

DO, Van Quyet

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🎓 Semantic Scholar

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Research Interests

The two main problems with current LLMs that I am concerned are complex-instruction following capability and efficient learning ability. Therefore, I working on the following research topics:

- **Instruction following capability:** Enhancing LLMs' complex-instruction-following capabilities
- **Model merging:** Merging models's weights (of difference size, different pretraining procedure, etc.) to keep strengths and minimize weaknesses of models in the merged model.

Education

- 08/2024 - present 🎓 **Ph.D. Computer Science and Applications**
Virginia Tech
Supervisor: Prof. Tu Vu
Specialization: *Natural Language Processing, Transfer Learning*
- 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 2/39)
First Class Honors with Academic Achievement Medal


Research Publications

Articles




- 1 **Q. V. Do**, J. Li, T.-D. Vuong, Z. Wang, Y. Song, and X. Ma, "What Really is Commonsense Knowledge," *Under Review*, 2024.
- 2 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 H. Lovenia, R. Mahendra, S. M. Akbar, *et al.*, "SEACrowd: A Multilingual Multimodal Data Hub and Benchmark Suite for Southeast Asian Languages," in *Proceedings of EMNLP*, Miami, USA: Association for Computational Linguistics, Nov. 2024. 🔗 URL: <https://arxiv.org/abs/2406.10118>.
- 3 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>.
- 4 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).

- 5 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.









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, 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

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