

Paul Navrátil

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Dr. Paul A. Navrátil is a Research Scientist and Director of Visualization at the Texas Advanced Computing Center (TACC) at the University of Texas at Austin. He is an expert in high-performance visualization technologies, accelerator-based computing and advanced rendering techniques.

His research seeks to improve analytic capacity and insight communication across scientific workflows, including efficient algorithms for large-scale parallel visualization and data analysis (VDA) and innovative design for immersive VDA systems.

Dr. Navrátil's recent work includes algorithms for large-scale distributed-memory ray tracing, including the GraviT and Galaxy ray tracing frameworks, which enable photo-realistic rendering of the largest datasets produced on supercomputers today. His team provisions TACC's two visualization labs and the remote visual analytic environments on TACC's advanced computing systems, including the US NSF leadership-class systems *Stampede2* and *Frontera*.

Dr. Navrátil's work has been featured in numerous venues, both nationally and internationally, including the New York Times, Discover, and PBS News Hour. He holds BS, MS and Ph.D. degrees in Computer Science and a BA degree in Plan II Interdisciplinary Honors from the University of Texas at Austin.