ALOK HOTA

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EDUCATION

PhD in Computer Science, University of Tennessee   *2014-2018*
Dissertation: *VaaS: Visualization as a Service*

MS in Computer Science, University of Tennessee   *2017*

BE in Computer Engineering, Vanderbilt University   *2013*

BS in Computer Science, Fisk University   *2011*

PUBLICATIONS

Hota, A., Huang, J., "Embedding Meta Information into Visualizations", IEEE TVCG May 2019. 🔗

Raji, M., **Hota, A.**, Hobson, T., Huang, J., "Scientific Visualization as a Microservice", IEEE TVCG Nov 2018. 🔗

Raji, M., **Hota, A.**, Huang, J., "Scalable Web-Embedded Volume Rendering", LDAV 2017. *Best Paper Award, LDAV 2017.* 📄

Hota, A., Raji, M., Hobson, T., Huang, J., "A Space-Efficient Method for Ensemble Analysis and Visualization", EGPGV 2017. 📄

Raji, M., **Hota, A.**, Sisneros, R., Huang, J., "Photo-Guided Exploration of Volume Data Features", EGPGV 2017. 📄

EXPERIENCE

Intel Corporation   May 2018–present
Solutions Architect and Graphics Software Engineer   *Austin, TX*

· Architect reference hardware and software designs for rendering solutions
· Customer outreach and collaboration with development of the OSPRay Studio rendering and visualization application
· Collaborate on development of high performance ray tracing libraries - Open VKL and OSPRay
· Maintained OpenSWR, a high performance open-source software rasterizer integrated in Mesa

Sandia National Laboratories   Summer 2016, Summer 2017
Graduate Student Intern   *Albuquerque, NM*

· Development, integration, and testing of auto-vectorization method in VTK-m for x86 platforms

Intel Parallel Computing Center at Joint Institute for Computational Science   Fall 2014–present
Graduate Research Assistant   *Knoxville, TN*

· Integration of OSPRay into the VisIt visualization application

Advanced Computing Center for Research and Education   June 2013–July 2014
Programmer   *Nashville, TN*

Institute for Software Integrated Systems   February 2012–May 2013
Undergraduate Student Researcher   *Nashville, TN*

National Oceanic and Atmospheric Administration   Summer 2011
Undergraduate Student Intern   *Silver Spring, MD*

Fisk University   2009–2011
Undergraduate Student Researcher   *Nashville, TN*

SKILLS

Languages	**C/C++**, **Python**, JavaScript, Shell scripting
Tools and Frameworks	Git, Docker, Bootstrap, ThreeJS, VisIt, ParaView, VTK, VTK-m
Applications	Blender, FL Studio, Photoshop, After Effects, Premiere