

# Jingyi Kenneth Tay

## Curriculum Vitae

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📄 [kjytay.github.io/](https://kjytay.github.io/)

in [kjytay](#)

🌐 [kjytay](#)

## 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 Decod-  
ing Point of View*.  
Advisor: Prof Robert Calderbank

## Teaching Experience

- 09/2016– **Teaching Assistant**, *Department of Statistics, Stanford University*, Stanford, CA.  
Present Only 2nd-year student selected to develop material and teach new "Introduction to R"  
course for undergraduates.
- 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 Sin-  
08/2016 gapore*, Singapore.
- Led engagements with a wide array of government agencies to analyze their data in  
support of public policymaking. Responsibilities included project scoping, data cleaning,  
visualization, statistical analysis and presentation of results.
  - Systematized and tested recruitment framework and materials for all roles in the division,  
including data scientist, quantitative strategist and front-end developer.
  - Developed 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.
    - Evaluated usefulness of movement data in predicting spread of *Chikungunya* virus in Singapore.
- 04/2012– **InfoComm Technologies Engineer**, *Ministry of Defense*, Singapore.
- 08/2013
    - Evaluated operational performance of critical communications systems.
    - Made operational effectiveness more transparent by developing and implementing a new reporting dashboard for senior management.
    - Strengthened in-house user adoption of systems through crafting and delivering technical presentations.

## Awards and Honors

- 2017 Two Sigma Graduate Fellowship in Statistics.
- 2017 Departmental Teaching Assistant Award.
- 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.