Wenbin He

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Education

2012 – Present **Department of Computer Science and Engineering, The Ohio State University, OH**
Ph.D. *grad.* 12/2019
GPA: 3.6/4.0

2008 – 2012 **School of Software, Beijing Institute of Technology, Beijing, China**
B.Eng. degree
GPA: 3.4/4.0

Work Experience

05/2017 – Present **Graduate Research Associate** **The Ohio State University, OH**
05/2013 – 12/2016
Working on big data analysis and visualization to understand insights hidden in the data. Mainly focusing on uncertain data analysis and visualization using statistical and deep learning models

01/2017 – 05/2017 **Graduate Teaching Associate** **The Ohio State University, OH**
Teaching assistant for *Real-Time Rendering* and *Introduction to Data Visualization* classes

05/2016 – 08/2016 **Research Aide** **Argonne National Laboratory, IL**
Worked on parallel reduction for large-scale data analysis and visualization on Blue Gene/Q supercomputers

05/2015 – 07/2015 **Research Aide** **Argonne National Laboratory, IL**
Worked on analysis and visualization of uncertain unsteady flows using statistical models

Featured Publications

- **Wenbin He**, Hanqi Guo, Han-Wei Shen, and Tom Peterka, "eFESTA: Ensemble Feature Exploration with Surface Density Estimates," *IEEE Transactions on Visualization and Computer Graphics*. (Early Access)
- **Wenbin He**, Hanqi Guo, Tom Peterka, Sheng Di, Franck Cappello, and Han-Wei Shen, "Parallel Partial Reduction for Large-Scale Data Analysis and Visualization", *In Proceedings of 2018 IEEE Symposium on Large Data Analysis and Visualization*, 2018. (**Honorable Mention**)
- Hanqi Guo, **Wenbin He**, Sangmin Seo, Han-Wei Shen, Emil Mihai Constantinescu, Chunhui Liu, and Tom Peterka, "Extreme-Scale Stochastic Particle Tracing for Uncertain Unsteady Flow Visualization and Analysis," *IEEE Transactions on Visualization and Computer Graphics*. (Early Access)
- **Wenbin He**, Xiaotong Liu, Han-Wei Shen, Scott M. Collis, and Jonathan J. Helmus, "Range Likelihood Tree: A Compact and Effective Representation for Visual Exploration of Uncertain Data Sets," *In Proceedings of 2017 IEEE Pacific Visualization Symposium*, pp. 151–160, 2017.
- Hanqi Guo, **Wenbin He**, Tom Peterka, Han-Wei Shen, Scott M. Collis, and Jonathan J. Helmus, "Finite-Time Lyapunov Exponents and Lagrangian Coherent Structures in Uncertain Unsteady Flows," *IEEE Transactions on Visualization and Computer Graphics*, vol. 22, no. 6, pp. 1672–1682, 2016.

Skills

Languages: C, C++, Python, JavaScript, HTML, CSS
Graphics and Data Visualization: OpenGL, WebGL, GLSL, Three.js, D3.js
High Performance Computing: CUDA, MPI
Deep Learning: TensorFlow, PyTorch