# Linlin Chen

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## Education

2015–present **Illinois Institute of Technology**
Ph.D Candidate in Computer Science
GPA: 4.0/4.0
Adviser: Prof. Xiang-Yang Li & Prof. Peng-Jun Wan

2011–2015 **University of Science and Technology of China**
B.E. in Computer Science
**Thesis**: *Learning Entity and Relation Embedding for Knowledge Graph and Synonymous Relation Inferring*

## Research Interests

Data Privacy & Security, Deep Learning, Machine Learning, Mobile Computing

## Professional Skills

Programming skills:

- ➢ *Frequent use of* C/C++, Java, Python, Matlab
- ➢ *Familiar with* R, Lua, SQL, HTML, CSS, JavaScript

Tools:

- ➢ *Frequent use of* PyTorch, Unix/Linux, Git
- ➢ *Familiar with* Hadoop, TensorFlow, Caffe

## Selected Projects

**Image Deep Mining** **Ongoing**

- ➢ Use deep learning to automatically dig for semantic relationships between images, intelligently manage personal albums and intuitively visualize photos, based on contents and contexts.
- ➢ Full responsibility.

**Crowded Deep Learning with Data Privacy** **May. 2016–Jul. 2016**

- ➢ Design and implement a crowdlearning protocol for deep learning training over multiple mobile devices, with training data maintaining over data owners' mobile device.
- ➢ Implement and evaluate the prototype with Torch deep learning framework.
- ➢ Full responsibility.

**Accountable Protocols for Big Data Trading** **Feb. 2016–May. 2016**

- ➢ Design accountable protocols to trace data for big data trading to prevent dishonest consumers from re-selling.
- ➢ Responsible for the evaluation over tabular and text data to proves high traceability.

**Big Data Trading Platform** **Feb. 2015–Dec. 2015**

- ➢ Build big data trading platform with fine-grained access control.

➢ Responsible for Hadoop and Hbase configuration, SQL database access control and front-end development.

**Graph-based Privacy Preserving Data Publishing** **Mar. 2015–Jun. 2015**

➢ Propose a graph-based framework for privacy preserving data publishing.
➢ Responsible for algorithm design and evaluations over tabular and time-series data.

**De-anonymizing Social Networks with Knowledge Graph** **Jun. 2015–Jul. 2015**

➢ De-anonymize social network data to infer user identities and targeted users' private attributes.
➢ Responsible for inferring users' private attributes with random walk and knowledge graph.

## Experience

**Teaching Assistant**, *Illinois Institute of Technology*

➢ CS536: Science of Programming **Spring 2017**
➢ CS535: Design & Analysis of Algorithms **Fall 2016**

**Research Assistant**, *Illinois Institute of Technology* **Aug. 2015–present**

➢ Wireless Networking Lab
➢ Adviser: Prof. Xiang-Yang Li & Prof. Peng-Jun Wan
➢ Privacy preserving data publishing, privacy preserving mobile deep learning, image deep mining, data trading, etc.

**Research Intern**, *Institute of Computing Technology, CAS* **Mar. 2015–Jun. 2015**

➢ Research Center of Web Data Science & Engineering
➢ Entity and relation embedding for knowledge graph and synonymous relation inferring.

**Research Assistant**, *University of Science and Technology of China* **Sept. 2013–Dec. 2014**

➢ Nature Inspired Computation and Applications Lab
➢ Fault diagnosis in the model space for automatic system.

**Research Assistant**, *University of Science and Technology of China* **Sept. 2012–Aug. 2013**

➢ Multi-Agent System Lab
➢ Implement gesture recognition, fall detection and stranger recognition in the domestic robot.

## Publications

1. *AccountTrade: Accountable Protocols for Big Data Trading Against Dishonest Consumers*, Taeho Jung, Xiang-Yang Li, Wenchao Huang, Jianwei Qian, **Linlin Chen**, Junze Han, Jiahui Hou, Cheng Su, IEEE INFOCOM, 2017
2. *Social Network De-Anonymization and Privacy Inference with Knowledge Graph Model*, Jianwei Qian, Xiang-Yang Li, Chunghong Zhang, **Linlin Chen**, Taeho Jung, Junze Han, IEEE TDSC, 2017
3. *Graph-Based Privacy-Preserving Data Publication*, Xiang-Yang Li, Chunhong Zhang, Taeho Jung, Jianwei Qian, **Linlin Chen**, IEEE INFOCOM, 2016
4. *De-anonymizing social networks and inferring private attributes using knowledge graphs*, Jianwei Qian, Xiang-Yang Li, Chunhong Zhang, **Linlin Chen**, IEEE INFOCOM, 2016

## Award

- Student Travel Grant, ACM MobiHoc **2015**
- Outstanding Student Scholarship (Grade 2) of USTC **Oct. 2014**
- Ministry of Education's Reward for the Undergraduate Projects of Innovation **May. 2014**

- Outstanding Volunteer Award **May. 2012**
- Outstanding Student Scholarship (Grade 2) of USTC **Oct. 2011**
- Outstanding Graduate Award (Grade 1) **Nov. 2011**

## Professional Activities

**Conference Reviewer** of:

- CBD **2017**
- BigCom **2016 & 2017**
- IPCCC **2016**
- NIPS **2016**
- MSN **2016**