

Xiangpeng Hao

T1502-3980 Carrigan Court
Burnaby, Canada,
V3N 4S6

haoxiangpeng@hotmail.com
+1 (604) 783 8546

EDUCATION	Simon Fraser University , Vancouver, Canada <i>Bachelor of Science (Dual Degree)</i> , Computer Science	Sept. 2017 - Present
	Zhejiang University , Hangzhou, China <i>Bachelor of Engineer (Dual Degree)</i> , Computer Science	Sept. 2015 - Present
RESEARCH EXPERIENCE	Research Assistant in Database Group Advisor: Prof. Tianzheng Wang Researched on data-intensive systems and related topics that impact the design of database systems, especially how persistent memory will impact the database index design.	Vancouver, CA Dec. 2018 - Present
	Joint Research With PDCL Advisor: Prof. Keval Vora Joint research with Parallel & Distributed Computing Lab (PDCL) on a new concurrency control protocol, which features relaxed-consistency requirements and efficient NUMA-aware memory management.	Vancouver, CA July. 2019 - Present
	Research Assistant in Computer Vision Group Advisor: Prof. Brian Funt Researched on colour constancy algorithms and related topics that guide the colour constancy research.	Vancouver, CA Feb. - Dec. 2018
	Teaching Assistant for Operating System Explaining theory behind modern operating systems to 2nd-year Undergraduate student and guiding them in lab practicals.	Vancouver, CA May - Aug. 2019
	PUBLICATIONS Baotong LU, Xiangpeng Hao , Tianzheng Wang, Eric Lo. DASH: Dynamic and Scalable Hashing on Persistent Memory . <i>45th International Conference on Very Large Data Bases (VLDB 2020)</i> [under review]	
RESEARCH PROJECTS	Lucas Lersch, Xiangpeng Hao , Ismail Oukid, Tianzheng Wang, Thomas Willhalm. Evaluating Persistent Memory based Range Indexes . <i>45th International Conference on Very Large Data Bases (VLDB 2020)</i>	
	Xiangpeng Hao , Brian Funt. A Multi-illuminant Synthetic Image Test Set . <i>IEEE Transactions on Image Processing (IEEE TIP)</i> [under review]	
	Xiangpeng Hao , Brian Funt, Hanxiao Jiang. Evaluating Colour Constancy on the new MIST dataset of Multi-Illuminant Scenes . <i>27th Color Image Conference, oral preview (CIC 2019)</i>	
	Open-source BzTree Implementation Implemented a fully-functional BzTree in C++ and benchmarked on both main memory and persistent memory. Extended PMwCAS to allow safe allocation, and also extended its API so that PMwCAS can support more real world use cases.	Dec. 2018 - May 2019
AWARDS	Spectral Renderer Extended Blender Cycles to allow physically-accurate spectral rendering. It is the first and only rendering engine that supports texture spectral rendering, and it is used to generate physically colour-accurate images that help the computer vision community.	July. - Dec. 2018
	Sciences Undergraduate Research Student Award (VPR) SFU Undergraduate Open Scholarship SFU Entrance Scholarship China National VEX Competition (Gold medal, captain)	May - Aug. 2019 Sept. 2017 Jul. 2015