

## Bin Li

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CONTACT INFORMATION	382 Zhonghuan Road East, Panyu District Guangzhou, P.R.China, 510006	(+86) 18825160773 bin.li.daily@gmail.com
RESEARCH INTERESTS	Machine Learning, Deep Learning, Computer Vision (Recognition, Detection and Classification Problems)	
EDUCATION	<b>South China University of Technology</b> , Guangzhou, Guangdong M.S., Software Engineering, Sept 2015 to present <ul style="list-style-type: none"><li>• The First Prize Scholarship (2016)</li><li>• Advisor: Jian Chen, Ph.D</li></ul> <b>University of Chinese Academy of Sciences</b> , Huairou, Beijing Visiting Student, Computer and Control Engineering, Oct 2014 to May 2015 <ul style="list-style-type: none"><li>• Studied Mathematics for Computer Science</li><li>• Created new functionalities for a state-level tax information system</li><li>• Advisor: Jungang Xu, Ph.D</li></ul> <b>Guangzhou University of Chinese Medicine</b> , Guangzhou, Guangdong B.S., Computer Science and Technology, Sept 2011 to July 2015 <ul style="list-style-type: none"><li>• Ranked 2nd among all undergraduate students, CET-6: 522</li><li>• Excellent Intern (2015), Outstanding Graduates (2015)</li><li>• The Second Prize Scholarship (four times, 2012-2015)</li><li>• Deng Tietao Scholarship (2012)</li></ul>	
RESEARCH PROJECT	<b>Cross Validation Optimization for SVM</b>	Oct 2015 to Sept 2016 Proposed three algorithms that reuse the $h^{th}$ SVM for improving the efficiency of training the $(h + 1)^{th}$ SVM <ul style="list-style-type: none"><li>• The SVM k-fold cross validation is time-consuming</li><li>• There are (k-2) common subsets for previous and current SVMs</li><li>• The purpose of this project is to efficiently identify the SVs and to accurately estimate the weights of the next SVM</li></ul> <b>Age Estimation Based on Deep Face Representation</b> Sept 2016 to Jan 2017 Improved the accuracy of age estimation based on DeepID2 <ul style="list-style-type: none"><li>• Increasing additional face detection boxes to represent more detail of the faces</li><li>• Using BB-FCN to select the face landmarks rather than SDM</li><li>• Using triplet loss to train the model for a better accuracy</li></ul> <b>GPU and Warm-Start Optimization for SVM</b> Oct 2015 to Sept 2016 Selecting proper parameters is very important for obtaining an effective SVM <ul style="list-style-type: none"><li>• The parameter selection process is very time-consuming</li><li>• The purpose of this project is to take use of the optimized SVM cross validation and the warm-start algorithm to accelerate the procedure of parameter selection</li></ul>

PUBLICATIONS	<ol style="list-style-type: none"> <li>1. Wen, Zeyi, <b>Bin Li</b>, Kotagiri Ramamohanarao, Jian Chen, Yawen Chen, and Rui Zhang. "Improving Efficiency of SVM k-Fold Cross-Validation by Alpha Seeding." In <i>AAAI</i>, pp. 2768-2774. 2017.</li> <li>2. Huang, Jin, <b>Bin Li</b>, Jia Zhu, and Jian Chen. "Age classification with deep learning face representation." <i>Multimedia Tools and Applications</i> (2017): 1-17.</li> <li>3. Liao, Yongxin, Shenxi Yuan, Jian Chen, Qingyao Wu, and <b>Bin Li</b>. "Joint Classification with Heterogeneous Labels Using Random Walk with Dynamic Label Propagation." In <i>Pacific-Asia Conference on Knowledge Discovery and Data Mining</i>, pp. 3-13. Springer International Publishing, 2016.</li> </ol>
PAPERS IN PREPARATION	<ol style="list-style-type: none"> <li>1. Wen, Zeyi, <b>Bin Li</b>, Kotagiri Ramamohanarao, Jian Chen, Yawen Chen, and Rui Zhang. "GPU and Warm-Start Accelerated Parameter Selection for SVMs."</li> </ol>
PROFESSIONAL EXPERIENCE	<div> Tencent Holdings Limited <div>June 2017 to present</div> <ul style="list-style-type: none"> <li>• Algorithm Development Researcher (Internship)</li> <li>• Data analysis and processing, data warehouse design and implementation (Hive, OLAP)</li> <li>• Detecting user activities with smartphone sensors</li> </ul> </div> <div> Hudongpai Technology Co., Ltd. <div>June 2015 to Aug 2015</div> <ul style="list-style-type: none"> <li>• Fundamental ETL including data cleaning, dimension maintenance</li> <li>• Providing support to eliminate data inconsistency between source applications and new data warehouse</li> <li>• Providing operation and maintenance, monitoring, optimization for website group services, network and security systems</li> </ul> </div>
TECHNICAL SKILLS	<p>Programming Languages: C++ (experienced), Python (experienced), MATLAB (experienced), Hive (experienced)</p> <p>Familiar with: <math>\text{\LaTeX}</math>, LibSVM, Caffe</p> <p>Operating Systems: Linux (Ubuntu), Mac OS X, Microsoft Windows, Android, iOS</p>