

# Ming-Bin (Bryan) Chen

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## SUMMARY

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PhD Candidate in Computing and Information Systems at the University of Melbourne researching NLP, conversational AI, and evaluation of facilitated multi-party dialogue. Publications at NAACL 2025, Findings of ACL 2025, ACL 2024, and ALTA 2023; prior industry experience building ML pipelines for document understanding.

**Skills:** Python, Java, SQL; NLP, large language models, dialogue systems, machine learning, model evaluation, experiment design, data annotation.

## EDUCATION

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**University of Melbourne** — PhD Candidate, Computing and Information Systems | 2023–Present

**University of Auckland** — Master of Computer Science | 2020–2021

**University of Auckland** — Master of Information Technology, First Class Honours, IET Award, GPA 8.5/9 | 2017–2018

**University of Auckland** — Conjoint Bachelor of Arts and Science | 2012–2016

## RESEARCH EXPERIENCE

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**MIT Media Lab — Center for Constructive Communication** — Visiting Graduate Student | Oct 2025–Jan 2026

- Conducted collaborative research on group conversation dynamics and AI-supported facilitator training in multi-party discussion settings.
- Developed and presented ongoing work on conversation simulation, persona grounding, and evaluation for facilitator training.

**University of Melbourne** — PhD Researcher | 2023–Present

- Designed computational methods to characterize facilitative interventions and evaluate dialogue quality in deliberative and educational group conversations.
- Led first-author research on cross-domain moderation analysis (NAACL 2025) and empathy–toxicity dynamics in online support forums (ALTA 2023).
- Contributed to research on measuring conversational moderation impact in English-as-a-second-language group discussion (Findings of ACL 2025).

## PROFESSIONAL EXPERIENCE

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**University of Melbourne** — Head Tutor, Natural Language Processing (COMP90042) | 2024

- Led tutorial organization and assignment administration for a graduate NLP course; supported students in Python-based text processing and ML workflows.

**University of Auckland** — Professional Teaching Fellow, COMPSCI 718 Java Programming | 2021–2022

- Delivered teaching support for university-level Java programming and student lab work.

**Xtracta Limited** — R&D AI Engineer | 2019–2021

- Developed ML pipelines for document splitting and line-item extraction and helped transition extraction components toward a data-driven workflow.
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## SELECTED PUBLICATIONS

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- Chen, M.-B., Lau, J. H., & Frermann, L. CIG: Measuring Conversational Information Gain in Deliberative Dialogues with Semantic Memory Dynamics. ACL 2026.
- Chen, M.-B., Frermann, L., & Lau, J. H. WHOw: A Cross-domain Approach for Analysing Conversation Moderation. NAACL 2025.
- Gao, R., Chen, M.-B., Frermann, L., & Lau, J. H. Moderation Matters: Measuring Conversational Moderation Impact in English as a Second Language Group Discussion. Findings of ACL 2025.
- Li, M., Chen, M.-B., Tang, B., Hou, S., Wang, P., Deng, H., et al. NewsBench: A Systematic Evaluation Framework for Assessing Editorial Capabilities of Large Language Models in Chinese Journalism. ACL 2024.
- Chen, M.-B., Lau, J. H., & Frermann, L. The Uncivil Empathy: Investigating the Relation Between Empathy and Toxicity in Online Mental Health Support Forums. ALTA 2023 — Best Student Paper Award.

## AWARDS & SERVICE

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**Awards:** Len Stevens Scholarship (2024); Best Student Paper Award, ALTA (2023); IET Award, University of Auckland (2018).

**Service:** ALTA Student Representative (2025); UniMelb NLP Reading Group Coordinator (2024–2025).