

Te-Yuan Huang

CONTACT INFORMATION

Department of Computer Science
Stanford University
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RESEARCH INTERESTS

Multimedia Networking, Mobile Networking, Software Define Networking,
Network Traffic Measurement, Analysis and Modeling

EDUCATION

Stanford University, CA, USA
Ph.D. Candidate, Computer Science, September, 2008 - 2014
Adviser: Prof. Nick McKeown
GPA:4.0/4.0

National Taiwan University, Taipei, Taiwan
Master of Science, Electrical Engineering, June, 2008
Adviser: Prof. Polly Huang
GPA:4.0/4.0

National Chiao-Tung University, HsinChu, Taiwan
Bachelor of Science, Computer Science, June, 2006
GPA:3.98/4.0

SELECTED PUBLICATIONS

Downton Abbey Without the Hiccups: Buffer-Based Rate Adaptation for HTTP Video Streaming
T.-Y. Huang, R. Johari, N. McKeown
ACM SIGCOMM Workshop on Future Human-Centric Multimedia Networking (FhMN), 2013

Confused, Timid, and Unstable: Picking a Video Streaming Rate is Hard
T.-Y. Huang, N. Handigol, B. Heller, N. McKeown, R. Johari
ACM Internet Measurement Conference (IMC), 2012
IRTF Applied Networking Research Prize, 2013

Scheduling Packets over Multiple Interfaces while Respecting User Preferences
K.-K. Yap, T.-Y. Huang, Y. Yiakoumis, S. Chinchali, S. Katti, N. McKeown
ACM Conference on emerging Networking EXperiments and Technologies (CoNEXT), 2013

Putting Home Users in Charge of their Network
Y. Yiakoumis, T.-Y. Huang, K.-K. Yap, S. Katti, R. Johari, N. McKeown
ACM Ubicomp Workshop on Systems and Infrastructure for the Digital Home (HomeSys), 2012

Making Use of All the Networks Around Us: A Case Study in Android
K.-K. Yap, T.-Y. Huang, Y. Yiakoumis, M. Kobayashi, S. Katti, G. Parulkar, N. McKeown
ACM SIGCOMM Workshop on Cellular Networks: Operations, 2012
Best Paper, Fast-tracked to ACM SIGCOMM CCR

Can Skype be More Satisfying? A QoE-Centric Study of the FEC Mechanism in the Internet-Scale VoIP System
T.-Y. Huang, P. Huang, K.-T. Chen, P.-J. Wang
IEEE Network: Special Issue on Improving QoE for Network Services, 2010

Lossless Handover with n-casting between WiFi-WiMAX on OpenRoads
K.-K. Yap, T.-Y. Huang, M. Kobayashi, M. Chan, R. Sherwood, G. Parulkar and N. McKeown
ACM Conference on Mobile Computing and Networking (MOBICOM) (Demo Session), 2009
Honorable Mention, Student Research Competition at Mobicom

Tuning the Redundancy Control Algorithm of Skype for User Satisfaction
T.-Y. Huang, K.-T. Chen, P. Huang
IEEE Conference on Computer Communications (INFOCOM), 2009, Rio de Janeiro, Brazil

WORKING
EXPERIENCE

Consultant for Streaming Algorithm *Oct. 2013 - Present*
Netflix (Manager: Matt Trunnell)
Software Engineer Intern *Apr. 2013 - Oct. 2013*
Netflix (Manager: Matt Trunnell)
Research Intern *Jun. 2010 - Sep. 2010*
Technicolor Paris Research Lab (Mentors: Dr. Stratis Ioannidis and Dr. Christophe Diot)
Full-Time Research Assistant *Jun. 2009 - Aug. 2009*
National Taiwan University (Employer: Prof. Polly Huang)
Part-Time Technical Support Staff *Aug. 2004 - Jun. 2006*
National Chiao Tung University (Employer: Computer Center of CS Department)

TEACHING
EXPERIENCE

Teaching Assistants
Introduction to Computer Networks (Open to Public), Fall 2012, Stanford University
Database System Principles (Graduate), Winter 2010, Stanford University
Advanced Compiler Techniques (Graduate), Winter 2009, 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

NANOG 59 Abha Ahuja Fellowship, 2013
IRTF Applied Networking Research Prize, 2013
Google Fellowship, 2012 - 2014
Hackathon Winner, Netflix Spring Hackday, 2013
Hackathon Winner, the Cable Show Imagine App Challenge, 2012
Stanford Graduate Fellowship, 2008 - 2012
Taiwan Xing-Tian Gong Fellowship, 2007 - 2013
National Taiwan University Teaching Fellowship, 2008 - 2010
Garmin Scholarship, 2007
Taiwan National Science Council Research Creativity Award, 2006
Zyxel Scholarship, 2005
National Chiao-Tung University Undergraduate Fellowship, 2002-2006

EXTRACURRICULAR
ACTIVITIES

Member, PhD Admission Committee,
Computer Science Department, Stanford University, 2013-14
Co-Chair, First Berkeley-Stanford Women in Computer Science and Electrical Engineering Research Meet-up,
UC Berkeley & Stanford University, 2013
Financial Officer, Women in Computer Science (WISC),
Stanford University, 2009 - 2012

LANGUAGE

- Chinese (Native Speaker)
- English (Fluent)
- French (Elementary Proficiency)
- Spanish (Elementary Proficiency)

PROUDLY FINISHED

- Big Basin Marathon (2013), San Francisco Marathon (2012)
- Mauna Loa Trail, Hawaii, USA (2013), Inca Trail, Peru (2011)