

# Jingyi Kenneth Tay

## Curriculum Vitae

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### Education

- Fall 2016 **Ph.D. Candidate in Statistics**, *Stanford University*, Stanford, CA.
- 2010 **A.B. in Mathematics**, *Princeton University*, Princeton, NJ.  
Summa Cum Laude. Certificates in Program of Applied & Computational Mathematics,  
Program of Finance.
- 2005 **GCE 'A' Levels**, *Anglo-Chinese Junior College*, Singapore, 4 As, 2 Special Paper  
Distinctions.

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

### Work Experience

- 10/2015– **Consultant (Data Science Division)**, *Infocomm Development Authority of Singapore*, Singapore.
- 08/2016
- Led engagements with a wide array of government agencies to analyze their data in support of data-driven public policy. Responsibilities included project scoping, data cleaning, visualisation, statistical analysis and presentation of findings & recommendations.
  - Developed and tested overarching recruitment framework and materials for all roles in the division.
  - Conceptualized division's operating policy for data management and statistical disclosure control.
- 04/2014– **Staff Well-Being Committee Chair**, *Ministry of the Environment & Water Resources*, Singapore.
- 03/2015
- Led team of 10 officers in conceptualizing and executing activities to improve staff welfare and morale.
  - Managed and accounted for budget for staff welfare.

- 09/2013– **Assistant Director (Environmental Policy Division)**, *Ministry of the Environment & Water Resources*, Singapore.
- 09/2015
    - 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– **InfoComm Technologies Engineer**, *Ministry of Defense*, Singapore.
- 08/2013
  - 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.

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## Awards and Honors

- 2010 Election to Sigma Xi Honor Society.
- 2009 Early Induction to Phi Beta Kappa Honor Society (top 1% of cohort).
- 2007, 2008 Shapiro Prize for Academic Excellence, Princeton University.
- 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.