

Te-Yuan Huang

CONTACT INFORMATION

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Stanford University
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RESEARCH INTERESTS

Multimedia Networking, Wireless Networking, Network Traffic Measurement, Analysis and Modeling, Network Security, Peer-to-Peer Overlay Network

EDUCATION

Stanford University, CA, USA

Ph.D. Candidate, Computer Science, September, 2008 - Present
Adviser: Prof. Monica Lam
GPA:3.94/4.0

National Taiwan University, Taipei, Taiwan, R.O.C.

Master of Science, Electrical Engineering, June, 2008
Adviser: Prof. Polly Huang and Dr. Kuan-Ta Chen
GPA:4.0/4.0

National Chiao-Tung University, HsinChu, Taiwan, R.O.C.

Bachelor of Science, Computer Science, June, 2006
Adviser: Prof. John K. Zao
GPA:3.98/4.0

SELECTED PUBLICATIONS

PhoneNet: a Phone-to-Phone Network for Group Communication within an Administrative Domain

Te-Yuan Huang, Kok-KiongYap, Ben Dodson, Monica Lam, Nick McKeown
ACM MobiHeld 2010, in conjunction with SIGCOMM 2010, New Delhi, India

Towards Software Friendly Networks

Kok-KiongYap, Te-Yuan Huang, Ben Dodson, Monica Lam, Nick McKeown
ACM AP Sys 2010, in conjunction with SIGCOMM 2010, New Delhi, India

Can Skype be More Satisfying? A QoE-Centric Study of the FEC Mechanism in the Internet-Scale VoIP System

Te-Yuan Huang, Po-Jung Wang, Kuan-Ta Chen, Polly Huang
IEEE Network: Special Issue on Improving QoE for Network Services, March, 2010

Tuning the Redundancy Control Algorithm of Skype for User Satisfaction

Te-Yuan Huang, Kuan-Ta Chen, Polly Huang
IEEE INFOCOM 2009, Rio de Janeiro, Brazil

Lossless Handover with n-casting between WiFi-WiMAX on OpenRoads (Demo Honorable Mention)

Kok-Kiong Yap, Te-Yuan Huang, Masayoshi Kobayashi, Michael Chan, Rob Sherwood, Guru Parulkar and Nick McKeown
ACM MOBICOM 2009 (Demo Session), Beijing, China

OpenRoads: Empowering Research in Mobile Networks (Best Poster Award)

Kok-Kiong Yap, Masayoshi Kobayashi, Rob Sherwood, Nikhil Handigol, Te-Yuan Huang, Michael Chan, Nick McKeown
ACM SIGCOMM 2009 (Poster Session), Barcelona, Spain

Carving Research Slices Out of Your Production Networks with OpenFlow (Best Demo Award)

Rob Sherwood, Michael Chan, Glen Gibb, Nikhil Handigol, Te-Yuan Huang, Peyman Kazemian, Masayoshi Kobayashi, David Underhill, Kok-KiongYap, Guido Appenzeller, Nick McKeown
ACM SIGCOMM 2009 (Demo Session), Barcelona, Spain

A Measurement Study of Zigbee-based Indoor Localization Systems Under RF Interference

Seng-Yong Lau, Tsung-Han Lin, Te-Yuan Huang, I-Hei Ng, and Polly Huang
ACM WiNTECH 2009, in conjunction with MOBICOM 2009, Beijing, China, Sept. 2009

Towards User-Centric Rate Adaptations for VoIP Traffic

Te-Yuan Huang, Chih-Ming Chen, Kuan-Ta Chen, Polly Huang
ACM SIGCOMM 2007 (Poster Session), Kyoto, Japan

WORKING
EXPERIENCE

Research Intern *Jun. 2010 - Sep. 2010*

- Technicolor Paris Research Lab (mentor: Dr. Stratis Ioannidis and Dr. Christophe Diot)
- Building mobility model from Twitter geo-tagged traces

Full-Time Research Assistant *Jun. 2009 - Aug. 2009*

- National Taiwan University (employer: Prof. Polly Huang)
- Developed redundancy control algorithms for VoIP
 - Developed simulation modules in dummynet
 - Advise one master student

Part-Time Technical Support Staff *Aug. 2004 - Jun. 2006*

- National Chiao Tung University (employer: Computer Center of CS Department)
- Design and maintain the department web and database services
 - Web servers and PC room maintenance
 - Technical support for students

TEACHING
EXPERIENCE

Teaching Assistants

- Advanced Compiler Techniques (Graduate), Winter 2010, Stanford University
Network Simulation and Testing (Graduate), Spring 2008, National Taiwan University
Wireless Ad Hoc Networks (Graduate, 50% TA), Fall 2007, National Taiwan University
Wireless Sensor Networks (Graduate, 50% TA), Fall 2007, National Taiwan University
Probability and Statistics (Undergrad.), Spring 2007, National Taiwan University
Introduction to Computer Networks (Undergrad.), Fall 2006, National Taiwan University

HONORS AND
AWARDS

Research & Programming Contest Awards

Stanford Graduate Fellowship, 2008 - 2011

- Tuition waiver and monthly stipend for 12 quarters

ACM MobiCom Student Demo Competition, Honorable Mention, 2009

- Demo: Lossless Handover with n-casting between WiFi-WiMAX on OpenRoads

National Science Council Research Creativity Award, 2006

- Project: "Streaming Multicast Service over P2P Network"

7th place, ACM Asia Programming Contest - Kaohsiung, 2003

- Team up with Ya-Lin Huang and Jui-Nan Lin

Member, National International Olympiad in Informatics Training Camp, 1999

- Top 30 students annually selected nationwide

Academic Awards

Xing-Tian Gong Outstanding Graduate Student Long-Term Scholarship, 2007 - 2012

- Top 10 graduate students selected nationwide

Elite Scholarship presented by EE Dept., National Taiwan University, 2006, 2007

- Monthly stipend and TA position, yearly top 2 students

Zyxel, Chu Shuen-Yi Scholarship, 2005

- For top 1 student per department in NCTU

Pen Wen-Yuan Scholarship, 2004

- Cash prize for Top 10 students in EECS in Taiwan

National Chiao-Tung University Outstanding Freshman Enrollment Scholarship, 2002

- Four years tuition waiver for outstanding high school graduates

EXTRACURRICULAR
ACTIVITIES

Organizer, Programmable Open Mobile Internet (POMI) Seminar,

Stanford University, 2011 - Present

Financial Officer, Women in Computer Science (WISC),

Stanford University, 2009 - Present

COMPUTER SKILLS

- Statistical Packages: R, Minitab
- Languages: C++, Perl, Python, Java, C#, Unix shell scripts, PHP
- Operating Systems: FreeBSD, Unix/Linux, Windows, Mac OSX
- Tools: NS-2, MATLAB, L^AT_EX

LANGUAGE

- Chinese (Native Speaker)
- English (Fluent)
- French (Fair)