

Heng Yang

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Webpage: yangheng95.github.io — Huggingface: [yangheng](https://huggingface.co/yangheng) — GScholar: [Heng Yang](#)
University of Exeter, Exeter City, UK

OBJECTIVE

Seeking a research position in AI and NLP, leveraging expertise in biological sequence modeling, sentiment analysis, and adversarial attacks to drive innovation and contribute to impactful research projects.

EDUCATION

- **University of Exeter** Sept. 2021 - Sept. 2025 (Expected)
PhD in AI/NLP Exeter, UK
- **South China Normal University** Sept. 2018 - June 2021
Master's in Computer Science (AI/NLP) Guangzhou, China
- **Yangtze University** Sept. 2014 - June 2018
Bachelor's in Computer Science Jingzhou, China

AWARDS

- **Chinese National Graduate Scholarship 2020**
- **Outstanding Graduate of Yangtze University 2018**

PUBLICATIONS

- **OmniGenBench: Automating Large-scale Benchmarking for Genomic Foundation Models**
Heng Yang, Jack Cole, Ke Li (Arxiv 2024)
- **OmniGenome: Aligning RNA Sequences with Secondary Structures in Genomic Foundation Models**
Heng Yang, Ke Li (Arxiv 2024)
- **PlantRNA-FM: An Interpretable RNA Foundation Model for Exploration Functional RNA Motifs in Plants**
Haopeng Yu#, Heng Yang#, et al. (Co-first Author, Nature Machine Intelligence, 2024)
- **Modeling Aspect Sentiment Coherency via Local Sentiment Aggregation**
Heng Yang, Ke Li (EACL 2024)
- **The Best Defense is Attack: Repairing Semantics in Textual Adversarial Examples**
Heng Yang, Ke Li (EMNLP 2024)
- **PyABSA: A Modularized Framework for Reproducible Aspect-based Sentiment Analysis**
Heng Yang, Cheng Zhang (CIKM 2023)
- **Evolutionary Multi-objective Instruction Optimization via Large Language Model-based Instruction Operators**
Heng Yang, Ke Li (EMNLP 2023)
- **DaNuoYi: Evolutionary Multi-Task Injection Testing on Web Application Firewalls**
Ke Li, Heng Yang (IEEE TSE, 2023)
- **Boosting Text Augmentation via Hybrid Instance Filtering Framework**
Heng Yang, Ke Li (ACL 2023)
- **A Multi-task Learning Model for Chinese-oriented Aspect Polarity Classification and Aspect Term Extraction**
Heng Yang, Biqing Zeng (Neurocomputing 2021)

PERSONAL OPEN-SOURCE PROJECTS

- **OmniGenBench – 4.7k Downloads** Sept. 2023 - Present
First large-scale in-silico benchmarking framework for genomic foundation models [GitHub](#)
- **PyABSA – 340k Downloads, 1k GitHub stars** June 2020 - Present
Aspect-based sentiment analysis framework, serving commercials, developers and scholars [GitHub](#)

COMMUNITY STATISTICS

- **GitHub:** 1.5k stars, ≈ 160 commits and 60 PRs /year. I am an open-source lover since the beginning of my research. I am grateful to the developers whose projects helped me a lot. Therefore, I am committed to share all my open-source projects on GitHub with friendly MIT lenience.
- **Huggingface:** 8 Models and 10 Spaces with $\approx 400k$ downloads and $10k$ access, respectively. Thanks to the Huggingface platform, I am glad to share all my pretrained and fine-tuned state-of-the-art sentiment analysis and genomic foundation models. e.g., [deberta-v3-base-absa-v1.1](#) and [OmniGenome-186M](#). Moreover, I have been releasing demos for low-resource research topics, like RNA secondary structure prediction and RNA Design.
- **PyPi:** 8 python wheels with 800k downloads. I have made efforts to simplify the workflows and pipelines by packing and releasing open-access Python wheels. My wheels have been widely used in by the community. These wheels can be easily distributed via PyPi and installed via the pip tool.