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Research Interest	Information Theory, Optimization, Machine learning and Signal Processing, Communications
Education	<p>Stanford University Ph.D. in Electrical Engineering, January 2012 Thesis topic: Multi-terminal Secrecy and Source Coding GPA: 4.0/4.0 Advisers: Profs. Abbas El Gamal and Tsachy Weissman Thesis Committee: Profs. Thomas Cover and Ada Poon</p> <p>Stanford University M.S. in Electrical Engineering, January 2012, GPA: 4.0/4.0</p> <p>Imperial College, London M.Eng. (First Class Honours) in Electrical Engineering June 2001 Thesis topic: Lyapunov methods for adaptive gain control</p>
Professional Experience	<p>Scientist, Modulation and Coding Department, Institute for Infocomm Research, Singapore Feb 2012 - Current</p> <p>Research Assistant, El Gamal Group, September 2006 - December 2011</p> <p>Visiting Research student, Prof. Zhang Lin's group, Tsinghua University, China March 2010 - May 2010. Worked with Prof. Zhang Lin and students on Throughout and Delay scaling in wireless mobile networks</p> <p>Summer Intern, Ji Research Group, June 2007- September 2007. Worked with Profs. Hanlee Ji and Tsachy Weissman on signal processing for shotgun DNA sequencing</p> <p>Research Attachment Internship at Institute for Infocomm Research, Singapore August 2005 - August 2006. Worked with Dr Abdul Rahim Leyman on signal processing for localization</p> <p>Strategic Planning Executive, Ministry of Home Affairs, Singapore April 2003 - July 2005. Worked on manpower, budget, coordination and planning policies for the Ministry</p> <p>Summer internship at Center for Imaging, Remote Sensing and Processing (CRISP) July 2000 - September 2000. Worked on image processing algorithms for satellite images</p>
Awards and Honors	<p>Stanford Graduate Fellowship, 2009 - 2011</p> <p>Singapore Agency for Science, Technology and Research (A*STAR) National Science Scholarship, 2006-2011</p> <p>IEE prize for distinction (top performing student) in the four years degree course at Department of Electrical and Electronics Engineering, Imperial College. June 2001</p>

Singapore Public Service Commission scholarship for undergraduate studies at Imperial College, 1997-2001

Skills	<p>Masters and PhD level courses taken at Stanford University:</p> <ul style="list-style-type: none">• Information Theory and Probability Theory• Machine Learning and Signal Processing• Mathematical Optimization and Discrete Algorithms• Control Theory, Linear Dynamical Systems and Stochastic Systems• Game Theory and Economics <p>Programming skills and experience: Proficient in C, C++, Python, Matlab, R</p>
Teaching Experience	<p>Teaching Assistant, EE278A: Introduction to Statistical Signal Processing Taught by Prof. Tsachy Weissman, Fall 2012.</p> <p>Teaching Assistant for short course in Network Information Theory taught at Tshinghua University, China Taught by Prof. Abbas El Gamal, March 2010-April 2010.</p>
Publications	<p>A full list of publications can be obtained from the following website: http://www1.i2r.a-star.edu.sg/~chiayk/publications.html</p>
Professional Activities	<p>Reviewer for the following journals and conferences</p> <ul style="list-style-type: none">• IEEE Transactions on Information Theory• IEEE Symposium on Information Theory 2009-2013• IEEE Transactions on Communications• IEEE Transactions on Wireless Communications• IEEE Transactions on Information Security and Forensics <p>Member, IEEE and IEEE ComSoc</p>
Community Service	<p>Military Service in the Singapore Army 2001 - 2003</p> <ul style="list-style-type: none">• Served as a tank commander in Singapore Army Combat Engineers• Served as a special projects clerk in the Operations Research Department of the Singapore Army
References	<p>Available on request</p>