

# HUITING HONG

Machine Learning  
Representing Learning

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**IIB-2018-summer chair** (IEEE  
Intelligent Informatics Bulletin)

## 🎓 EDUCATION

### BEIJING INSTITUTE OF TECHNOLOGY, BIT

Sep. 2016 – Present

Master student in School of Computer  
Science & Technology

### CHINA AGRICULTURAL UNIVERSITY, CAU

Sep. 2012 – July 2016

B.S. in College of Information and Elec-  
trical Engineering

## ⚙️ SKILLS

### Program Language:

C++ & Python

### Deep learning Framework:

Tensorflow & sklearn

**Language:** English (CET6)

## ♥️ HONORS AND AWARDS

Superior Student of Beijing 2015

President Scholarship of CAU 2015

Excellent Cadres in CAU 2014

Excellent Member in CAU 2013

The National Scholarship in CAU 2014  
& 2015

Superior Student in CAU 2013 & 2014  
& 2015

## 👤 EXPERIENCE

### Beijing Xiaoju Technology Co, Ltd.

Apr. 2018 – Present

AI Labs Algorithm intern

I join in the department of Intelligent Customer Service of DiDi AI Labs as a algorithm intern. I mainly participated in the design of recommendation algorithm for intelligent customer service. And I won the honor of “excellent intern” during the internship.

### A Generative Adversarial Network Alignment

Dec. 2017 – Present

Python, Tensorflow Ongoing Research

Recent advances have shown that GANs (Generative Adversarial Networks) become the most promising framework for various learning tasks. Aligning multiple information networks has become an important research topic with great potential for industry, e.g., the established user correspondence for social networks can benefit applications like link prediction and cross-domain recommendation. To this end, I propose to explore the strength of GAN for alignment task.

### A Generative Adversarial Network Embedding

June 2017 – Dec. 2017

Python, Tensorflow Postgraduate Research

Generative Adversarial Networks (GANs) are promising frameworks for various learning tasks. Motivated by the empirical success of the adversarial training process, I propose Generative Adversarial Network Embedding (GANE) which draws support from link prediction to perform the network embedding. *This work have been published in arXiv.*

### Multi-relational Network Embedding

Aug. 2017 – Present

C++, Python NNSFC Program

Following the success of TransE, a series of translation-based methods have been proposed for multi-relational network embedding. However, the translation-based methods are constrained by  $h + r = t$  which cannot capture some structures, such as the finger game. For that, we have proposed a novel representation learning model for multi-relational networks which replaces the hard-constraint with soft-constraint and achieves a promising performance. *This work is being submitted to IEEE Transactions on Cybernetics (CCF A-level journal).*

### Point-of-interest Recommendation Based On Tensor Decomposition

Feb. 2015 – May 2016

C++, Python 973 Program

Point-of-interest (POI) recommendation is an important research of location based social network analysis. It's necessary to consider the user's long-term preferences, short-term preferences and other factors when making recommendation. In this, we have proposed a two-step approach to tackle POI recommendation: category prediction based on tensor factorization and location recommendation with proposed metrics. *This work have been published in ACM TOIS 2017 (CCF A-level journal).*

## 📄 PAPER PUBLICATIONS

[1] Xin Li, Mingming Jiang, Huiting Hong, Lejian Liao, “Time-aware Personalized Point-of-Interest Recommendation via High-order Tensor Factorization”, *ACM Transactions on Information Systems (TOIS)*, Volume 35, Issue 4: (31), August 2017 (CCF A-level journal)

[2] Xin Li, Huiting Hong, Lin Liu, William K. Cheung, “A structural representation learning for multi-relational networks.” arXiv preprint arXiv:1805.06197 (2018).

[3] Huiting Hong, Xin Li, Mingzhong Wang, “GANE: A Generative Adversarial Network Embedding.” arXiv preprint arXiv:1805.07324 (2018).