

# Tong Wang

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## Education

**Ph.D. in Statistics (2<sup>nd</sup> year)**

*expected May 2022*

Department of Statistical Sciences, Fox School of Business, Temple University, Philadelphia, USA

**M.S. in Bioinformatics**

**2017**

Department of Informatics and Data Science, School of Mathematical Sciences, Nankai University, China

**B.S. in Statistics**

**2014**

Department of Statistics, School of Mathematical Sciences, Sichuan University, China

## Research Interests

Machine Learning, Statistical Modeling, Multiple Testing, Statistical Computing

## Publications

- **Tong Wang**, Wei Zheng, Qiqige Wuyun, Zhenfeng Wu, Jishou Ruan, Gang Hu and Jianzhao Gao. PrAS: Prediction of protein amidation sites using multiple feature extraction. *Computational Biology and Chemistry*. 2017(66) 57-62. <http://dx.doi.org/10.1016/j.compbiolchem.2016.11.004>
- **Tong Wang**, Dacheng Ma, Peng Tong. Prediction model for water needs and supply and identification of corresponding water strategy of China in 2025. *China Science and Technology Review*. 2013(36) 210-212.
- Yang Shi, **Tong Wang**, Youle Wang. Survey on happiness of southwest college students based on principal component analysis. *The Guide of Science & Education*. 2013 (19) 251-252. DOI:10.3969/j.issn.1674-6813.2013.19.135

## Software

- **PrAS** (free download from <https://sourceforge.net/p/pras/pkg>)  
It was developed to predict amidation sites, based on SVM classifier. It can obtain publically available datasets from web text mining based on XML. In the software, the relevant biochemical features are encoded using Python and the prediction models are built in R.
- **Strategy Decision GUI**  
This GUI was designed specifically for the use of China Navy. It mainly provides convenience for commanders when they make decisions in the military scenarios.

## Awards and Honors

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|--|-------------|
| Temple University Presidential Fellowship, USA           | <b>2017</b> |
| National Award for Graduates (0.2%), China               | <b>2016</b> |
| Excellent First-Year Graduate Student Scholarship, China | <b>2014</b> |
| Honorable Mention, Mathematical Contest in Modeling, USA | <b>2013</b> |

## **Visiting Experiences**

- Department of Statistics, **The Chinese University of Hong Kong** **Jul, 2016**
- Department of Mathematics, **Hong Kong University of Science and Technology** **Jul, 2013**

## **Employment**

**Research Assistant**, Department of Informatics and Data Science, **Nankai University** **2014 – 2017**

- Developed a software called PrAS for the prediction of protein amidation sites based on SVM
- Mathematical Modeling for China Navy Military (CSSC Systems Engineering Research Institute)

**Summer Intern, United Nations (UN), Beijing** **Jun – Oct, 2015**

- Analyzed UN population data and prepared presentations

**Quant Investment Intern, Huaxi Futures Co. Ltd** **Oct – Dec, 2013**

- Developed trading strategies using technical analysis and fundamental analysis based on Matlab
- Proficiency in using TradeBlazer\* to implement, backtest and optimise strategies

\*TradeBlazer is a fixed income trading, settlement and clearance system for financial institutions. See:  
<http://tradeblazer.com>

## **Computer skills**

- Statistical Softwares: SAS, R, SPSS, Eviews
- Programming Languages: Python, Matlab
- Design: GUI design, Adobe Illustrator, Adobe Photoshop
- Others: Linux command, Web Crawler