Mia Miao Feng

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Education

- **National University of Defense Techonology** **Changsha city, China**
  School of Computing, M.E. Computer science and techonology *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, Fundemental of Physics, Advanced mathematics, Linear Algebra.
- **Wuhan University** **Wuhan city, China**
  Economics and management school, B.S., Finance. *09/2013 – 06/2016*
  - Final GPA: 3.0; thesis: *Implications of the Financial Crisis Inherent Defects of the International Monetary System and Some Advice*

Experience

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

Certificates and awards

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

Languages and Technologies

Programming Languages: Python, Java, C++, 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.

[1] 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[2].
- **HCR–Compress and Resonstruct hyper-spectral data.** *10/2018*
  - Compress and reconstructs infrared hyperspectrum data[3].
- **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.[4].
- **Weather processes interpolation based on GPR.** *06/2017–08/2017*
  - Interpolating wind fields.[5].

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.

Talks

- Discussion about Data Assimilation and Machine Learning, Sep. 11th, 2017.[6]
- Multivariate Interpolation of Wind Fields Based on Gaussian Process Regression, Jan. 24th, 2018.[7]
- The Introduction of Infrared Hyper-spectrtum Data and Kernel PCA, June 5th, 2018.[8]
- What Can Artificial Intelligence Do in Data Assimilation? December 9th, 2018.[9]

Other acdemic activities

- **The International Summer School on Applied Mathematics:** Machine Learning, Deep Learning, Data Assimilation.[10].
- **Computing in the 21th Century & Asia Faculty Summit:** Microsoft, CS, AI, Computational biology.[11].

[2] https://skaudrey.github.io/posts/projects/2018-11-16-ml-implement.html
[3] https://skaudrey.github.io/posts/projects/2018-11-16-hcr.html
[4] https://skaudrey.github.io/posts/projects/2018-11-16-lr.html
[5] https://skaudrey.github.io/posts/projects/2018-11-11-gpr.html
[6] https://skaudrey.github.io/posts/talks/2018-11-12-da+talk.html
[7] https://skaudrey.github.io/posts/talks/2018-11-16-gpr-talk.html
[8] https://skaudrey.github.io/posts/talks/2018-11-12-hyp+talk.html
[9] https://skaudrey.github.io/posts/talks/2018-12-10-mlutility+talk.html
[10] https://skaudrey.github.io/posts/meetings/2018-11-13-harbin.html
[11] https://skaudrey.github.io/posts/meetings/2018-11-13-microsoft.html