Biao Jia

Curriculum Vitae

University of North Carolina at Chapel Hill
Chapel Hill, NC
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Education

Aug.2016-Present	**University of North Carolina at Chapel Hill**, *ph.D candidate*, Computer Science Department, advised by Dinesh Manocha.
Sept.2010-July.2014	**Tsinghua University**, *Beijing*, B.Eng, Computer Science and Technology.

Relevant Skills

Language	C++, Python, Matlab, Bash, Java
Framework	ROS, OpenCV, OpenAI, Flask, tessaract, NLTK

Employment History

Jan.2017	**University of North Carolina at Chapel Hill**, *Teaching Assitant*.
	○ Comp 410.1 Data Structure
July.2014-May.2015	**Landscape Mobile Tech Co.,Ltd.**, *Beijing*, Algorithm Engineer.
	Designed algorithm for two iOS apps: Sight and Screenshots.
	○ Built an iOS application dataset and a application classifier with interns.
	○ Enhanced the OCR rate on screenshots of tesseract by rebuilding models and rewriting functions.
	○ Designed an algorithm to grab the icons and pictures on the screenshots.

Research Experience

Aug. 2016	**Resolution-Complete Multi-agent Motion Planning with Arbitrarily-Shaped Obstacles**, *submitted to AAAI 2017*, coauthor with Liang He, Dinesh Manocha.
	We highlight its performance on challenging 2D benchmarks and highlight the benefits over prior methods.
Spring.2014	**Pedestrian Segmentation after Detection**, *Diploma Project*, advised by Ai Haizhou.
	Apply superpixel segmentation, probabilistic model and sparse codinng to compute the segmentation confidence map. Highlight in computing efficiency.
Summer.2013	**Context based Binary Image Retrieval based on Visual Vocabulary**, *Hong Kong Polytechnic University*, submitted to ICPR 2014.
	Application of this algorithm is to patent image retrieval.

Courses

Graduate	**University of North Carolina at Chapel Hill**.
	○ Motion Planning
	○ 3D Computer Vision
	○ Advanced Machine Learning
	○ Natural Language Processing

Awards

Sep. 2011	**Scholarship in Tsinghua University** , *3rd Place*.
Nov. 2008	**National Olympiad in Informatics in Provinces**, *1st Prize*.
Nov. 2007	**National Olympiad in Informatics in Provinces**, *1st Prize*.