the interaction between characters and environments.

TEACHING EXPERIENCE

- Teaching Support at the School of Informatics, University of Edinburgh** 2020 - Present
- Tutor for *Natural Language Understanding and Generation* for AI MSc students.
 - Tutor for *Informatics Research Review* for AI MSc students.
 - Marker for *Machine Learning Practical* for AI MSc students.
 - Marker for *Doing Research in NLP* for CDT Ph.D. students.
- Teaching Assistant at Shanghai Jiao Tong University** 2018 - 2019
- Demonstrator for *Information Security Experiment* for MSc students.
 - Assisting MSc student for *Masters Project on Machine Translation*.

AWARDS

- School of Informatics CDT NLP PhD Scholarship** 2020 - 2024
4-year scholarship from the University of Edinburgh
- First-Class Postgraduate Academic Scholarship** 2017 - 2020
3-year scholarship from Shanghai Jiao Tong University
- Outstanding Graduate of Shanghai Jiao Tong University** 2020
- Meritorious Winner of The Interdisciplinary Contest in Modeling** 2017
- Excellent Graduation Project (5%) of Southeast University** 2017