

Ziming Li

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📌 My research interests are Dialogue systems, Information Retrieval and Inverse Reinforcement Learning



Education

- 2016 – 2020 📌 **PhD Candidate, University of Amsterdam, Netherlands**
Supervisor: Prof. Dr. Maarten de Rijke
Co-Supervisor: Dr. Julia Kiseleva
Research Topic: Information Retrieval, Dialogue systems and Inverse Reinforcement Learning
- 2013 – 2016 📌 **M.Sc. Computer Science, Xiamen University, China**
Supervisor: Dr. Xiangrong Liu
Research Topic: Membrane Computing, Bioinformatics
GPA: 3.4/4.0
Thesis Title: Research on Some Mathematical Problems Based on Time-free P Systems (9.2/10, Outstanding Master Thesis Title)
- 2009 – 2013 📌 **B.Sc. Computer Science, Xiamen University, China**
GPA: 3.6/4.0
Thesis Title: Parameterization of Triangular Meshes (graded 8.9/10, Outstanding Bachelor Thesis Title)

Internships

- 05/2019 – 08/2019 📌 Deep Learning Group, Microsoft Research, Redmond
- 05/2020 – 08/2020 📌 Amazon Alexa, Seattle (virtual internship)

Research Publications

- 1 Li, Z., Kiseleva, J., Agarwal, A., de Rijke, M. & White, R. W. (2020). Optimizing interactive systems via data-driven objectives. *arXiv preprint arXiv:2006.12999*.
- 2 Li, Z., Kiseleva, J. & de Rijke, M. (2020). Rethinking supervised learning and reinforcement learning in task-oriented dialogue systems. *Findings of EMNLP 2020*.
- 3 Li, Z., Lee, S., Peng, B., Li, J., Kiseleva, J., de Rijke, M., ... Gao, J. (2020). Guided dialogue policy learning without adversarial learning in the loop. *Findings of EMNLP 2020*.
- 4 Li, Z., Kiseleva, J., Agarwal, A. & de Rijke, M. (2019). Learning data-driven objectives to optimize interactive systems. *LIRE workshop, NeurIPS 2019*.
- 5 Li, Z., Kiseleva, J. & de Rijke, M. (2019). Dialogue generation: From imitation learning to inverse reinforcement learning. *AAAI 2019*.
- 6 Li, Z. & de Rijke, M. (2017). The impact of linkage methods in hierarchical clustering for active learning to rank. *SIGIR 2017*, 941–944.
- 7 Li, Z., Kiseleva, J., de Rijke, M. & Grotov, A. (2017). Towards learning reward functions from user interactions. *ICTIR 2017*, 289–292.

- 8 Liu, X., Li, Z., Liu, J., Liu, L. & Zeng, X. (2015). Implementation of arithmetic operations with time-free spiking neural p systems. *IEEE transactions on nanobioscience*, 14(6), 617–624.
- 9 Liu, X., Li, Z., Suo, J., Liu, J. & Min, X. (2015). A uniform solution to integer factorization using time-free spiking neural p system. *Neural Computing and Applications*, 26(5), 1241–1247.
- 10 Liu, X., Suo, J., Li, Z., Zou, Q., Liu, J. & Ju, Y. (2015). Reusable logic gates based on dna strand branch migration. *Journal of Computational and Theoretical Nanoscience*, 12(8), 1624–1629.
- 11 Liu, X., Li, Z., Suo, J., Ju, Y., Liu, J. & Zeng, X. (2014). Solving multidimensional 0-1 knapsack problem with time-free tissue p systems. *Journal of Applied Mathematics*.

Awards and Achievements

- 2014 🏆 National Scholarship for outstanding Postgraduate students, China
- 2015 🏆 National Scholarship for outstanding Postgraduate students, China

Projects

- 2018–2019 🏆 Google Faculty Research Award: Conversational Search
Responsibility: optimizing dialogue systems with data-driven objectives
- 2013–2016 🏆 National Natural Science Foundation of China: Research on Complicated Molecular Logic Circuits based on Nucleic Acid System (Grant Nos. 61472333)
Responsibility: Implementing the simulation of molecular circuit with *seesaw* gate
- 🏆 National Natural Science Foundation of China: Spiking neural P systems based on molecular technology (Grant Nos. 61202011)
Responsibility: Applying time-free P systems to solve mathematical problems, such as multidimensional 0-1 Knapsack problem (MKP)

Teaching Experience

- TAing 🏆 Information Retrieval 1 (2018), University of Amsterdam, Netherlands
- Supervision 🏆 Two Master theses (2018), University of Amsterdam, Netherlands
- Title: *Cyclists' Route Choice in Amsterdam: Finding Factors of Influence and Predicting Cyclists' Route Choice*, with Chris Olberts
 - Title: *How to measure a neighborhood: Exploring geo-spatial data enrichment and neighborhood embeddings for housing price prediction*, with Guus Bobeldijk
- Two Master theses (2019), University of Amsterdam, Netherlands
- Title: *Text Classification for Ground Lease Documents*, with Rouel de Romas
 - Title: *Predicting salary using Job posting data*, with Roma Bakhyshev

Academic Activities

- Reviewing 🏆 Reviewer for AAAI'21, TOIS, IPM and Information Retrieval Journal
 Sub-reviewer for ECIR'18, SIGIR'18, CIKM'18, NAACL'19 and SIGIR'19
- Summer School 🏆 European Summer School in Information Retrieval 2017, Barcelona, Spain

Skills

Tools & Technologies 📌 Numpy, PyTorch, Tensorflow
Coding 📌 Python, C, L^AT_EX

Languages

Native 📌 Chinese
Professional working proficiency 📌 English