Yang Tang

Tel: +1 (212) 998-3095 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 Associate Professor of Computer Science, New York University, New York, NY Sep 2024 – Present
Clinical Assistant Professor of Computer Science, New York University, New York, NY Sep 2021 – Aug 2024
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 AT NEW YORK UNIVERSITY

Graduate Courses
Operating Systems (CSCI-GA.2250)
Taught in Fall 2021, Spring 2023, Spring 2024, Spring 2025, and Fall 2025.
Realtime and Big Data Analytics (CSCI-GA.2436)
Taught in Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024, Spring 2025, Fall 2025, and Spring 2026.
Big Data Application Development (CSCI-GA.2437)
Taught in Spring 2022, Fall 2022, Fall 2023, Spring 2024, Fall 2024, Spring 2025, Fall 2025, and Spring 2026.

Undergraduate Courses
Operating Systems (CSCI-UA.202)
Taught in Fall 2022, Spring 2023, Fall 2023, Fall 2024, and Spring 2026.
Introduction to Computer Science (CSCI-UA.101)
Taught in Fall 2021.

Summer Programs
Pathways to AI
Taught in Summer 2022, Summer 2023, and Summer 2024.

Community Services
ICPC Curriculum Committee. 2023 – Present
Coach of NYU's ICPC (International Collegiate Programming Contest) team. 2022 – Present

PAST TEACHING EXPERIENCE

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 2013, Summer 2015, Fall 2016

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 2010, Spring 2011
Computer and Network Security (CSCI5470).	Fall 2010
Data Communication and Computer Networks (CSCI4430).	Spring 2010
Introduction to Operating Systems (CSCI3150).	Fall 2009
Principles of System Software (CENG3150).	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

28th Place, ICPC North America Championship 2025, Orlando, FL	2025
Silver Medal, ICPC Greater New York Regional Contest 2024, New York, NY	2024
31st Place, ICPC North America Championship 2024, Orlando, FL	2024
Rank #36, the 47th ICPC World Finals 2023, Luxor, Egypt	2024
Silver Medal, ICPC Greater New York Regional Contest 2023, New York, NY	2023
18th Place, ICPC North America Championship 2023, Orlando, FL	2023
Silver Medal, ICPC Greater New York Regional Contest 2022, Fairfield, CT	2023
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