

Xuntao Hu

SUMMARY

- Looking for *Data Scientist / Machine Learning Engineer* positions.
- *5+ years* math research experience and *6+ years* teaching experience. *300+ hrs* coding experience in *Python* and *Java*.
- *Quick Learner, Problem Solver, Team Worker.*

EXPERIENCE

CURRENT, FROM FALL 2018

Using News to Predict Stock Movements

Analyzed dataset that contains over 90 million entries of news data in the past 10 years. Established NLP models that correlate the dataset to the stock market movements in the same period.

Python libraries: Pandas, Keras, Matplotlib,

Models: CNN, RNN, GRU, LSTM, Tree Methods

SPRING 2018

Categorize News based on headlines and short descriptions Compare accuracy across different NLP models (CNN, GRU, LSTM)

Python libraries: Pandas, Keras, Matplotlib,

Models: CNN, RNN, GRU, LSTM

GitHub: http://github.com/XT286/News_Category_Kaggle

MATHEMATICS PUBLICATIONS

- X. Hu and C. Norton, *General Variational Formulas for Abelian Differentials*, 40 pages, International Mathematics Research Notices. DOI:10.1093/imrn/rny106, 2017

- X. Hu, *Locus of Plane Quartics with A Hyperflex*, 15 pages, Proceedings of the American Mathematical Society 145 (2017), 1399-1413.

TEACHING EXPERIENCES

JUL 2018	Lecturer: Differential Equations; Logistic Modeling; Series
JUL 17 & 15	Lecturer: Integration Techniques
SINCE 2012	TA and Grader: All levels of Calculus, Statistics, Graduate-level courses
NOTE	<i>Course Evaluation Score:</i> > 4.5/5 on Average (Reports available)

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EDUCATION

2012-Now	Doctor of Philosophy <i>Stony Brook University, NY</i> Mathematics Advisor: Sam Grushevsky GPA: 3.93/4.00 Expected: May 2019 Visa: F1 (36 months OPT)
2008-2012	Bachelor of Science <i>Zhejiang University, China</i> Mathematics and Applied Mathematics Minored in English Literature Advisor: Fangyang Zheng (Ohio State University)

SKILLS

Programming	Python, SQL, R, Java
Python Libraries	Pandas, Keras, Matplotlib, Numpy, Scipy, Tensorflow
Software & Tools	Jupyter, HTML, LaTeX

RELEVANT COURSES

COMPUTER	Algorithms (Coursera) Data Sciences Machine Learning Deep Learning (Coursera) Python for Scientific Computing
MATH	Linear Algebra Probabilities and Statistics Partial Differential Equations Geometry and Topology Real and Complex Analysis

OTHERS

LANGUAGES	English, Chinese, Cantonese
HOBBIES	Photography, Cooking, Hiking, Swimming