

Xiangpeng Hao

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

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

EDUCATION	University of Wisconsin Madison , Wisconsin, US <i>Ph.D. (fellowship) in Computer Science</i> Sept. 2020 - June. 2025(expected) Advisor: Prof. Xiangyao Yu
	Simon Fraser University , Vancouver, Canada <i>Bachelor of Science (Dual Degree), Computer Science</i> Sept. 2017 - June. 2020
	Zhejiang University , Hangzhou, China <i>Bachelor of Engineer (Dual Degree), Computer Science</i> Sept. 2015 - June. 2020
RESEARCH EXPERIENCE	Researcher at Shanghai Qizhi Institute Shanghai, China Advisor: Prof. Yihan Gao (Tsinghua University) Sept. 2020 - Present Explored the design principles of next generation OLTP systems with persistent memory as main storage.
	Research Assistant in Database Group Vancouver, CA Advisor: Prof. Tianzheng Wang Dec. 2018 - Aug. 2020 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.
	Research Assistant in Computer Vision Group Vancouver, CA Advisor: Prof. Brian Funt Feb. - Dec. 2018 Researched on colour constancy algorithms and related topics that guide the colour constancy research.
	Teaching Assistant for Operating System Vancouver, CA Explained theory behind modern operating systems to 2nd-year Undergraduate student and guiding them in lab practicals. May - Aug. 2019
PUBLICATIONS	Xiangpeng Hao , Lucas Lersch, Tianzheng Wang, Ismail Oukid. PiBench Online: Interactive Benchmarking of Persistent Memory Indexes : <i>45th International Conference on Very Large Data Bases (VLDB 2020)</i>
	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>
	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, Hanxiao Jiang. Evaluating Colour Constancy on the new MIST dataset of Multi-Illuminant Scenes . <i>27th Color Image Conference, oral preview (CIC 2019)</i>
	Xiangpeng Hao , Brian Funt. A Multi-illuminant Synthetic Image Test Set . <i>Color Research and Application</i>
RESEARCH PROJECTS	Open-source BzTree Implementation Dec. 2018 - May 2019 Implemented a fully-functional BzTree in C++ and benchmarked on both main mem-

ory and persistent memory. Extended PMwCAS to allow safe allocation, and also extended its API so that PMwCAS can support more real world use cases.

Spectral Renderer

July. - Dec. 2018

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.

AWARDS

Inaugural CRSC Student Award for Canadian Colour Research	May 2020
Sciences Undergraduate Research Student Award (VPR)	May 2019
SFU Undergraduate Open Scholarship	
SFU Entrance Scholarship	Sept. 2017
China National VEX Competition (Gold medal)	Jul. 2015