

# Qian YANG

## PERSONAL DATA

---

ADDRESS: FIT 4-609, Tsinghua University, Beijing 100084, P. R. China  
PHONE: +86-139-1055-9346  
EMAIL: [laraqianyang@gmail.com](mailto:laraqianyang@gmail.com)  
HOMEPAGE: <http://www.larayang.com>

## EDUCATION

---

SEP 2012 — Doctor of Philosophy, Computer Science, Tsinghua University  
JUL 2017 Advisor: Prof. Gerard de Melo  
Research Interests: Natural Language Processing (especially Text Summarization, Open Information Extraction, Knowledge Graphs, Machine Translation), the intersection of AI and HCI, as well as Deep Learning techniques.

SEP 2008 — Bachelor of Science, Computer Science, Beijing University of Posts  
JUL 2012 and Telecommunications  
GPA RANK: Top 1%

## RESEARCH EXPERIENCE

---

SEP 2012 — *Ph.D. Candidate* at Tsinghua University, China  
JUL 2017 Group: Web Mining and Language Technology Group (WebLT)  
[Conference Paper #1](#), [Conference Paper #2](#), [Manuscript #1](#)

MAY 2016 — *Visiting Student* at RWTH Aachen University, Germany  
SEP 2016 Group: Human Language Technology and Pattern Recognition  
Topic: Machine Translation  
Supervisor: Prof. Dr.-Ing. Hermann Ney

JAN 2015 — *Visiting Student* at Columbia University, United States  
MAR 2015 Group: Center for Computational Learning Systems (CCLS)  
Topic: Assessment of Summaries  
Supervisor: Prof. Rebecca J. Passonneau  
[Conference Paper #3](#), [Journal Paper #1](#)

- Created *the first* fully automatic version of the pyramid method for summary evaluation, suitable for both students' and machine-generated summaries.
- Achieved results that approach the quality of human summary evaluation, opening up the possibility of wide-spread use in the education domain and elsewhere.

JUL 2014 *Intern*, Assigned to LinYang Electronics Co., Ltd. by Tsinghua University  
Topic: Data Encryption for Advanced Metering Infrastructure (AMI) System  
Department Manager: Jianfeng Yin, Team Manager: Aibo Shi  
Patent: CN104363219A  
Prize: Outstanding Individual in Graduates' Summer Internship, 2014  
[Journal Paper #2](#)

- Started a new topic in Information Security.
- Quickly learned the theory, designed a novel model to solve the practical problems of data encryption, which has been applied in the next generation of products.

- JUN 2009 — *Research Assistant*, Beijing University of Posts and Telecommunications
- JUN 2012      Lab: National Key Laboratory of Networking and Switching Technology  
Topic: Quantum Coin-flipping Protocols  
Supervisor: Prof. Fenzhuo Guo  
Prize: Award for Natural Science Innovation, 2011  
[Journal Paper #3](#), [Journal Paper #4](#)
- Developed two separate and novel semi-loss-tolerant quantum strong coin flipping protocols.
  - Cut down the bias to 0.3536, which is less than that of *all the previous* loss-tolerant protocols.
- JUN 2011 — *Research Assistant*, Beijing University of Posts and Telecommunications
- DEC 2011      Lab: Mathematical Innovation Laboratory  
Topic: Improvement of Artificial Bee Colony (ABC) Algorithm  
Supervisor: Prof. Xinchao Zhao  
Prize: Third Prize of Scilab Contest, 2011
- Proposed a simplified and improved Artificial Bee Colony algorithm with higher efficiency over *all the previous* similar algorithms tested by twenty-two standard test functions.
  - Implemented an Artificial Bee Colony toolbox for Scilab (an open-source software platform).

## PUBLICATIONS

---

### Manuscripts

1. LOVE: Disambiguation and Alignment of Properties via Linked Open Vocabularies Enrichment.  
**Qian Yang**, Gerard de Melo.

### Conference Papers

1. Neural Machine Translation with Pivot Languages.  
Yong Cheng, **Qian Yang**, Yang Liu, Maosong Sun, Wei Xu.  
*IJCAI 2017*.
2. HiText: Text Reading with Dynamic Saliency Marking.  
**Qian Yang**, Yong Cheng, Sen Wang, Gerard de Melo.  
*WWW 2017*.
3. PEAK: Pyramid Evaluation via Automated Knowledge Extraction.  
**Qian Yang**, Rebecca J. Passonneau, Gerard de Melo.  
*AAAI 2016*.

### Journal Papers

1. Wise Crowd Content Assessment and Educational Rubrics.  
Rebecca J. Passonneau, Ananya Poddar, Gaurav Gite, Alisa Krivokapic, **Qian Yang**, Dolores Perin.  
*International Journal of Artificial Intelligence in Education*, 10.1007/s40593-016-0128-6, 2016.
2. Research on the Key Management for AMI System Based on IEC62056 Standard.  
Jianfeng Yin, Aibo Shi, **Qian Yang**, Xiaohang Zhang, Liusheng Huang, Haitao Ji.  
*Electrical Measurement and Instrumentation*, Issue No. 2, 2016.
3. Semi-loss-tolerant Strong Quantum Coin-flipping Protocol Using Quantum Non-demolition Measurement.  
**Qian Yang**, Jiajun Ma, Fenzhuo Guo, Qiaoyan Wen.  
*Quantum Information Processing*, 10.1007/s11128-014-0747-5, 2014. Impact factor: 2.960 (2013)
4. Semi-loss-tolerant Strong Coin Flipping Protocol Using EPR Pairs.  
Jiajun Ma, Fenzhuo Guo, **Qian Yang**, Yanbin Li, Qiaoyan Wen.  
*Quantum Information and Computation*, Vol. 12 No. 5 and 6, 2011. Impact factor: 1.885 (2010)

## SELECTED HONORS AND AWARDS

---

- 2017 Google Women Techmakers Scholar, Asia Pacific (Among 8 from China)
- 2014 Outstanding Individual in Graduates' Summer Internship (2 per institute)
- 2011 Meritorious Winner of International Interdisciplinary Contest in Modeling (International)
- 2011 Third Prize of Scilab Contest (International)
- 2011 Gold Medal for ACM Competition (University-level)
- 2010 First Prize of National Mathematical Modeling Contest (National)
- 2010 & 2009 First Prize Scholarship (¥1000, for Top 5% student)
- 2008 Enterprise Scholarship (¥5000, for 5<sup>th</sup>/316 student)
  
- 2014 & 2010 Outstanding Student Leader (1 per institute)

## TEACHING ASSISTANT

---

- 2015 SPRING Speech Science, Technology and Innovative Applications  
Instructors: Prof. P.C. Ching, Prof. Tan Lee, Prof. Ken Ma, Prof. Helen Meng,  
and Prof. William S.-Y. Wang, all from the Chinese University of Hong Kong;  
Prof. Gerard de Melo, from Tsinghua University
- 2014 FALL Hot Topics in Computational Biology  
Instructor: Prof. Jianyang (Michael) Zeng