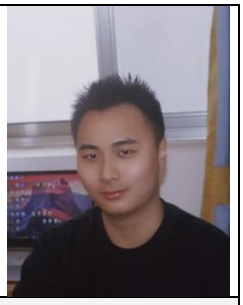
Name	Kailai Yang	Website	stevekgyang.github.io
Date of Birth	Feb. 3, 1999	E-mail	kailai.yang@postgrad.manchester.ac.uk
Major	Computer Science, Natural Language Processing		
Research Centre	National Centre for Text Mining (NaCTeM), University of Manchester		



★ EDUCATION

2017.9-2021.7 Harbin Institute of Technology Computer Science (Bachelor of Engineering)

✧ Grades

GPA：88/100

Class Ranking: 3/32

✧ Thesis

Title: Introduction of Commonsense and Sentiment Lexicon Knowledge to Emotion Recognition in Conversations (In Chinese)

Final Score:90.3/100

Class Ranking:1/32

✧ Major Courses

I major in Computer Science and Natural Language Processing, achieving over 90/100 points in all five major courses. In the course Advance Algorithms and Theory of Computation, I achieved 1st place in the department.

2021.12-2023.1 University of Manchester Computer Science (Master of Philosophy)

✧ Supervisors: Prof. Sophia Ananiadou and Dr. Junichi Tsujii

✧ Research Topic: Emotion Detection

✧ Thesis

Title: Representation Learning for Emotion Recognition and Mental Health Analysis (Preprint)

★ PUBLICATION

Working Papers

✧ **Kailai Yang**, Tianlin Zhang, Hassan Alhuzali, Sophia Ananiadou. “Cluster-Level Contrastive Learning for Emotion Recognition in Conversations”. Submitted to *IEEE Transactions on Affective Computing* (Under review).

✧ Tianlin Zhang, **Kailai Yang**, Sophia Ananiadou. "Sentiment-guided Transformer for Depression Detection with Severity-aware Contrastive Learning". Submitted to *IEEE Transactions on Computational Social Systems* (Under review)

Conference Papers

✧ Yunhe Xie*, **Kailai Yang***, Chengjie Sun, Bingquan Liu, Zhenzhou Ji. “Knowledge-Interactive Network with Sentiment Polarity Intensity-Aware Multi-Task Learning for Emotion Recognition in Conversations”. In *EMNLP 2021*. Co-first Author.

✧ Shengjun Yin, **Kailai Yang**, Hongzhi Wang. “A MOOC Courses Recommendation System Based on Learning Behaviours”. In *TURC 2020*.

Journal Papers

- **Kailai Yang**, Tianlin Zhang, Sophia Ananiadou. "A Mental State Knowledge-Aware and Contrastive Network for Early Stress and Depression Detection on Social Media". In *Information Processing & Management, Volume 59, Issue 4, 2022.*
- Tianlin Zhang, **Kailai Yang**, Shaoxiong Ji, Sophia Ananiadou. "Emotion fusion for mental illness detection from social media: A survey". In *Information Fusion*, 2022

★ RESEARCH EXPERIENCE

2020.12-2021.5 Emotion Recognition in Conversation (ERC) Enhanced with Knowledge
Intelligence Technology & Natural Language Processing Lab, HIT

- Supervisor: Prof. Bingquan Liu
- Independently proposed and implemented dual knowledge-interactive network with polarity-aware multi-task learning for emotion recognition in conversations. For the first time, we introduce emotion lexicon and direct utterance-knowledge interaction to ERC models.

2020.6-2020.10 Persona-based Dialogue System Combined with Emotion Classification
The Henry Samueli School of Engineering, UC Irvine

- Supervisor: Prof. Ian Harris
- Independently proposed the idea of persona-based dialogue system combined with emotion classification.
- Led a research group of 4 people, organized several tasks including model construction and data labeling.

2018.3-2018.6 A MOOC Courses Recommendation System Based on Learning Behaviors
School of Computer Science and Technology, HIT

- Supervisor: Prof. Hongzhi Wang
- Cooperated in designing LDA model and demographic information model parts of the MOOC recommendation model and its Python programming implementation.
- Independently completed writing of paper: A MOOC Courses Recommendation System Based on Learning Behaviors

2019.2-2019.6 A Keyword Extraction System
Social Computing and Information Retrieval Research Center, HIT

- Independently completed the construction and Python programming implementation of a Chinese keyword extraction system using LDA model, TF-IDF algorithm and text rank algorithm.

2019.9-2019.12 Relation Extraction System for Data2Text Evaluation
Social Computing and Information Retrieval Research Center, HIT

- Independently completed construction and Python programming implementation of a relation extraction system based on Distil-BERT and CNN-RNN encoder for Data2Text Evaluation.
- Independently completed pre-training of Distil-BERT and BERT for relation extraction system, including tasks of word and digit mask prediction and digit table selection.

★ CERTIFICATION & AWARD

Certification

- TOEFL: 102 (Reading: 29, Listening: 29, Speaking: 23, Writing: 21)
- GRE: 324+3 (Verbal:155, Quantitative:169, Analytical Writing:3.0)

Award

- Third-Class People's Scholarship for 2018 Fall
- Second-Class People's Scholarship for 2018 Spring

- ✧ Second-Class People's Scholarship for 2017 Fall
- ✧ Provincial First Prize in China Undergraduate Mathematical Contest in Modelling, 2019 (First Author)

★ SELF-ASSESSMENT

- ✧ I have passion and experience in scientific research and am willing to work hard for a PhD degree in the future.
- ✧ I have strong sense of responsibility and cooperation, and some experience in leading a group for scientific research.
- ✧ I am both physically and mentally healthy. I volunteered in National University IoT Contest and the SMP 2018 conference. In my spare time, I love playing basketball, listening to music and watching movies.