X I A O   L I A N G

Education

Sep 16 -	**Ph.D. Student in Computer Science** *Stony Brook University*, Stony Brook, NY.	Gpa: 3.95/4.00
Sep 14 - Dec 15	**Master of Science in Applied Math** *Stony Brook University*, Stony Brook, NY.	Gpa: 4.00/4.00
Sep 10 - Jul 14	**Bachelor of Economics** *Beijing Institute of Technology*, Beijing, China.	Gpa: 91/100 (Ranking 1st/73)
Jan 13 - Jun 13	**Exchange Student of Business School** *City University of Hong Kong*, Kowloon, Hong Kong.	

Research Experience

Jun 1st - — **Selective Opening Security**
– Collaborator: Sanjam Garg, Mohammad Hajiabadi
- On going

Jan 18 - May 30 — **Bounded Concurrent Secure Computation**
– Collaborator: Sanjam Garg, Omkant Pandey, Ivan Visconti
- Paper to appear.

May 17 - Sep 17 — **Round Efficiency of Concurrent Zero-Knowledge**
– Collaborator: Anand Aiyer, Nilu Nalini, Omkant Pandey
- Paper to appear.

—— Remark —— Following research projects were done before I switched to Cryptography. They are either about Machine Learning (my graduate major) or Economics (my undergraduate major).

Oct 15 - Feb 16 — **Reduce the Needed Training Data for Recursive Tensor Neural Network**
– Collaborator: Niranjan Balasubramanian, Ankit Gupta.

- Try various logistic classifiers for making predictions to reduce the data needed for training.
- Train different models to conduct variance-bias analysis, checking the problem of overfitting.
- Propose a method to simplify the parsing tree, saving 40% of labeling work.
- Code to measure the performance of these models on different length of phrases, type of nodes.
- Author of Stony Brook Natural Language Processing python_tools module on gitHub: https://github.com/StonyBrookNLP/stingysentiment/tree/master/python_tools

Oct 12 - Nov 12 — **A Research on Management Mode of China's Nursing Home**
– Collaborator: Jingru Du.

- Conclude data using descriptive statistics for 268 effective questionnaires.
- Conduct Chi-Square Test and Logistic regression to analyze the independence among variables.

Jan 14 - Jun 14 — **Analyze China's Agricultural Exports Using ARIMA & Clustering Model**

- Construct ARIMA(1,2,1) model to predict the short-term export of agricultural products.
- Conduct Hierarchical Clustering with 19 main products using IBM SPSS.
- Draw the conclusion and give out policy-making advice based on analysis of trade structure.

Work Experience

Fall 16	Teaching Assistant for *CSE 214 Computer science II*
Spring 17	Graduate Assistant for Prof. Roy Shilkrot
Summer/Fall 17	Research Assistant for Prof. Omkant Pandey

Publication

Mar 13	Jingru Du, **Xiao Liang**, A Study on the Management Model of Chinese Nursing Homes: with Examples from Beijing , *Foreign Investment in China, Vol. 285,* 2013.03

Standardized Test

TOEFL:	30 (Reading) + 23 (Speaking) + 29 (Listening) + 27 (Writing) = 109

Selected Awards

University Fellowship, Stony Brook University	2016
1st Prize, the 2nd Mathematics Contest in Beijing Institute of Technology	2011
2nd Prize, the 22nd Beijing Undergraduate Mathematics Competition	2011
National Scholarship (The highest honor for Chinese students), Ministry of Education	2011
3rd Prize, the 7th 'Challenge Cup' Capital Undergraduate Extracurricular Academic Science and Technology Works Contest	2012
Scholarship for Excellent Student (Three times)	2011 - 2013
Straight A Student	2012
2nd Prize, the men's 400 meter, Sports Meeting for Colleges of Arts	2011

Skills

Programming	Python, Java, R, MATLAB.
SAS	SAS Certified Advanced Programmer for SAS 9.
Web Developement	Django, JQuery, HTML5, CSS3, Bootstrap3.