Heng Yang

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Exeter, 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. (Biorxiv 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)
- **LCF: A Local Context Focus Mechanism for Aspect-based Sentiment Classification**
  Biqing Zeng, Heng Yang (Applied Sciences 2019)

PROJECTS

- **OmniGenomeBench** — *Sept. 2023 - Present*
  Large-scale in-silico benchmarking framework for genomic foundation models — GitHub
- **PyABSA** — *June 2020 - Present*
  Framework for Aspect-Based Sentiment Analysis (ABSA) — GitHub

SKILLS

- **Programming Languages:** Python, Java

- **Frameworks:** PyTorch, Hugging Face

- **Tools:** Git, Docker

CONTACT

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