

# Pei-Chi Lo 羅珮綺

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## SUMMARY

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Pei-Chi is an Assistant Professor at National Sun Yat-sen University. Driven by a passion for academia and research, she obtained her PhD degree from Singapore Management University (SMU) and has actively involved in research projects related to smart social and urban analytics. Pei-Chi's research interests lie primarily in knowledge graph-based information retrieval, user profiling, and computational linguistics. She has demonstrated her expertise by publishing papers in internationally recognized conferences and journals, including SIGIR, TOIS, TMIS, and ICWSM.

## EDUCATION

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### Singapore Management University

*PhD in Computer Science*

**Singapore**

*Jan 2018-Jun 2023*

**Dissertation:** Connecting The Dots for Contextual Information Retrieval

**Supervisor:** Prof. Ee-Peng Lim

**Dissertation Committee:**

Prof. Jing Jiang (Singapore Management University)

Asst. Prof. Yuan Fang (Singapore Management University)

Assoc. Prof. Aixin Sun (Nanyang Technological University)

### National Sun Yat-sen University

*M.B.A., Management in Information Systems*

**Kaohsiung, Taiwan**

*Sep 2015-Jul 2016*

**Thesis:** Quality Analysis and Prediction of User Reviews Using Discourse Structure

**Supervisor:** Prof. San-Yih Hwang

### National Sun Yat-sen University

*B.A., Management in Information Systems*

**Kaohsiung, Taiwan**

*Sep 2011-Jun 2015*

## PROFESSIONAL EXPERIENCE

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### National Sun Yat-sen University

*Assistant Professor*

**Kaohsiung City, Taiwan**

*Feb 2024 - Present*

### National Cheng-Kung University - Academia Sinica

*PostDoc Researcher*

**Tainan City, Taiwan**

*Jul 2023 - Jan 2024*

- Lead a research project focusing on knowledge graph-based fake news detection and mitigation.
- Develop models for retrieving facts from knowledge graphs to counter potential fake news.
- Design systems to recommend credible news amidst prevalent fake news.
- Construct real-time fake news detection datasets.

### Living Analytic Research Centre, SMU

*Research Engineer*

**Singapore, Singapore**

*Jul-Dec 2017*

- Collaborated with external research agencies.
- Developed models for learning Singlish (an English creole language) words and their meaning

from user-generated content, including tweets and online forum posts.

- Developed linguistic inquiry and word count toolkit (S-LIWC) to measure psychometric profiles from content generated by Singlish speaking users.
- Conducted user surveys to collect user content and profile label data for developing and evaluating prediction models for personality traits.
- Published three conference papers based on the experiments and findings in this project.

**Department of Information Systems, NSYSU**

**Research Assistant**

**Kaohsiung, Taiwan**

*Jul 2016-Jun 2017*

- Collaborated with industry and created a social listening system.
- Designed and maintained the system backend, including database system and server deployment.
- Developed real-time topic modeling and sentiment detection tools on online forums and news.
- Trained and supervised master's and undergraduate students to build a natural language processing web application for academic researchers.

## PUBLICATIONS

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- **Lo, Pei-Chi**, Tsai, Yi-Hang, Lim, Ee-Peng, & Hwang, San-Yih (2023). On Exploring the Reasoning Capability of Large Language Models with Knowledge Graphs. In SIGIR Workshop on Generative Information Retrieval (Gen-IR@SIGIR23).
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2023). Non-Monotonic Generation of Knowledge Paths for Context Understanding. *ACM Transactions on Management Information Systems (Accepted)*.
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2023). A Transformer Framework for Generating Context-Aware Knowledge Graph Paths. *Applied Intelligence*.
- **Lo, Pei-Chi**, Lee, Yang-Yin, Chen, Hsien-Hao, Kwee, Angus Trisnajaya, & Lim, Ee-Peng (2023). Contrastive Learning Approach to Word-in-Context Task for Low-Resource Languages. In AACL Workshop on Knowledge Augmented Methods for NLP (KnowledgeNLP-AAAI'23).
- Hsieh, Lee-Hsun, Chua, Nam-Chew, Kwee, Angus Trisnajaya, **Lo, Pei-Chi**, Lee, Yang-Yin & Lim, Ee-Peng (2022). Singlish Checker: A Tool for Understanding and Analysing an English Creole Language. In The 24th International Conference on Asia-Pacific Digital Libraries.
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2022). Your Cursor Reveals: On Analyzing Workers' Browsing Behavior and Annotation Quality In Crowdsourcing Tasks. *IEEE Access*.
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2022). Contextual Path Retrieval: A Contextual Entity Relation Embedding-based Approach. *ACM Transactions on Information Systems. (Presented in SIGIR 2023)*.
- Silva, Amila, **Lo, Pei-Chi**, & Lim, Ee-Peng (2021). On Predicting Personal Values of Social Media Users using Community-Specific Language Features and Personal Value Correlation. *Proceedings of the International AACL Conference on Web and Social Media*, 15(1), 680-690.
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2020). Co-Embedding Attributed Networks with External Knowledge. *2020 IEEE International Conference on Big Data (Short Paper)*.
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2020). Interactive Entity Linking Using Entity-Word Representations. In *Proceedings of the 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval* (pp. 1801-1804).
- Silva, Amila, **Lo, Pei-Chi**, & Lim, Ee-Peng (2020). JPLink: on linking jobs to vocational interest types. In *Pacific-Asia Conference on Knowledge Discovery and Data Mining* (pp. 220-232).
- **Lo, Pei-Chi**, & Lim, Ee-Peng (2018). On learning psycholinguistics tools for english-based creole

languages using social media data. In 2018 IEEE International Conference on Big Data (pp. 751-760).

- Lai, Chia-Yu, **Lo, Pei-Chi**, & Hwang, San-Yih, Incorporating Comment Text into Success Prediction of Crowdfunding Campaigns (2017). In 2017 Pacific Asia Conference on Information Systems. 156.

## TEACHING EXPERIENCE

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### Lecturer

*MIS998 - Digital Marketing & Analytics, National Sun Yat-sen University*

**Taiwan**

*Feb-Jun 2024*

- [Course Information \(Traditional Chinese\)](#)

### Senior Teaching Assistant

*Research Topics in Information Systems, Singapore Management University*

**Singapore**

*Apr-Jul 2020*

- Organized and led weekly discussions for first-year PhD students on research topics.
- Evaluated and critiqued students on their presentation skills.
- Taught a session on presentation slide planning and design.

### Graduate Instructor Foundations in Teaching Program (GIFT)

*Centre of Teaching Excellence, Singapore Management University*

**Singapore**

*May 2020*

- Completed pre-training activities including teaching observation and reading assessment.
- Undertook training sessions covering teaching foundations, instructional strategies, course planning, and student assessment design.
- Passed the post-training assessment which included a 4-minute video presentation on lesson design of my own discipline [[video link](#)].

### Senior Teaching Assistant

*IS112 - Data Management, Singapore Management University*

**Singapore**

*Apr-Jul 2020*

- Assisted lecturers in test and project assessment.

### Teaching Assistant

*MIS205 - Database Management, National Sun Yat-sen University*

**Taiwan**

*Jan-Jun 2016*

- Assisted lecturers in test and project assessment.
- Tutored students and held office hours.

## AWARDS & SCHOLARSHIPS

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- Finalist, Legal-Tech Hackathon, LawsNote *Sep 2021*
- PhD Full Scholarships, Singapore Management University *2018-21*
- Five-Year BA-MA Program Scholarship, National Sun Yat-sen University *2015-16*

## GRANTS

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- Singlish Learning by Crowdsourcing, DSO National Laboratories, Singapore, **Co-Investigator**, 2020, SGD\$612,300
- Research on Cross-Lingual Opinion Mining (多語言意見探勘的研究), Ministry of Science and Technology (MOST), Taiwan, **Co-author of Proposal**, 2017, TWD\$2,665,000

## PROFESSIONAL SERVICES

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- **Reviewer**. Journal of e-Business, 2024
- **Reviewer**. Knowledge and Information Systems, 2024
- **Reviewer**. Cluster Computing, 2024
- **Reviewer**. Frontiers of Computer Science, 2023
- **Reviewer**. Thirty-Sixth AAAI Conference on Artificial Intelligence, 2021
- **Reviewer**. Electronic Commerce Research and Applications, 2021
- **Reviewer**. Thirty-Fifth AAAI Conference on Artificial Intelligence, 2020

## LANGUAGES

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- English - Full Professional Proficiency
- Mandarin - Native
- Japanese - Limited Working Proficiency. Passed JLPT N2.

## REFERENCES

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**Ee-Peng Lim**, Professor of Computer Science  
School of Computing and Information Systems, Singapore Management University  
(+65)68280781, eplim@smu.edu.sg

**San-Yih Hwang**, Professor  
Department of Information Management, National Sun Yat-sen University  
(+886)7-5252000 ext.4723, syhwang@mis.nsysu.edu.tw

**Jing Jiang**, Professor of Computer Science  
School of Computing and Information Systems, Singapore Management University  
(+65)68280785, jingjiang@smu.edu.sg

**Yuan Fang**, Assistant Professor of Computer Science  
School of Computing and Information Systems, Singapore Management University  
(+65)68085150, yfang@smu.edu.sg