Liangchen Luo

| **Contact Information** | Google BRT2
51 Breithaupt St
Kitchener, ON N2H 5G5, Canada | *Website*: www.luolc.com
Email: luolc@google.com
Mobile: +1 (669) 467-0255 |

Research Interests	Large Language Models, Natural Language Processing, Learning Theory, Model Compression, Vision

Education	**Peking University (PKU)** School of Earth and Space Science B.Sc., in the Specialty of Geographical Information Science	2014 – 2019

Research Experience

Google

- **Sense NLU & pAI NLP**, Research
  Research Engineer — Mar 2023 – Present
- **Cloud Semantic Search**, Cloud AI
  Software Engineer — Sep 2021 – Mar 2023
- **Mobile Models**, Research
  AI Resident, advised by Andrew Howard and Mark Sandler — Oct 2019 – Jun 2021

NLP Group, DiDi AI Labs
Research Intern, advised by Yan Liu — Jul 2018 – Nov 2018

Big Data Mining Group, Microsoft Research Asia
Research Intern, advised by Wenhao Huang and Zaiqing Nie — Jul 2017 – May 2018

Publications

8. Adaptive Gradient Methods with Dynamic Bound of Learning Rate.
   Liangchen Luo*, Yuanhao Xiong*, Yan Liu, Xu Sun.
   In *Proceedings of the 7th International Conference on Learning Representations (ICLR)*. 2019.

7. Learning Personalized End-to-End Goal-Oriented Dialog.
   Liangchen Luo, Wenhao Huang, Qi Zeng, Zaiqing Nie, Xu Sun.
   In *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*. 2019.

6. Text Assisted Insight Ranking Using Context-Aware Memory Network.
   Qi Zeng*, **Liangchen Luo***, Wenhao Huang, Yang Tang.
   In *Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)*. 2019.

5. An Auto-Encoder Matching Model for Learning Utterance-Level Semantic Dependency in Dialogue Generation.
   Liangchen Luo*, Jingjing Xu*, Junyang Lin, Qi Zeng, Xu Sun.
   In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. 2018.

Manuscripts

4. Bridging the Gap Between Object Detection and User Intent via Query-Modulation.
   Marco Fornoni, Chaochao Yan, **Liangchen Luo**, Kimberly Wilber, Alex Stark, Yin Cui, Boqing Gong, Andrew Howard.
   arXiv preprint arXiv:2106.10258. 2021.

3. Large-Scale Generative Data-Free Distillation.
   Liangchen Luo, Mark Sandler, Zi Lin, Andrey Zhmoginov, Andrew Howard.
   arXiv preprint arXiv:2012.05578. 2020.

2. Image Segmentation via Cellular Automata.
   Mark Sandler, Andrey Zhmoginov, **Liangchen Luo**, Alexander Mordvintsev, Ettore Randazzo, Blaise Agúera y Arcas.
   arXiv preprint arXiv:2008.04965. 2020.

1. MUSE: Parallel Multi-Scale Attention for Sequence to Sequence Learning.
   Guangxiang Zhao, Xu Sun, Jingjing Xu, Zhiyuan Zhang, **Liangchen Luo**.
   arXiv preprint arXiv:1911.09483. 2019.

Professional Service

- Program committee member, the Conference on Neural Information Processing Systems (NeurIPS), 2023.
- Program committee member, the International Conference on Machine Learning (ICML), 2023.
- Program committee member, the International Conference on Learning Representations (ICLR), 2021.
- Program committee member, the Annual Meeting of the Association for Computational Linguistics (ACL), 2019.
- Program committee member, the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2019.
- Program committee member, the AAAI Conference on Artificial Intelligence (AAAI), 2020.

Awards & Honors

• Academic Excellence Award, Peking University	2018
• Liao Kaiyuan Scholarship, Peking University	2018
• Study Excellence Award, Peking University	2015
• May Fourth Scholarship, Peking University	2015
• First prize of National Olympiad in Informatics in Provinces $\times$ 3, China	2011 – 2013