

# ALOK HOTA

(615) · 419 · 7781 ◇ alok@utk.edu

## EDUCATION

<b>PhD in Computer Science</b> , University of Tennessee, 3.92 GPA Focus on Large Data Visualization—scalable software platforms to support interactive visualization of complex spatio-temporal datasets.	<i>in progress</i>
<b>MS in Computer Science</b> , University of Tennessee	2014–2017
<b>BE in Computer Engineering</b> , Vanderbilt University	2011–2013
<b>BS in Computer Science</b> , University of Tennessee	2008–2011

## EXPERIENCE

<b>Sandia National Laboratories</b> <i>Graduate Student Intern</i> <ul style="list-style-type: none"><li>· Development of a method for general-case vectorization in VTK-m for x86 CPUs</li></ul>	Summer 2016 Albuquerque, NM
<b>Intel Parallel Computing Center at Joint Institute for Computational Science</b> <i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>· Integration and support of OSPRay ray tracing rendering engine into the VisIt visualization application</li></ul>	Fall 2014–present Knoxville, TN
<b>Advanced Computing Center for Research and Education</b> <i>Professional Programmer</i> <ul style="list-style-type: none"><li>· Developed live depot activity monitor for storage depots</li><li>· Expanded in-house message queue system for parallel job distribution</li></ul>	June 2013–July 2014 Nashville, TN
<b>Institute for Software Integrated Systems</b> <i>Undergraduate Student Researcher</i> <ul style="list-style-type: none"><li>· Worked under Dr. Gautam Biswas to develop a traffic simulation model</li></ul>	February 2012–May 2013 Nashville, TN
<b>National Oceanic and Atmospheric Administration</b> <i>Undergraduate Student Intern</i> <ul style="list-style-type: none"><li>· Developed several NOAA EVL Images of the Day</li><li>· Processed and visualized lightning strikes during a tornado event</li></ul>	Summer 2011 Silver Spring, MD
<b>Fisk University</b> <i>Undergraduate Student Researcher</i> <ul style="list-style-type: none"><li>· Worked under Dr. Lei Qian on NOAA-funded projects</li><li>· Developed a hurricane detection algorithm using target location</li></ul>	2009–2011 Nashville, TN

## SKILLS

<b>Fluent with</b>	<b>Python</b> , C/C++, Java, Bash
<b>Knowledgeable with</b>	VisIt, ParaView, VTK, VTK-m, CUDA

## SCHOLARSHIPS AND AWARDS

University of Tennessee Athletic Department Graduate Student Award	2014–present
Dean's List, Vanderbilt University	2011, 2012
Summa cum Laude, Fisk University	2011
Provost's List, Fisk University	2008–2011

## PUBLICATIONS

- Alok Hota**, Mohammad Raji, Tanner Hobson, Jian Huang, “A Space-Efficient Method for Ensemble Analysis and Visualization”, Accepted to *EGPGV*, 2017.
- Mohammad Raji, **Alok Hota**, Robert Sisneros, Jian Huang, “Photo-Guided Exploration of Volume Data Features”, Accepted to *EGPGV*, 2017.
- Mohammad Raji, **Alok Hota**, Jian Huang, “Embeddable Volume Rendering”, Submitted to *IEEE SciVis*, 2017.