

# Jia Peng Lim

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Singaporean Citizen, Singapore

## Summary

Research Experience of 4 years, involved ideating and executing Artificial Intelligence (AI) research projects, including research on Large Language Models. I use Python, C++, Java and Machine Learning frameworks like PyTorch to prototype and pursue research objectives, which led to the publishing of first-author research papers in Top AI conferences such as ACL, EMNLP, and NeurIPS.

## Education

*Ph.D. Computer Science, Singapore Management University* 08/2021 – 05/2026 (Expected)

*B.Sc. Information Systems, Singapore Management University* 08/2017 – 05/2021

cGPA: 4.00/4.00, Summa Cum Laude

## Publications

A Partition Cover Approach to Tokenization, *NeurIPS 2025 (to appear)* [link]

[Jia Peng Lim](#), Shawn Tan, Davin Choo, and Hady W. Lauw

Interpreting Topic Models in Byte-Pair Encoding Space, *COLING 2025* [link]

[Jia Peng Lim](#) and Hady W. Lauw

Aligning Human and Computational Coherence Evaluations, *CL Journal 2024* [link].

[Jia Peng Lim](#) and Hady W. Lauw

Disentangling Transformer Language Models as Superposed Topic Models, *EMNLP 2023 (Main)* [link]

[Jia Peng Lim](#) and Hady W. Lauw

Large-Scale Correlation Analysis of Automated Metrics for Topic Models, *ACL 2023 (Main)* [link]

[Jia Peng Lim](#) and Hady W. Lauw

Towards Reinterpreting Neural Topic Models via Composite Activations, *EMNLP 2022 (Main)* [link]

[Jia Peng Lim](#) and Hady W. Lauw

## Awards

AISG Research PhD Fellowship Award (2023 – 2025)

Singapore Data Science Consortium Dissertation Research Fellowship (2023)

SMU Presidential Doctoral Fellowship (2023 – 2025)

Ph.D. Dean's List (2024)

PayPal Fintech Scholarship (2018 – 2021)

Undergraduate Dean's List (2018, 2019, 2020)

Top First Year Information Systems Student (2018)

## Work Experience

*AI Robotics Intern, Bosch Digital Innovation, Singapore*

08/2025 – Current

Proposed and developed an automated approach to build a multi-modal knowledge graph, extracting information from images using traditional and deep learning/GenAI computer vision techniques (OpenCV, PyTorch), in the context of augmenting spatial information fed to fixed-armed robots for manufacturing automation.

*Data Engineering Intern, Lucence, Singapore*

05/2020 – 08/2020

Build serverless Extra, Transform, Load (ETL) pipelines and applications hosted on Amazon Web Services, to curate and serve customized data requirements for organizational research needs in biotechnology space.

*Software Engineering Intern, PayPal, Singapore*

05/2019 – 08/2019

Research, designed and implemented a Java library on Conflict-free Replicated Data Types. The subsequent code went into production, assisting in the organization's goal of full active-active redundancy.

## Community Service

*Senior Teaching Assistant for Undergraduate Courses*

Current

1. Smart-City Operations Research
2. Managing Customer Relations in Asia

*Instructor for IMDA-Google AI Accelerator*

06/2025

Served as one of the instructors in a team that taught high school students about AI (Computer Vision) using Python and PyTorch during a one-week intensive bootcamp in the Summer of 2025. Using a novel dataset provided by sponsors, I also designed a final project problem, which the students worked on for a week before their final presentation.

*Conference Organizing Committee*

Served as the aide-de-camp to the programme chair of ACM Web Search and Data Mining (WSDM) 2023 and TheWebConf (WWW) 2024.