

# Jingyi Kenneth Tay

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Homepage: <http://kjytay.github.io/index.html>

## Education

Ph.D. Candidate in Statistics, Stanford University (Fall 2016).

2010 Princeton University, Princeton, NJ  
A.B. in Mathematics, Summa Cum Laude (2010). Certificates in Program of Applied & Computational Mathematics (2010), Program of Finance (2010).  
Election to Sigma Xi Honor Society (2010). Early Induction to Phi Beta Kappa Honor Society (top 1% of cohort) (2009). Shapiro Prize for Academic Excellence (2007, 2008).

2005 Anglo-Chinese Junior College, Singapore  
GCE 'A' Levels: 4 As, 2 Special Paper Distinctions (2005).

## Research Experience

2010 Senior Thesis: "Maximizing Expected Logarithmic Utility in a Regime-Switching Model with Inside Information"  
Advisor: Prof Ramon van Handel

2009 Junior Independent Work: "Construction of Space-Time Block Codes from a Decoding Point of View"  
Advisor: Prof Robert Calderbank

## Teaching Experience

09/2008 – 01/2010 Grader, Mathematics Department, Princeton University.  
• Graded weekly problem sets for classes on single- & multi-variable calculus, linear algebra.

## Work Experience

10/2015 – Present Consultant (Data Science Division), Infocomm Development Authority of Singapore.  
• Work with a wide array of government agencies to analyse their data to support evidence-based public policy decision-making.

04/2014 – 03/2015 Staff Well-Being Committee Chair, Ministry of the Environment & Water Resources, Singapore.

- Led team in conceptualizing and executing activities to improve staff welfare and morale.
  - Managed and accounted for budget for staff welfare.
- 09/2013 – 09/2015     Assistant Director (Environmental Policy Division), Ministry of the Environment & Water Resources, Singapore.
- Drove progressive policies to ensure sustainability and efficiency of Singapore's waste management system.
  - Facilitated Ministry's strategic planning by conceptualizing and organizing Policy Wing retreat.
  - Member of project team evaluating the usefulness of movement data for predicting the spread of *Chikungunya* virus in Singapore.
- 04/2012 – 08/2013     InfoComm Technologies Engineer, Ministry of Defense, Singapore.
- Assisted in performance review of operations.
  - Recommended and instituted a new reporting dashboard for management to view effectiveness of operations.
  - Crafted and delivered presentation on system to in-house users to encourage user adoption.

## Awards and Honors

- 2007                      Second Prize, International Mathematics Competition.
- 2006, 2008             Honorable Mention, William Lowell Putnam Competition.
- 2006-2010             Public Service Commission Overseas Merit Scholarship (Open) (full-ride college scholarship), Public Service Commission, Singapore.
- 2006                      Lee Kuan Yew Award for Mathematics & Science, Ministry of Education, Singapore.
- 2005                      Gold Award (top score), Asian-Pacific Mathematical Olympiad.
- 2004, 2005             Silver Medal, International Mathematical Olympiad.
- 2003                      Honorable Mention, International Mathematical Olympiad.