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# **Statistics Python Library API**

***Release 1.00***

**Wenqiang Feng**

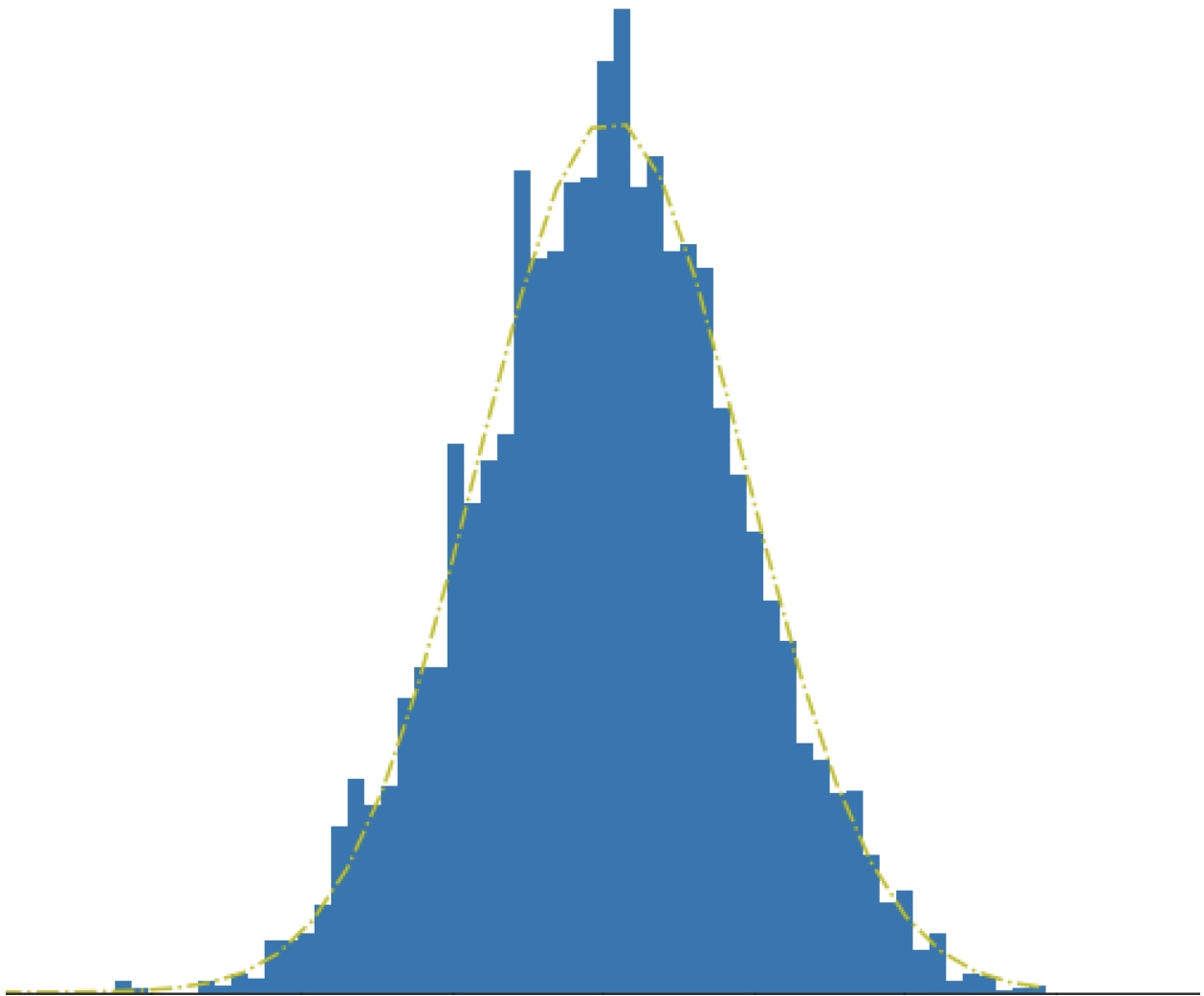
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Welcome to my **Statistics Python Library API**! The PDF version can be downloaded from [HERE](#).



## PREFACE

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### Chinese proverb

Good tools are prerequisite to the successful execution of a job. – old Chinese proverb

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## 1.1 About

### 1.1.1 About this API

This document is the API for my Statistics Python Library [[statspy](#)] API. The PDF version can be downloaded from [HERE](#). **You may download and distribute it. Please be aware, however, that the note contains typos as well as inaccurate or incorrect description.**

In this repository, I try to use the detailed demo code and examples to show how to use Sphinx to generate the `.html` and `.pdf` documents and how to hookup them automatically on Github. If you find your work wasn't cited in this note, please feel free to let me know.

Although I am by no means a python programming and Sphinx expert, I decided that it would be useful for me to share what I learned about Sphinx in the form of easy tutorials with detailed example. I hope those tutorials will be a valuable tool for your studies.

The tutorials assume that the reader has a preliminary knowledge of python programing, LaTeX and Linux. And this document is generated automatically by using [sphinx](#).

### 1.1.2 About the author

- **Wenqiang Feng**
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- **Biography**

Wenqiang Feng is Data Scientist within DST's Applied Analytics Group. Dr. Feng's responsibilities include providing DST clients with access to cutting-edge skills and technologies, including Big Data analytic solutions, advanced analytic and data enhancement techniques and modeling.

Dr. Feng has deep analytic expertise in data mining, analytic systems, machine learning algorithms, business intelligence, and applying Big Data tools to strategically solve industry problems in a cross-functional business. Before joining DST, Dr. Feng was an IMA Data Science Fellow at The Institute for Mathematics and its Applications (IMA) at the University of Minnesota. While there, he helped startup companies make marketing decisions based on deep predictive analytics.

Dr. Feng graduated from University of Tennessee, Knoxville, with Ph.D. in Computational Mathematics and Master's degree in Statistics. He also holds Master's degree in Computational Mathematics from Missouri University of Science and Technology (MST) and Master's degree in Applied Mathematics from the University of Science and Technology of China (USTC).

- **Declaration**

The work of Wenqiang Feng was supported by the IMA, while working at IMA. However, any opinion, finding, and conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of the IMA, UTK and DST.

## 1.2 Feedback and suggestions

Your comments and suggestions are highly appreciated. I am more than happy to receive corrections, suggestions or feedbacks through email (Wenqiang Feng: [von198@gmail.com](mailto:von198@gmail.com)) for improvements.



## HOW TO INSTALL

### 2.1 Clone the Repository

```
git clone git@github.com:runawayhorse001/statspy.git
```

### 2.2 Install

```
cd statspy  
pip install -r requirements.txt  
python setup.py install
```

### 2.3 Uninstall

```
pip uninstall statspy
```

### 2.4 Test

```
cd statspy/test  
python test1.py
```

Results:

```
[-0.7985165  -0.33687786  1.85808405 -1.05770596 -0.60614307  0.  
↪72978979  
 0.86686617  1.21733246 -1.15885016  0.90996324]
```



## STATISTICS PYTHON FUNCTIONS

### 3.1 `rnorm`



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CHAPTER

**FOUR**

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**MAIN REFERENCE**



## BIBLIOGRAPHY

[statspy] Wenqiang Feng. [Statistics Python Library API](#).