

## Xiangpeng Hao

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EDUCATION	<b>Simon Fraser University</b> , Vancouver, Canada <i>Bachelor of Science</i> , Computer Science	Sept. 17 - Present
	<b>Zhejiang University</b> , Hangzhou, China <i>Bachelor of Engineer</i> , Computer Science & Technology	Sept. 15 - Present
RESEARCH EXPERIENCE	<b>Research Assistant in Database Group</b>	Dec. 18 - Present
	Advised by Tianzheng Wang to research on data-intensive systems and related topics that impacts the design of database systems, especially how persistent memory will impact the database index design.	
	<b>Teaching Assistant for Operating System</b>	May 19 - Aug. 19
	Explaining theory behind modern operating systems to 2nd-year Undergraduate student and guiding them in lab practicals.	
PUBLICATIONS	<b>Research Assistant in Computer Vision Group</b>	Feb. 18 - Apr. 19
	Advised by Brian Funt to research on colour constancy algorithms and related topics that guide the colour constancy research.	
	Baotong Lu, <b>Xiangpeng Hao</b> , Tianzheng Wang, Eric Lo. <b>DASH: Dynamic and Scalable Hashing on Persistent Memory</b> <i>45th International Conference on Very Large Data Bases (VLDB)</i> [under review]	
	Lucas Lersch, <b>Xiangpeng Hao</b> , Ismail Oukid, Tianzheng Wang, Thomas Willhalm. <b>Evaluating Persistent Memory based Range Indexes.</b> <i>45th International Conference on Very Large Data Bases (VLDB 2020)</i>	
RESEARCH PROJECTS	<b>Xiangpeng Hao</b> , Brian Funt. <b>A Multi-illuminant Synthetic Image Test Set.</b> <i>IEEE Transactions on Image Processing (IEEE TIP)</i> [under review]	
	<b>Xiangpeng Hao</b> , Brian Funt, Hanxiao Jiang. <b>Evaluating Colour Constancy on the new MIST dataset of Multi-Illuminant Scenes.</b> <i>27th Color Image Conference (CIC 2019)</i>	
	<b>Open-source BzTree Implementation</b>	May 19
AWARDS	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.	
	<b>Spectral Renderer</b>	July. 18 - Dec 18
	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	<b>Sciences Undergraduate Research Student Award (VPR)</b>	May 19 - Aug. 19
	<b>SFU Undergraduate Open Scholarship</b>	
	<b>SFU Entrance Scholarship</b>	Sept. 17
	<b>China National VEX Competition (Gold medal, captain)</b>	Jul. 15