

Quyét Do

✉ Email: quyetdo@vt.edu

🔗 Google Scholar: Quyét V. Do

🌐 Homepage: <http://dovanquyet.github.io/>

Research Interests

I aspire to develop artificial intelligence (AI) in a similar way as human intelligence develops. In the era of large AI models, my research focus includes:

- **Instruction tuning:** Enhancing multi-instruction-following capabilities of large language models.
- **Model merging:** Merging models's weights (of different size, different pretraining procedure, etc.) to keep strengths and minimize weaknesses of models in the merged model.
- **AI for Math:** As an IMO medalist, I am interested in developing AI math-reasoning systems based on my math-solving techniques.

Education

- 08/2024 - present 📖 **Ph.D. Computer Science and Applications**
Virginia Tech
Supervisor: Prof. [Tu Vu](#)
Specialization: *Natural Language Processing*
- 08/2022 - 06/2024 📖 **M.Phil. Computer Science and Engineering**
Hong Kong University of Science and Technology (HKUST)
Supervisor: Prof. [Yangqiu Song](#)
Specialization: *Natural Language Processing, Commonsense Reasoning*
- 08/2018 - 06/2022 📖 **B.Sc. Data Science and Pure Math (Advanced Track)**
Hong Kong University of Science and Technology (HKUST)
CGA: 4.0/4.3 as of Graduation (Top 2/30)
First Class Honors with Academic Achievement Medal




Selected Publications

For the full list of my publications, please visit my Google Scholar profile.





Remark: * indicates equal contribution.

1. **SEACrowd: A Multilingual Multimodal Data Hub and Benchmark Suite for Southeast Asian Languages**
Holy Lovenia and Rahmad Mahendra and Salsabil Maulana Akbar et. al. *including Quyét V. Do*
EMNLP 2024. [pdf].
2. **ConstraintChecker: A Plugin for Large Language Models to Reason on Commonsense Knowledge Bases**
[Quyét V. Do](#), Tianqing Fang, Shizhe Diao, Zhaowei Wang, Yangqiu Song
EACL 2024. [pdf] [code].
3. **A Multitask, Multilingual, Multimodal Evaluation of ChatGPT on Reasoning, Hallucination, and Interactivity**
Yejin Bang, Samuel Cahyawijaya, Nayeon Lee, Wenliang Dai, Dan Su, Bryan Wilie, Holy Lovenia, Ziwei Ji, Tiezhen Yu, Willy Chung, [Quyét V. Do](#), Yan Xu, Pascale Fung
AAACL 2023, Area Chair Award. [pdf] [code].
4. **PseudoReasoner: Leveraging Pseudo Labels for Commonsense Knowledge Base Population.**
Tianqing Fang, [Quyét V. Do](#), Hongming Zhang, Yangqiu Song, Ginny Y. Wong and Simon See
Findings of EMNLP 2022. [pdf] [code].









Teaching Experience

- 09/2023 - 12/2023  **Teaching Assistant**, COMP2211: Exploring Artificial Intelligence, HKUST
- 02/2023 - 05/2023  **Teaching Assistant**, COMP4332: Big Data Mining and Management, HKUST
- 08/2017 - 07/2018  **Teaching Assistant**, CMATH Mathematics Center, Hanoi

Working Experience

- 06/2022 - 08/2022  **Software Engineer Intern**, Eureka FinTech Limited, Hong Kong
- 09/2021 - 06/2022  **Research Assistant**, Knowledge Computation Group, HKUST
- 03/2021 - 09/2021  **AI Engineer Intern**, R&D group, Vietnam Technology International, Hanoi
- 09/2019 - 09/2021  **Research Assistant**, HKUST Cheminformatics Lab (led by Prof. Haibin SU), HKUST

Awards and Achievements




- 2023  **Area Chair Award**, Language Modeling and Analysis Track, IJCNLP-AAACL 2023
- 2022-2024  **Postgraduate Studentship**, HKUST
- 2022  **Academic Achievement Medalist of UG Class of 2022**, HKUST
- 2019-2022  **Chern Class Achievement Scholarship with outstanding performance**, HKUST
- 2021, 2022  **Epsilon Fund Award**, HKUST
- 2018-2022  **Dean's List Student** (All semesters except Spring 2021), HKUST
-  **University Scholarship**, HKUST
- 2017  **Bronze Medalist**, 58th International Mathematical Olympiad

Miscellaneous Experience




Talks

- 04/2024  ConstraintChecker: A Plugin for Large Language Models to Reason on Commonsense Knowledge Bases (HKUST CSE RTF 2024)

Services

- Reviewer  EMNLP'22,23,24, ACL'23, AACL'23, EACL'24
- Volunteer  IJCAI'23
- Others 
 - Guest speaker @ HKUST DSCT Alumni Sharing 2022
 - Representative @ HKUST RGC Visit 2023
 - Head of Event Organization @ VSAHK 2023
 - Speaker @ MathTalk 2024 (Vietnam)

Skills

- Languages  Vietnamese (*Native*), English (*Full Proficiency*), Chinese (*Elementary Proficiency*)
- Coding  Python, PyTorch, familiar to TPU-training and Cloud Computing
- Misc.  Seminar/event organization, Mental health First aid, Presentation (sample)

References

Dr. Tu Vu

Assistant Professor
Virginia Tech
Blacksburg, VA, USA
✉ tuvu@vt.edu

Dr. Yangqiu Song

Associate Professor
HKUST
Clear Water Bay, Hong Kong
✉ yqsong@cse.ust.hk

Dr. Tianqing Fang

Research Scientist
Tencent
Shenzhen, China
✉ tfangaa@cse.ust.hk