

# YIMENG GU

yimeng.gu@qmul.ac.uk  $\diamond$  <https://gymbeijing.github.io>

## EDUCATION

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### Queen Mary University of London

Ph.D. in Computer Science

Advisor(s): Prof. Gareth Tyson

London, UK

Sept 2021 - *present*

### Carnegie Mellon University

M.S. in Electrical and Computer Engineering

Pittsburgh, PA, USA

Aug 2020 - Aug 2021

### The Hong Kong University of Science and Technology

MSc. in Big Data Technology

Hong Kong, China

Sept 2019 - June 2020

### Beihang University

B.E. in Electronics Information Engineering

Shenyuan Honors College (top 50/3000+)

Beijing, China

Sept 2014 - June 2018

## PUBLICATIONS

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- Contrastive Domain Adaptation with Test-time Training for Out-of-Context News Detection  
**Yimeng Gu**, Mengqi Zhang, Ignacio Castro, Shu Wu, Gareth Tyson  
Preprint: [arxiv.org/pdf/2406.07430](https://arxiv.org/pdf/2406.07430)
- 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
- 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
- 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
- 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

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- ACM WebSci'24 Travel Grant Apr 2024
- 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

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### Queen Mary University of London | PhD Student

Advisor: Prof. Gareth Tyson

Topic: Detecting Multimodal Misinformation on Social Media Platforms

London, UK

Sept 2021 - *present*

Carnegie Mellon University | Graduate Research Assistant

Advisor: Prof. Ozan Tonguz

Topic: Automating Claim Construction in Patent Application Using Text Summarization Models

Pittsburgh, PA, USA

Apr 2021 - Sept 2021

University of Wisconsin-Madison | Visiting Scholar

Advisor: Prof. Andreas Velten, Prof. Kevin Eliceiri

Topic: Accelerating Color Rendering Process of Hyper-spectral Microscope Images

Madison, WI, USA

July 2017 - Aug 2017

WORK EXPERIENCE

Autodesk Research | Research Intern in AI Lab

Topic: Identifying Mechanisms in Fusion360 Assemblies

London, UK

Jun 2023 - Sept 2023

Queen Mary University of London | Lab Demonstrator

Course: ECS765P Big Data Processing

London, UK

Jan 2022 - May 2022

IFLYTEK Group | AI Research Intern

Topic: Natural Language Processing with Legal Texts

Beijing, China

Oct 2018 - Apr 2019

TALKS

Apr 2024: Talk at British Machine Vision Association (BMVA) on *Learning Domain-Invariant Features for Out-of-context News Detection*

Aug 2023: Invited talk at Autodesk Research Connections on *Identifying Mechanisms in Fusion360 Assemblies*

ACADEMIC SERVICES

Reviewer

MM 2024, SemEval 2022

LANGUAGE AND SKILLS

Computer/Technical

Deep Learning

Language

Python, Java, C/C++, Spark, SQL, git, gradle, IntelliJ IDEA, PyCharm, AWS, Azure, VS Code

Pytorch, Tensorflow, HuggingFace, (M)LLMs

English (fluent), Mandarin (native)