

# Yang Tang

Tel: +1 (347) 559-TANG Email: ty at cs.nyu.edu Website: ytang.com LinkedIn: linkedin.com/in/tangyang

## EDUCATION

- Ph.D., Computer Science, Columbia University** Aug 2011 – May 2020  
**Thesis:** Making data storage efficient in the era of cloud computing.  
Advised by Prof. Junfeng Yang. GPA 4.0/4.0.
- M.Phil., Computer Sci. & Eng., The Chinese University of Hong Kong** July 2009 – July 2011  
**Thesis:** FADE: secure overlay cloud storage with access control and file assured deletion.  
Advised by Prof. Patrick P. C. Lee and Prof. John C. S. Lui.  
Graduated with **Professor Charles K. Kao Student Creativity Award** and **Best TA Award**. GPA 3.89/4.0.
- B.Eng., Computer Sci. & Tech., Tsinghua University** Aug 2005 – July 2009  
**Outstanding Student of Beijing.** Graduated with **Excellent Graduation Award**. GPA 88.4/100 (top 15%).
- Exchange Student, The Chinese University of Hong Kong** Aug 2007 – Dec 2007  
GPA 3.82/4.0.

## WORK EXPERIENCE

- Clinical Assistant Professor of Computer Science, New York University, New York, NY Sep 2021 – Present  
Director of Education and Curriculum Development, LaiOffer.com Jan 2017 – May 2020  
Software Engineer in Test Intern, Google Inc., Kirkland, WA June 2013 – Aug 2013  
Software Engineering Intern, Google Inc., New York, NY June 2012 – Aug 2012

## TEACHING EXPERIENCE

- Clinical Assistant Professor of Computer Science, New York University**
- Undergraduate Courses**
- Operating Systems (CSCI-UA.202). Spring 2023
  - Operating Systems (CSCI-UA.202). Fall 2022
  - Introduction to Computer Science (CSCI-UA.101). Fall 2021
- Graduate Courses**
- Operating Systems (CSCI-GA.2250). Spring 2023
  - Realtime and Big Data Analytics (CSCI-GA.2436). Spring 2023
  - Realtime and Big Data Analytics (CSCI-GA.2436). Fall 2022
  - Big Data Application Development (CSCI-GA.2437). Fall 2022
  - Realtime and Big Data Analytics (CSCI-GA.2436). Spring 2022
  - Big Data Application Development (CSCI-GA.2437). Spring 2022
  - Operating Systems (CSCI-GA.2250). Fall 2021
  - Realtime and Big Data Analytics (CSCI-GA.2436). Fall 2021
- Summer Programs**
- Pathways to AI. Summer 2022
- Director of Education and Curriculum Development, LaiOffer.com** Jan 2017 – May 2020  
Delivered 1000+ hours of lectures to 6000+ students at all levels, with class sizes ranging from 20 to 300.  
Course highlights: data structures and algorithms, Python programming, Java programming, cloud computing.
- Teaching Assistant, Columbia University**
- Operating Systems I (W4118). Fall 2016
  - Operating Systems I (W4118). Summer 2015
  - Operating Systems I (W4118). Fall 2013
- Teaching Assistant (Best TA awardee), The Chinese University of Hong Kong**
- Advanced Topics in Internet Technology (CMSC5709). Spring 2011
  - Distributed Systems and Networks (CENG4430). Spring 2011
  - Computer and Network Security (CSCI5470). Fall 2010
  - Data Communication and Computer Networks (CSCI4430). Spring 2010
  - Distributed Systems and Networks (CENG4430). Spring 2010

Introduction to Operating Systems (CSCI3150).  
Principles of System Software (CENG3150).

Fall 2009  
Fall 2009

## PUBLICATIONS

**Yang Tang** and Junfeng Yang.

**“Lambdata: Optimizing Serverless Computing by Making Data Intents Explicit.”**

🏆 **IEEE TCSVC Young Experts in Services Computing (YESC) Student Paper Award.**

IEEE CLOUD 2020, October 2020.

(AR: 53/256 = 20.7%)

**Yang Tang**, Gang Hu, Xinhao Yuan, Lingmei Weng, and Junfeng Yang.

**“Grandet: A Unified, Economical Object Store for Web Applications.”**

ACM SoCC 2016, Santa Clara, CA, October 2016.

(AR: 38/151 = 25.2%)

**Yang Tang** and Junfeng Yang.

**“Secure Deduplication of General Computations.”**

USENIX ATC 2015, Santa Clara, CA, July 2015.

(AR: 47/221 = 21.3%)

Gang Hu, Xinhao Yuan, **Yang Tang**, and Junfeng Yang.

**“Efficiently, Effectively Detecting Mobile App Bugs with AppDoctor.”**

EuroSys 2014, Amsterdam, the Netherlands, April 2014.

(AR: 27/147 = 18.4%)

Junfeng Yang, Heming Cui, Jingyue Wu, **Yang Tang**, and Gang Hu.

**“Making Parallel Programs Reliable with Stable Multithreading.”**

Communications of the ACM (CACM), 57(3), pp. 58–69, March 2014.

Henry C. H. Chen, Yuchong Hu, Patrick P. C. Lee, and **Yang Tang**.

**“NCcloud: A Network-Coding-Based Storage System in a Cloud-of-Clouds.”**

IEEE Transactions on Computers (TC), 63(1), pp. 31–44, January 2014.

Jingyue Wu, Gang Hu, **Yang Tang**, and Junfeng Yang.

**“Effective Dynamic Detection of Alias Analysis Errors.”**

ESEC-FSE 2013, Saint Petersburg, Russia, August 2013.

(AR: 51/251 = 20.3%)

**Yang Tang**, Patrick P. C. Lee, John C. S. Lui, and Radia Perlman.

**“Secure Overlay Cloud Storage with Access Control and Assured Deletion.”**

IEEE Transactions on Dependable and Secure Computing (TDSC), 9(6), pp. 903–916, November 2012.

**Yang Tang**, Phillip Ames, Sravan Bhamidipati, Ashish Bijlani, Roxana Geambasu, and Nikhil Sarda.

**“CleanOS: Limiting Mobile Data Exposure with Idle Eviction.”**

OSDI 2012, Hollywood, CA, October 2012.

(AR: 25/215 = 11.6%)

Jingyue Wu, **Yang Tang**, Gang Hu, Heming Cui, and Junfeng Yang.

**“Sound and Precise Analysis of Parallel Programs through Schedule Specialization.”**

PLDI 2012, Beijing, China, June 2012.

(AR: 48/255 = 18.8%)

Yuchong Hu, Henry C. H. Chen, Patrick P. C. Lee, and **Yang Tang**.

**“NCcloud: Applying Network Coding for the Storage Repair in a Cloud-of-Clouds.”**

FAST 2012, San Jose, CA, February 2012.

(AR: 26/137 = 19.0%)

Arthur Rahumed, Henry C. H. Chen, **Yang Tang**, Patrick P. C. Lee, and John C. S. Lui.

**“A Secure Cloud Backup System with Assured Deletion and Version Control.”**

CloudSec (ICPP Workshop) 2011, Taipei, September 2011.

**Yang Tang**, Patrick P. C. Lee, John C. S. Lui, and Radia Perlman.

**“FADE: Secure Overlay Cloud Storage with File Assured Deletion.”**

SecureComm 2010, Singapore, September 2010.

(AR: 28/112 = 25.0%)

**SCHOLARSHIPS AND AWARDS**

IEEE TCSVC Young Experts in Services Computing (YESC) Student Paper Award	2020
Best TA Award	2011
Professor Charles K. Kao Student Creativity Award	2011
Postgraduate Studentship	2009 – 2011
Excellent Graduation Award	2009
Apple WWDC Student Scholarship	2009
Outstanding Student of Beijing	2009
Guanghua Scholarship	2008
Citigroup Scholarship for Finance and Information Technology	2007
Tsinghua Scholarship for Outstanding Merits	2006
Outstanding Student Leader of the Department of Computer Science and Technology	2006
Silver Medal, ACM International Collegiate Programming Contest (ICPC), Asia Regional (Chengdu Site)	2005
Wan Bangru Gold Scholarship	2005
Outstanding Student of Beijing (Only 13 students in Beijing got this award)	2005
Bronze Medal, The 21st National Olympiad in Informatics (NOI), China	2004