

Binhang Yuan

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Profile

- I am a Ph.D. candidate working on large scale machine learning and programming language. My adviser is Dr. Chris Jermaine, and I am co-advised by Dr. Anastasios Kyrillidis for my Ph.D. thesis.

Experience

<i>Research Assistant, Rice University, Houston, TX, United States</i>	2016/08 ~ Present
<ul style="list-style-type: none">Working with Dr. Chris Jermaine and Dr. Anastasios Kyrillidis for my Ph.D. thesis.Designed a sparsified model parallelism algorithm for distributed feed forward neural network training.Designed and implemented a distributed machine learning system based on a relational database system (PlinyCompute).	
<i>Research Intern, Microsoft Research Asia, Beijing, China</i>	2017/07 ~ 2017/11
<ul style="list-style-type: none">Worked with Dr. Weiwei Cui on designing a visualization system for deep learning tasks.	
<i>Software Development Engineer Intern, Tableau Software, Seattle, WA, United States</i>	2016/05 ~ 2016/08
<ul style="list-style-type: none">Worked in Moving to the Web team.Implemented quick number formatting feature for Release 10.1.	
<i>Software Development Engineer Intern, Isilon EMC², Santa Clara, CA, United States</i>	2015/05 ~ 2015/08
<ul style="list-style-type: none">Worked in Isilon System for cloud storage.Added new features to Likewise I/O filter audit system to track transactions in OneFS network file system.	
<i>Research Assistant, Rice University, Houston, TX, United States</i>	2013/09 ~ 2015/05
<ul style="list-style-type: none">Worked with Dr. Ron Goldman and Dr. David Y. Khechoyan (Baylor College of Medicine) on computer graphics, geometry modeling, and applied such techniques to objective plastic surgery assessment.Designed an objective system to evaluate the effect of plastic surgery based on the 3D photos pre- and post- surgery.	

Education

Rice University , Houston, TX, United States Ph.D. , Computer Science	2016/08 - Present
Rice University , Houston, TX, United States M.S. , Computer Science	2013/08 - 2016/05
Fudan University , Shanghai, China B.S. , Computer Science, GPA: 3.73/4.00 (Rank 1st in class)	2009/09 - 2013/07

Publications

- B. Yuan** and W. Xing, "Diagnosing Cardiac Abnormalities from 12-Lead Electrocardiograms Using Enhanced Deep Convolutional Neural Networks" accepted by MLMECH-MICCAI 2019
- D. Jankov, S. Luo, **B. Yuan**, Z. Cai, J. Zou, C. Jermaine, and Z. Gao, "Declarative recursive computation on an RDBMS: or, why you should use a database for distributed machine learning." *Proceedings of the VLDB Endowment*, 12(7), 822-835. (VLDB19 **Honourable Mention Award**)
- J. Zou, R.M. Barnett, T. Llorido-Botran, S. Luo, C. Monroy, S. Sikdar, K. Teymourian, **B. Yuan**, and C. Jermaine, 2018, May. PlinyCompute: A platform for high-performance, distributed, data-intensive tool development. In *Proceedings of the 2018 International Conference on Management of Data*(pp. 1189-1204). ACM. (SIGMOD18)
- B. Yuan**, V. Murali, and C. Jermaine, "Abridging Source Code", in *Proceedings of the ACM on Programming Languages* 1.OOPSLA (2017): 58. (OOPSLA17)
- B. Yuan**, R. Goldman, E. Wang, O. Olorunnipa, D. Khechoyan, "Generating a 3D Normative Infant Cranial Model", *Procedia Computer Science*. 2016 Dec 31;80:988-98. (ICCS16)
- B. Yuan**, D. Khechoyan, R. Goldman, "A New Objective Automatic Computational Framework for Visualizing the Results of Infant Cranial Surgery", *International Conference on Biomedical Computing 2015*.
- K. Li, B. Yan and **B. Yuan**, "A new metric to assess temporal coherence for video retargeting", SPIE/COS Photonics Asia (pp. 92732Z-92732Z). International Society for Optics and Photonics, October. 2014.
- B. Yan, **B. Yuan** and B. Yang, "Effective Video Retargeting with Jittery Assessment", *IEEE Transactions on Multimedia*, Vol. 16, Issue 1, pp. 272-277, Jan. 2014. (TMM14)