

# Hao Yang Teng

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## EDUCATION

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University of Wisconsin-Madison 2015-2020  
Ph.D. Candidate in Statistics  
Advisor: Prof. Zhengjun Zhang

University of Texas at El Paso 2015  
Master of Science in Statistics  
Advisor: Prof. Naijun Sha

University of Melbourne 2012  
Bachelor of Commerce (Actuarial Science)

## RESEARCH INTERESTS

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High-dimensional inferences, classifications, change-point analysis, extreme value theory.

## PUBLICATIONS

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- **Hao Yang Teng** and Zhengjun Zhang., “Regression Models with Two-way Truncated Predictors”, submitted.
- Carl J. Watras, **Hao Yang Teng**, Michael W. Meyer, Alexander W. Latzka and Zhengjun Zhang, “Near-decadal oscillation of water levels and mercury bioaccumulation in the Laurentian Great Lakes region”, accepted by Environmental Science & Technology Letters.
- Jacob D. Meyer, Elisa R. Torres, Maggie L. Grabow, Aleksandra E. Zgierska, **Hao Yang Teng**, Christopher L. Coe and Bruce P. Barrett (2018), “Benefits of 8-Week MBSR or Aerobic Training on Seasonal Declines in Physical Activity”, Medicine and Science in Sports and Exercise, 50(9).
- Naijun Sha and **Hao Yang Teng** (2017), “A Bayes Inference for Step-Stress Accelerated Life Testing”, International Journal of Statistics and Probability, 6(6).

## TEACHING EXPERIENCE

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Department of Statistics, University of Wisconsin-Madison August 2015-Present

Instructor/Lecturer (SA) January 2017-Present

- Lecturing statistics courses (STAT 371/324) for a class of about 130 students.
- Responsibilities include preparing lecture notes, discussion handouts, homework and exam questions, assigning final letter grades, holding consultation hours, managing 4-5 teaching assistants to run the course per semester.
- Lecture topics include probability, random variables/distributions (continuous/discrete), estimation (Mean Squared Error), one-population hypothesis tests (Z-test, T-test, bootstrap, permutation, Wilcoxon rank sum test, proportion, sign test), two-population hypothesis tests (two sample T-test, Welch T-test, bootstrap, proportion, sign test), ANOVA and regression.

- The courses are conducted with the assistance of R programming language.
- Highest overall rating: 4.27/5.

Teaching Assistant August 2015- December 2016

- STAT 324: Introductory Applied Statistics for Engineers
- STAT 371: Introductory Applied Statistics for the Life Sciences

**University of Texas at El-Paso** August 2013-May 2015

Math Instructor July 2014-August 2014

- Taught pre-calculus, algebra, geometry, statistics classes in the Enhanced New Student Orientation (ENSO) program for incoming freshmen.

## **EMPLOYMENT HISTORY**

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The Center for Institutional Evaluation, Research and Planning at UTEP June-August 2014

- Performed binary classifications using penalized logistic regression, k-means clustering to study the behaviors of UTEP students using certain facilities and services to help in fund allocation decision making process.

Prudential Assurance Malaysia Berhad (Actuarial Executive) March-June 2013

- Responsible for experience studies of life insurance policies, monitored and modeled withdrawal rates of unit-trust funds using regression-based methods, wrote programming codes to perform statistical inference via VBA, data mining of policy holders to match records and amount insured monthly and prepared monthly and quarterly on experience study and Actuarial Financial Report, in charge of ad-hoc work.

## **SELECTED AWARDS**

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- 2nd prize in Poster Presentation of 2015 Conference of Texas Statisticians (COTS).
- Best student of Master of Science in Statistics.
- Dean's Honors List in Bachelor of Commerce.

## **SOFTWARE**

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- R, Python, Matlab, SQL, SAS, Excel Visual Basic Application (VBA).

## **LANGUAGES**

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- English, Mandarin, Bahasa Melayu, Mandarin (Cantonese).