

# Ziming Li

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🌐 <http://www.zimingli.info/>

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



## Education

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- 2016 – now    📌 **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)

## Research Publications

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- 1 Li, Z., Kiseleva, J. & de Rijke, M. (2019a). Diagnosing and optimizing a task-oriented dialogue system with reward shaping. *To be submitted, May 2019.*
- 2 Li, Z., Kiseleva, J. & de Rijke, M. (2019b). Dialogue generation: From imitation learning to inverse reinforcement learning. *AAAI 2019.*
- 3 Li, Z., Grotov, A., Kiseleva, J., de Rijke, M. & Oosterhuis, H. (2018). Optimizing interactive systems with data-driven objectives. *arXiv preprint arXiv:1802.06306.*
- 4 Li, Z. & de Rijke, M. (2017). The impact of linkage methods in hierarchical clustering for active learning to rank. *SIGIR 2017*, 941–944.
- 5 Li, Z., Kiseleva, J., de Rijke, M. & Grotov, A. (2017). Towards learning reward functions from user interactions. *ICTIR 2017*, 289–292.

- 6 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.
- 7 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.
- 8 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*.

## Internships

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05/2019 - 08/2019 (planned)    ■ NLP group, Microsoft Research AI, Redmond

## Awards and Achievements

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

## Projects

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- 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

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- 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

## **Academic Activities**

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- Reviewing    📌 Reviewer for TOIS and IPM  
   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**

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- Tools & Technologies    📌 Numpy, Tensorflow, PyTorch
- Coding    📌 Python, C, L<sup>A</sup>T<sub>E</sub>X

## **Languages**

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- Native    📌 Chinese
- Professional working proficiency    📌 English