# Wenda Qin

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## Education

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| **Boston University**, Boston, MA | 2025 (expected) |
| Candidate for PhD in Computer Science | GPA: 4.00 |

Dissertation: Advancing Specialized Multimodal Models Through Data Curation and Refinement Strategies

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| **Boston University**, Boston, MA | Sept. 2016 - Jul. 2018 |
| Master of Science | GPA: 3.64 |
| **South China University of Technology**, Guangdong, China | Sept. 2012 - Jul. 2016 |
| Bachelor of Software Engineering | GPA: 3.62 |

## Skills & Interests

**Programming:** Proficient in Python, PyTorch, and OpenCV, with experience in Java, C++, and OpenGL
**Artificial Intelligence:** Vision-and-Language Navigation, Vision-and-Language Model, Multimodal Learning, Efficient Model, Large Language Model

## Experience

**INDUSTRY INTERNSHIPS**

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| **Xmotors.ai**, Santa Clara, CA | Jan. 2022 - Jun. 2022 |
| Research Intern | |

- Built a captioning model for 3D scenes with bi-directional paths that enable the translation from objects to caption and from caption to objects.

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| **Honda Research Institute USA, Inc.**, San Jose, CA | Jan. 2021 - May. 2021 |
| Research Intern | |

- Developed snapshot-ensemble-based method for improvement of Vision-and-Language Navigation models.

## Selected Publications

- "Read and Walk Less: Improving the Efficiency of Vision-and-Language Navigation via Finetuning-Free Textual, Visual, and Topological Token Pruning", **Wenda Qin**, Andrea Burns, Bryan A. Plummer, and Margrit Betke, *in progress*.
- "Machine-generated Text Localization", Zhongping Zhang, **Wenda Qin**, and Bryan A. Plummer, *Findings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, 2024
- "Age-constrained Ear Recognition: The EICZA Dataset and SASE Baseline Model", **Wenda Qin**, Lauren Etter, Alinani Simukanga, Christopher J Gill, and Margrit Betke, *IEEE International Joint Conference on Biometrics (IJCB)*, 2023.
- "LAL: Linguistically Aware Learning for Scene Text Recognition", Yi Zheng, **Wenda Qin**, Derry Wijaya, and Margrit Betke, *the 28th ACM International Conference on Multimedia (ACM-MM)*, 2020.
- "Explore the Potential Performance of Vision-and-language Navigation Model: a Snapshot Ensemble Method", **Wenda Qin**, Teruhisa Misu, and Derry Wijaya, *arXiv preprint*, 2021.
- "Extracting Text from Scanned Arabic Books: a Large-scale Benchmark Dataset and a Fine-tuned Faster-R-CNN Model", Randa Elanwar, **Wenda Qin**, Margrit Betke, and Derry Wijaya, *International Journal on Document Analysis and Recognition (IJDAR)*, 2021.
- "Text and Metadata Extraction from Scanned Arabic Documents using Support Vector Machines", **Wenda Qin**, Randa Elanwar, and Margrit Betke, *Journal of Information Science*, 2022.

## Award & Professional Activities

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| **Best Poster:** IEEE International Joint Conference on Biometrics (IJCB) | 2023 |
| **Conference Paper Reviewer:** | 2021-2024 |

- CVPR'22, '23,'24, ECCV'22, '24, ICCV'23