

# Mia Feng

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## Education

- **National University of Defense Technology** **Changsha city, China**  
*School of Computing, M.E. Computer science and technology* 9/2016 – Present
    - My main research interests are data analysis, reinforce learning, and transfer learning.
    - relevant courses: CS229, CS231n, Linear Algebra.
    - relevant reading: GP for Machine Learning, Psychology.
  - **Wuhan University** **Wuhan city, China**  
*International software school, B.E. Spatial Informatics and Digitalized Technology* 09/2012 – 06/2016
    - National Scholarship, Aug., 2015; Excellent Student Cadre, Aug., 2015.
    - Final GPA: 3.5; thesis: *Fast Satellite Image Storage and Plugin Development Based On HDFS*
    - relevant courses: Statistics, Fundamental of Physics, Advanced mathematics, Linear Algebra.
  - **Wuhan University** **Wuhan city, China**  
*Economics and management school, B.S. Finance* 09/2013 – 06/2016
    - Final grade: 3.0; thesis: *Implications of the Financial Crisis Inherent Defects of the International Monetary System and Some Advice*
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## Experience

- **Meituan-Dianping** **Beijing, China**  
*Research and Development engineer, fintech* 07/2018 – 09/2018
    - Worked on anti-fraud detection
    - I proposed three patents relate to anti-fraud detection, identification detection and intention detection. The patents have been accepted by Meituan-Dianping, and will be handed by them.<sup>1</sup>
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## Certificates and awards

- Outstanding Organizer 12/2016
  - 3rd prize, The 13th MCM of Master<sup>2</sup> 90/2016
  - Excellent Graduate 06/2016
  - National Scholarship 08/2015
  - Outstanding Student Leader 08/2015
  - 2nd Prize, COMAP's MCM<sup>3</sup> 02/2015
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## Languages and Technologies

**Programming Languages:** Python, Java, C++,  $\text{\LaTeX}$ , Matlab, JavaScript, SQL

**Technologies:** SciPy, NumPy, Keras, TensorFlow, DyNet, scikit-learn, UNIX, Git

**Natural Languages:** Fluent in Chinese and English, beginner in French and Japanese.

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<sup>1</sup><https://github.com/skaudrey/cv/blob/master/patent/list.png>

## Projects

- **The naive implementation of some popular machine learning algorithms.** *03/2018 – Present*
    - Naive implementation of some M.L. algorithms, which will be updated continuously<sup>4</sup>.
  - **HCR–Compress and Resonstruct hyper-spectral data.** *10/2018*
    - Compress and reconstructs infrared hyperspectrum data<sup>5</sup>.
  - **Cloud denoise of infrared hyper-spectral data based on logistic.** *04/2018*
    - Distinguish whether infrared atmospheric sounding interferometer’s (IASI’s) instantaneous fields of view (IFOVs) are covered by clouds or not.<sup>6</sup>
  - **Weather processes interpolation based on GPR.** *06/2017–08/2017*
    - Interpolating wind fields.<sup>7</sup>
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## Publications

1. **Feng M, Zhang W, Zhu X, et al.** Multivariate Interpolation of Wind Field Based on Gaussian Process Regression[J]. Atmosphere, 2018, 9(5):194.
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## Talks

- Discussion about Data Assimilation and Machine Learning, Sep. 11th, 2017.<sup>8</sup>
- Multivariate Interpolation of Wind Fields Based on Gaussian Process Regression, Jan. 24th, 2018.<sup>9</sup>
- The Introduction of Infrared Hyper-spectrum Data and kernel PCA compression, June 5th, 2018.<sup>10</sup>

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<sup>4</sup><https://skaudrey.github.io/posts/projects/2018-11-16-ml-implement.html>

<sup>5</sup><https://skaudrey.github.io/posts/projects/2018-11-16-hcr.html>

<sup>6</sup><https://skaudrey.github.io/posts/projects/2018-11-16-lr.html>

<sup>7</sup><https://skaudrey.github.io/posts/projects/2018-11-11-gpr.html>

<sup>8</sup><https://skaudrey.github.io/assets/slides/D.A/pres.pdf>

<sup>9</sup><https://skaudrey.github.io/assets/slides/gpr/windInterpolation.pdf>

<sup>10</sup><https://skaudrey.github.io/assets/slides/hyp/hypCompression.pdf>