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Guang-Tong Zhou

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KeyBridge Team
Oracle Labs
Vancouver, Canada

SKILLS

Programming	• **Python**, **C++**, **Matlab**, **JavaScript**
Machine Learning	• Experienced with **deep learning**, **large margin methods**, **clustering**, and **anomaly detection**
Computer Vision	• Experienced with **image & video understanding**, **object recognition**, and **semantic segmentation**
Cloud Security	• Experienced with **log analysis**, and **health monitoring**

EDUCATION

Ph.D.	• **Computer Science,** Simon Fraser University, Burnaby, BC, Canada	2015
Master of Science	• **Computer Science**, Shandong University, Jinan, China	2010
Bachelor of Science	• **Computer Science,** Shandong University, Jinan, China	2007

TECHNICAL WORK EXPERIENCE

Senior Researcher	**Oracle Labs**, Vancouver, Canada	Dec 2015-Present
	• **Deep learning for cloud security**: log analysis and health monitoring for Oracle Public Cloud (OPC)	
Intern	**SAP**, Vancouver, Canada	Sept 2014-May 2015
	• **Interactive graph visualization:** implement with JavaScript, jQuery, d3, SVG, etc.	
Intern	**Disney Research**, Pittsburgh, PA, USA	Sept-Dec 2013
	• **Scenery part discovery:** implemented MCF solver in C++ to speed up clustering by 100 times	

RESEARCH EXPERIENCE

Research Assistant	**Dr. Greg Mori**, **Simon Fraser University**, Burnaby, BC, Canada	Jan 2011-Nov 2015
	• **Structured inference neural networks:** jointly recognize image labels at multiple concept layers	
	• **Neural time machine:** predict when, where and what is the next activity in sport videos	
	• **Max-margin clustering:** extend with latent variables and hierarchical structures	
	• **Semantic segmentation:** leverage global object information for local pixel labelings	
	• **Scene understanding:** recognize scenes from a collection of objects and surfaces	
	• **Video event analysis:** discover events in YouTube videos; recognize falling in nursing home videos	
	• **Anomaly detection:** contextual anomaly detection in categorical relational data	
Visiting Student	**Dr. Kai Ming Ting**, **Monash University**, Churchill, Vic, Australia	Aug 2009-Feb 2010
	• **Mass estimation:** design and apply it for outlier detection, information retrieval and regression	
Visiting Student	**Dr. Zhi-Hua Zhou**, **Nanjing University**, Nanjing, Jiangsu, China	Aug 2008-Jan 2009
	• **Content-based image retrieval:** distance metric learning for relevance feedback	

OTHER EXPERIENCE

Teaching Assistant	**Simon Fraser University**, Burnaby, BC, Canada
	• Taught **Machine Learning** (Fall 2011) and **Data Structures and Algorithms** (Spring 2011)
Reviewer	• Conferences: **IJCAI** (2013), **NIPS** (2014,2015,2017), **CVPR** (2018)
	• Journals: **TKDD** (2013), **CVIU** (2014), **TPAMI** (2014, 2016, 2017)
Web Master	• **ACM SIGKDD Conference 2012** (kdd2012.sigkdd.org)

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PUBLICATIONS

[CVPR'16]
• **Learning Structured Inference Neural Networks with Label Relations**.
Hexiang Hu, Guang-Tong Zhou, Zhiwei Deng, Zicheng Liao and Greg Mori.
IEEE Computer Vision and Pattern Recognition, 2016.

[THESIS'15]
• **Toward Scene Recognition by Discovering Semantic Structures and Parts**.
Ph.D. Thesis, Simon Fraser University, 2015.

[ARXIV'15]
• **Hierarchical Maximum-Margin Clustering**.
Guang-Tong Zhou, Sung Ju Hwang, Mark Schmidt, Leonid Sigal and Greg Mori.
arXiv:1502.01827, 2015.

[CVPRW'15]
• **Discovering Human Interactions in Videos with Limited Data Labeling**.
Mehran Khodabandeh, Arash Vahdat, Guang-Tong Zhou, et al.
Workshop on Group and Crowd Behavior Analysis and Understanding (at CVPR), 2015.

[ECCVW'14]
• **Learning Action Primitives for Multi-Level Video Event Understanding**.
Tian Lan, Lei Chen, Zhiwei Deng, Guang-Tong Zhou and Greg Mori.
International Workshop on Visual Surveillance and Re-Identification (at ECCV), 2014.

[ECCV'14]
• **Discovering Video Clusters from Visual Features and Noisy Tags**.
Arash Vahdat, Guang-Tong Zhou and Greg Mori.
European Conference on Computer Vision, 2014.

[NIPS'13]
• **Latent Maximum Margin Clustering**.
Guang-Tong Zhou, Tian Lan, Arash Vahdat and Greg Mori.
Neural Information Processing Systems, 2013.

[CVPR'13]
• **Learning Class-to-Image Distance with Object Matchings**.
Guang-Tong Zhou, Tian Lan, Weilong Yang and Greg Mori.
IEEE Computer Vision and Pattern Recognition, 2013.

[MLJ'13]
• **Mass Estimation**.
Kai Ming Ting, Guang-Tong Zhou, Fei Tony Liu and Swee Chuan Tan.
Machine Learning Journal, 90(1):127-160, 2013.

[PR'12]
• **Relevance Feature Mapping for Content-Based Multimedia Information Retrieval**.
Guang-Tong Zhou, Kai Ming Ting, Fei Tony Liu and Yilong Yin.
Pattern Recognition, 45(4):1707-1720, 2012.

[KDDW'10]
• **Relevance Feature Mapping for Content-Based Image Retrieval**.
Guang-Tong Zhou, Kai Ming Ting, Fei Tony Liu and Yilong Yin.
Workshop on Multimedia Data Mining (at KDD), 2010.

[KDD'10]
• **Mass Estimation and Its Applications**.
Kai Ming Ting, Guang-Tong Zhou, Fei Tony Liu and Swee Chuan Tan.
ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2010.

[EJASP'10]
• **K-means Based Fingerprint Segmentation with Sensor Interoperability**.
Gongping Yang, Guang-Tong Zhou, Yilong Yin and Xiukun Yang.
EURASIP Journal on Advances in Signal Processing, 2010(1):729378, 2010.