

# Heng Yang

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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 NLP/Genomics Modelling* Exeter, UK
- **South China Normal University** Sept. 2018 - June 2021  
*Master's in NLP* Guangzhou, China
- **Yangtze University** Sept. 2014 - June 2018  
*Bachelor's in Computer Science* Jingzhou, China

## AWARDS

- **PhD Studentship with Research Grant** University of Exeter, 2021-2025
- **National (Academic) Graduate Scholarship** South China Normal University, 2020
- **Outstanding Graduate** 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 (AAAI 2025)*
- **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 Installations Sept. 2024 - Present  
*First large-scale in-silico benchmarking framework for genomic foundation models* [GitHub](#)
- **PyABSA** – 340k Installations, 1k GitHub stars June 2020 - Present  
*Aspect-based sentiment analysis framework, serving commercials, developers and scholars* [GitHub](#)

## COMMUNITY CONTRIBUTION STATISTICS

- **GitHub: 1.5k stars,  $\approx$  160 commits and 60 PRs/year.** I am a 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 to 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.