



DO, Van Quyet



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Research Interests

The two main problems with current LLMs that I am concerned are efficient learning ability and generalized reasoning ability. Therefore, for future research, I will focus on the following areas:


- **Neuro-symbolic reasoning methods:** I intend to investigate the utilization of external resources, specifically existing knowledge graphs, in order to facilitate the identification and rectification of erroneous beliefs within language models.
- **Efficient (transfer) learning:** I aspire to enable LMs to learn from very little supervision, which is a hallmark of human intelligence. I am particularly interested in how to discover and effectively finetune the most critical subnetworks of LMs w.r.t to each task.

Education




- 08/2022 - Present  **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 2/39)
First Class Honors with Academic Achievement Medal

Research Publications




Articles

- 1 T. Fang, **Q. V. Do**, S. Choi, W. Wang, and Y. Song, "CKBP v2: An expert-annotated evaluation set for commonsense knowledge base population," *ArXiv*, vol. abs/2304.10392, 2023.  URL: <https://api.semanticscholar.org/CorpusID:258236552>.





Conference Proceedings

- 1 **Q. V. Do**, T. Fang, S. Diao, Z. Wang, and Y. Song, "ConstraintChecker: A plugin for large language models to reason on commonsense knowledge bases," in *Proceedings of EACL*, St. Julians, Malta: Association for Computational Linguistics, Mar. 2024.
- 2 Y. Bang, S. Cahyawijaya, N. Lee, *et al.*, "A multitask, multilingual, multimodal evaluation of chatgpt on reasoning, hallucination, and interactivity," in *Proceedings of IJCNLP-AACL*, Nusa Dua, Bali: Association for Computational Linguistics, Nov. 2023, pp. 675–718.  URL: <https://aclanthology.org/2023.ijcnlp-long.45>.
- 3 Z. Wang, **Q. V. Do**, H. Zhang, *et al.*, "COLA: Contextualized commonsense causal reasoning from the causal inference perspective," in *Proceedings of ACL*, Toronto, Canada: Association for Computational Linguistics, Jul. 2023, pp. 5253–5271.  DOI: [10.18653/v1/2023.acl-long.288](https://doi.org/10.18653/v1/2023.acl-long.288).
- 4 T. Fang, **Q. V. Do**, H. Zhang, Y. Song, G. Y. Wong, and S. See, "PseudoReasoner: Leveraging pseudo labels for commonsense knowledge base population," in *Findings of the EMNLP*, Abu Dhabi, United Arab Emirates: Association for Computational Linguistics, Dec. 2022, pp. 3379–3394.  DOI: [10.18653/v1/2022.findings-emnlp.246](https://doi.org/10.18653/v1/2022.findings-emnlp.246).









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  **AI 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

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)

Services

- Reviewer  EMNLP'22,23, 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)

References

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