

Xiangpeng Hao

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EDUCATION	Simon Fraser University , Vancouver, Canada <i>Bachelor of Science</i> , Computer Science	Sept. 17 - Present
	Zhejiang University , Hangzhou, China <i>Bachelor of Engineer</i> , Computer Science Technology	Sept. 15 - Present
EXPERIENCE	Research Assistant in Database Group 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.	Dec. 18 - Present
	Teaching Assistant for Operating System Explaining theory behind modern operating systems to 2nd-year Undergraduate student and guiding them in lab practicals.	May 19 - Aug. 19
	Research Assistant in Computer Vision Group Advised by Brian Funt to research on colour constancy algorithms and related topics that guide the colour constancy research.	Feb. 18 - Apr. 19
	Software Engineer intern in Demonware Maintained a tool to perform loadtest on Call Of Duty, used Docker and Kubernetes to scale the loadtest, and developed a web application with 7k lines of code to visualize the loadtest	Sept. 18 - Dec. 18
PUBLICATIONS	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 (CIC 2019)</i>	
PROJECTS	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.	May 19
	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. 18 - Dec 18
AWARDS	Sciences Undergraduate Research Student Award (VPR)	May 19 - Aug. 19
	SFU Entrance Scholarship	Sept. 17
	China National VEX Competition (Gold medal, captain)	Jul. 15