

SHIH-HAO TSENG

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U.S.A.

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EDUCATION

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- Cornell University (CU)**, Ithaca, NY, U.S.A. Aug. 2013 - Present
PhD student (Advisor: Dr. Kevin Tang, major in Electrical and Computer Engineering)
- Relevant Coursework:
Practicum in Operating Systems, Approximation Algorithm, Convex Analysis, Functional Analysis, Statistical Inference and Decision, Stochastic Systems: Estimation and Control.
- National Taiwan University (NTU)**, Taipei, Taiwan Sep. 2008 - June 2012
Bachelor of Science in Engineering (minor in Economics)
- GPA: 92.20/100.00; ranking 2nd in a class of 226
 - Relevant Coursework:
Algorithm, Data Structure and Programming, Rf Microwave Wireless Systems, Signals and Systems, Advanced Calculus, Macroeconomics, Microeconomics, Probability and Statistics, Quantum Physics.

RESEARCH INTERESTS

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- Software-Defined Networking**
- Centralized control, congestion-free routing and high-frequency network updating.
- Communication System**
- Network dynamic model, optimization theory and algorithm.

PUBLICATIONS

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- S.-H. Tseng**, C. L. Lim, N. Wu, and A. Tang.
“Time-Aware Congestion-Free Routing Reconfiguration,” in *Proceedings of IFIP Networking*, 2016.
- A. Gushchin, **S.-H. Tseng**, and A. Tang.
“Optimization-Based Network Flow Deadline Scheduling,” in *Proceedings of IEEE ICNP*, 2016.
- S.-H. Tseng**, E. Bitar, and A. Tang.
“Random Convex Approximations of Ambiguous Chance Constrained Programs,” in *Proceedings of IEEE CDC*, 2016.

HONORS AND AWARDS

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- Jacobs Fellowship (CU)** 2014
- Studying Abroad Scholarship (Ministry of Education, Taiwan(R.O.C.))** 2013
- Honorary Member of the Phi Tau Phi Scholastic Honor Society** 2012
- Presented to seniors from each college in Taiwan ranking within top 1% of their department.
- President’s Awards (NTU)** 2009, 2010, 2011, 2012
- Four-time recipient; awarded to students ranking within top 5% of their department.
- Outstanding Project Award** 2011
- Awarded to the top 10 teams of Cross-Strait Finals of 2011 Innovate Asia Competition (FPGA design).

SKILLS

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- Programming Languages:** Proficient in C++, Python and Verilog; working knowledge of ActionScript, C, Basic, HTML, Java, JavaScript, MySQL, and PHP.
- Simulation Tools:** Proficient in PSpice, MATLAB, and NS-3.
- Languages:** Fluent in English; native in Mandarin Chinese and Taiwanese Hokkien; basic understanding of French, German, Spanish, and Japanese.

EXPERIENCE

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- Cornell University**, Ithaca, NY Aug. 2014 - Present
Graduate Research Assistant/Teaching Assistant
- Developed a virtual SDN test framework to verify congestion-free updating properties.
 - Helped teach Introduction to Probability and Inference for Random Signals and Systems.
- AT&T**, Middletown, NJ June 2016 - Aug. 2016
Student Intern - Technical II
- Developed models and designed algorithms for hybrid software-defined networks.