

# Jingyi Kenneth Tay

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## EDUCATION

### STANFORD UNIVERSITY | PH.D. IN STATISTICS

Expected Jun 2021 | Stanford, CA

### PRINCETON UNIVERSITY | A.B. IN MATHEMATICS

Jun 2010 | Princeton, NJ

Summa Cum Laude • Certificates in Program of Applied & Computational Mathematics, Program of Finance

Senior Thesis: Maximizing expected logarithmic utility in a regime-switching model with inside information. Advisor: Ramon van Handel.

Junior Independent Work: Construction of space-time block codes from a decoding point of view. Advisor: Robert Calderbank.

## WORK EXPERIENCE

### STANFORD UNIVERSITY | INSTRUCTOR & TEACHING ASSISTANT

Sep 2016 – Present | Stanford, CA

- Only 2nd-year student selected to develop material and teach new “Introduction to R” course for undergraduates. 94% of students described instruction of the course as “Excellent” or “Good”.

### INFOCOMM DEVELOPMENT AUTHORITY | DATA SCIENTIST (DATA SCIENCE DIVISION)

Oct 2015 – Aug 2016 | Singapore

- Spearheaded engagements with a wide array of government agencies (economic, transport, social) to analyze their data to support 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.

### MINISTRY OF THE ENVIRONMENT & WATER RESOURCES | ASSISTANT DIRECTOR (ENVIRONMENTAL POLICY DIVISION)

Sep 2013 – Sep 2015 | 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.
- Evaluated usefulness of movement data in predicting spread of Chikungunya virus in Singapore.
- Chairman of Staff Well-Being Committee (Apr 2014 - Mar 2015): Led team of 10 officers in conceptualizing and executing activities to improve staff welfare and morale. Also managed and accounted for budget (20K+) for staff welfare.

### MINISTRY OF DEFENSE | INFOCOMM TECHNOLOGIES ENGINEER

Apr 2012 - Aug 2013 | Singapore

- Evaluated operational performance of critical intelligence systems.
- Made performance 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 & HONORS

- Two Sigma Graduate Fellowship in Statistics (2017)
- Departmental Teaching Assistant Award (2017)
- Early Induction to Phi Beta Kappa (top 1% of cohort) (2009)
- Shapiro Prize for Academic Excellence, Princeton University (2007, 2008)
- Honorable Mention, William Lowell Putnam Competition (2006, 2008)
- Public Service Commission Overseas Merit Scholarship (Open) (full-ride college scholarship) (2006-2010)
- Silver Medal, International Mathematical Olympiad (2004, 2005)

## COMPUTER SKILLS

Proficient in:

Python, R,  $\text{\LaTeX}$

Familiar with:

C, Java, Javascript, MySQL, Tableau