

# XIAO LIANG

## Education

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SEP 16 -	<b>Ph.D. Student in Computer Science</b> <i>Stony Brook University, Stony Brook, NY.</i>	GPA: 3.95/4.00
SEP 14 - DEC 15	<b>Master of Science in Applied Math</b> <i>Stony Brook University, Stony Brook, NY.</i>	GPA: 4.00/4.00
SEP 10 - JUL 14	<b>Bachelor of Economics</b> <i>Beijing Institute of Technology, Beijing, China.</i>	GPA: 91/100 (Ranking 1st/73)
JAN 13 - JUN 13	<b>Exchange Student of Business School</b> <i>City University of Hong Kong, Kowloon, Hong Kong.</i>	

## Research Experience

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JUN 20 -	<b>Selective Opening Security</b> <ul style="list-style-type: none"><li>– Collaborator: Sanjam Garg, Mohammad Hajiabadi</li><li>• On going</li></ul>
JAN 18 - MAY 30	<b>Bounded Concurrent Secure Computation</b> <ul style="list-style-type: none"><li>– Collaborator: Sanjam Garg, Omkant Pandey, Ivan Visconti</li><li>• Paper to appear.</li></ul>
MAY 17 - SEP 17	<b>Round Efficiency of Concurrent Zero-Knowledge</b> <ul style="list-style-type: none"><li>– Collaborator: Anand Aiyer, Nilu Nalini, Omkant Pandey</li><li>• Paper to appear.</li></ul>
— 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	<b>Reduce the Needed Training Data for Recursive Tensor Neural Network</b> <ul style="list-style-type: none"><li>– Collaborator: Niranjana Balasubramanian, Ankit Gupta.</li><li>• Try various logistic classifiers for making predictions to reduce the data needed for training.</li><li>• Train different models to conduct variance-bias analysis, checking the problem of overfitting.</li><li>• Propose a method to simplify the parsing tree, saving 40% of labeling work.</li><li>• Code to measure the performance of these models on different length of phrases, type of nodes.</li><li>• Author of Stony Brook Natural Language Processing python_tools module on gitHub: <a href="https://github.com/StonyBrookNLP/stingysentiment/tree/master/python_tools">https://github.com/StonyBrookNLP/stingysentiment/tree/master/python_tools</a></li></ul>
OCT 12 - NOV 12	<b>A Research on Management Mode of China's Nursing Home</b> <ul style="list-style-type: none"><li>– Collaborator: Jingru Du.</li><li>• Conclude data using descriptive statistics for 268 effective questionnaires.</li><li>• Conduct Chi-Square Test and Logistic regression to analyze the independence among variables.</li></ul>
JAN 14 - JUN 14	<b>Analyze China's Agricultural Exports Using ARIMA &amp; Clustering Model</b> <ul style="list-style-type: none"><li>• Construct ARIMA(1,2,1) model to predict the short-term export of agricultural products.</li><li>• Conduct Hierarchical Clustering with 19 main products using IBM SPSS.</li><li>• Draw the conclusion and give out policy-making advice based on analysis of trade structure.</li></ul>

## Work Experience

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FALL 16	Teaching Assistant for <i>CSE 214 Computer science II</i>
SPRING 17	Graduate Assistant for Prof. Roy Shilkrot
SUMMER/FALL 17	Research Assistant for Prof. Omkant Pandey

## Publication

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MAR 13	Jingru Du, <b>Xiao Liang</b> , A Study on the Management Model of Chinese Nursing Homes: with Examples from Beijing , <i>Foreign Investment in China</i> , Vol. 285, 2013.03
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## Language

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

## Selected Awards

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

## Skills

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<b>Programming</b>	Python, C++, R, MATLAB.
<b>SAS</b>	SAS Certified Advanced Programmer for SAS 9.
<b>Web Development</b>	Django, JQuery, HTML5, CSS3, Bootstrap3.