YIMENG GU

yimeng.gu@qmul.ac.uk ⋄ https://gymbeijing.github.io

EDUCATION

Queen Mary University of London   **London, UK**
Ph.D. in Computer Science   Sept 2021 - *present*
Advisor(s): Dr. Gareth Tyson, Dr. Ignacio Castro

Carnegie Mellon University   **Pittsburgh, PA, USA**
M.S. in Electrical and Computer Engineering   Aug 2020 - Aug 2021

The Hong Kong University of Science and Technology   **Hong Kong, China**
MSc. in Big Data Technology   Sept 2019 - June 2020

Beihang University   **Beijing, China**
B.E. in Electronics Information Engineering   Sept 2014 - June 2018
Shenyuan Honors College (top 50/3000+)

PUBLICATIONS

1. GatedVAE: Detecting Multimodal Fake News with Gated Variational AutoEncoder
   Yimeng Gu, Ignacio Castro, Gareth Tyson
   In *Proceedings of the 16th ACM Web Science Conference*, 2024

2. Making the Pick: Understanding Professional Editor Comment Curation in Online News
   Yupeng He, **Yimeng Gu**, Ravi Shekhar, Ignacio Castro, Gareth Tyson
   In *Proceedings of the 18th International AAAI Conference on Web and Social Media*, 2024

3. MMVAE at SemEval-2022 Task 5: A Multi-modal Multi-task VAE on Misogynous Meme Detection
   Yimeng Gu, Ignacio Castro, Gareth Tyson
   In *Proceedings of the 16th International Workshop on Semantic Evaluation*, 2022

4. Automating Claim Construction in Patent Applications: The CMUmine Dataset
   Ozan Tonguz, Yiwei Qin, **Yimeng Gu**, Hyun Hannah Moon
   In *Proceedings of the Natural Legal Language Processing Workshop*, 2021

HONORS AND AWARDS

- HKUST MSc (BDT) Excellent Student Scholarship 2019 (Top 7%)   Apr 2020
- Excellent Undergraduate in Beihang University   June 2018
- Second Prize in Fengru Cup of Science and Technology Competition in Beihang University (Top 15%)   May 2017
- Honorable Mention in COMAP's Mathematical Contest in Modeling   Apr 2016

RESEARCH EXPERIENCE

Queen Mary University of London | Graduate Research Assistant   London, UK
Advisor: Dr. Gareth Tyson   Sept 2021 - *present*
Topic: Multimodal Misinformation Detection on Social Media Platforms

Carnegie Mellon University | Graduate Research Assistant   Pittsburgh, PA, USA
Advisor: Prof. Ozan Tonguz   Apr 2021 - Sept 2021
Topic: Automating Claim Construction in Patent Application Using Text Summarization Models

University of Wisconsin-Madison | Visiting Scholar   Madison, WI, USA
Advisor: Prof. Andreas Velten, Prof. Kevin Eliceiri   July 2017 - Aug 2017
Topic: Speeding up the Color Rendering of Images Taken from Hyperspectral Microscope

WORK EXPERIENCE

Autodesk Research London, UK
Research Intern at AI Lab Jun 2023 - Sept 2023
Topic: Identifying Mechanisms in Fusion360 Assemblies

Queen Mary University of London London, UK
Lab Demonstrator Jan 2022 - May 2022
• Demonstrated for ECS765P Big Data Processing

IFLYTEK Group Beijing, China
AI Research Intern Oct 2018 - Apr 2019
Topic: Natural Language Processing with Legal Texts
• Applied Named Entity Recognition and Reading Comprehension model to extract targeting elements (i.e., job description, job location, term of part-time working) from Chinese labor contracts, and compared model performances

LANGUAGE AND SKILLS

Computer/Technical	Python, Java, C/C++, Spark, SQL, git, gradle, IntelliJ IDEA, PyCharm, AWS, Azure, VS Code
Deep Learning	Pytorch, Tensorflow, HuggingFace, (M)LLMs
Language	English (fluent), Mandarin (native)