

EDUCATION	<b>Ph.D. in Computer Science</b>	2019 (expected)
	National University of Singapore, Singapore (NUS)*	
	Supervisor: Prof. Bingsheng He	
	*: 2014~2016 in Nanyang Technological University with the same supervisor	
	<b>B.E(hons) in Computer Engineering</b>	Aug 2014
	Nanyang Technological University (NTU), Singapore (GPA 4.83/5)	
AWARDS	<ul style="list-style-type: none"> <li>• Research Achievement Award (NUS)</li> <li>• SIGMOD 2019 Travel Award</li> <li>• SAP PhD Research Scholarships</li> <li>• Research Achievement Award (NUS)</li> <li>• Dean's list student (NTU)</li> <li>• Best peer tutor/coach awards (NTU)</li> <li>• AY11-12 URECA Certificate (NTU)</li> <li>• Senior Middle 3 Singapore Government Undergraduate Scholarship</li> </ul>	2018 – 2019 2019 2014 – 2018 2017 – 2018 2010 – 2013 2012 – 2013 2011 – 2012 2010 – 2014
PUBLICATIONS	<ol style="list-style-type: none"> <li>1. Jieliang Ang, Tianyuan Fu, Johns Paul, <b>Shuhao Zhang</b>, Bingsheng He, Teddy Sison David Wenceslao, Sien Yi Tan, "TraV: An Interactive Trajectory Exploration System For Massive Data Sets" <i>To appear in IEEE BIGMM (demo)</i>, 2019</li> <li>2. <b>Shuhao Zhang</b>, Feng Zhang, Yingjun Wu, Paul Johns, Bingsheng He, "Hardware-Conscious Stream Processing: A Survey" <i>To appear in SIGMOD Record</i>, 2019</li> <li>3. <b>Shuhao Zhang</b>, Jiong He, Amelie Chi Zhou, Bingsheng He, "BriskStream: Scaling Data Stream Processing on Shared-Memory Multicore Architectures" <i>SIGMOD</i>, 2019</li> <li>4. <b>Shuhao Zhang</b>, Bingsheng He, Daniel Dahlmeier, Amelie Chi Zhou, Thomas Heinze, "Revisiting the design of data stream processing systems on multi-core processors" <i>ICDE</i>, 2017</li> <li>5. <b>Shuhao Zhang</b>, Hoang Tam Vo, Daniel Dahlmeier, Bingsheng He, "Multi-Query Optimization for Complex Event Processing in SAP ESP" <i>ICDE</i>, 2017</li> <li>6. Feng Zhang, Jidong Zhai, Bingsheng He, <b>Shuhao Zhang</b>, Wenguang Chen, "Understanding Co-running Behaviors on Integrated CPU/GPU Architectures" <i>TPDS</i>, 2017</li> <li>7. Shanjiang Tang, Bingsheng He, <b>Shuhao Zhang</b>, Zhaojie Niu, "Elastic Multi-Resource Fairness: Balancing Fairness and Efficiency in Coupled CPU-GPU Architectures" <i>SC</i>, 2016.</li> <li>8. Zeke Wang, <b>Shuhao Zhang</b>, Bingsheng He, Wei Zhang, "Melia: A MapReduce Framework on OpenCL-Based FPGAs" <i>IEEE TPDS</i>, 2016.</li> <li>9. Feng Zhang, Jidong Zhai, Wenguang Chen, Bingsheng He, <b>Shuhao Zhang</b>, "To Co-run, or Not to Co-run: A Performance Study on Integrated Architectures" <i>MASCOTS (short-paper)</i>, 2015.</li> <li>10. Jiong He, <b>Shuhao Zhang</b>, Bingsheng He, "In-Cache Query Co-Processing on Coupled CPU-GPU Architectures", <i>VLDB</i>, 2014.</li> <li>11. <b>Shuhao Zhang</b>, Jiong He, Bingsheng He, Mian Lu, "OmniDB: Towards Portable and Efficient Query Processing on Parallel CPU/GPU Architectures" <i>VLDB (demo)</i> 2013.</li> </ol>	

PATENTS

1. **Shuhao Zhang**, Bingsheng He, Daniel Hermann Richard Dahlmeier, "Efficient execution of data stream processing systems on multi-core processors", *US Patent App. 15/348,932*, 2018.

2. **Shuhao Zhang**, Hoang Tam Vo, Daniel Hermann Richard Dahlmeier, Bingsheng He, "Multi-query optimizer for complex event processing", *US Patent App. 9,953,056*, 2018.

WORK  
EXPERIENCE

<b>Research Fellow/Assistant</b> NUS-Grab AI Lab Singapore My research involves investigating new opportunities to enhance real-time trajectory data management including design of scalable trajectory query processing systems.	Aug 2018 – present
<b>Research Associate (Ph.D scholars)</b> Research & Innovation, SAP Singapore My research involves investigating new opportunities to enhance complex event processing including design of new framework with related techniques and software modules. <i>Two patents filed.</i>	Aug 2014 – Aug 2018
<b>Research Assistant (Internship)</b> Division of DCT, Data Storage Institute Contributed on varies projects of cloud security area.	Jun 2012 – Aug 2013