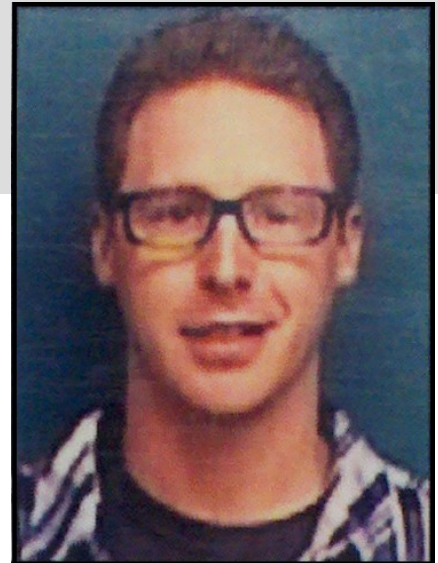


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Burlen Loring earned a M.S. in Applied Mathematics from the University of New Hampshire with a thesis titled "Numerical Methods for Adaptive Mesh Refinement and Magnetohydrodynamics." In his thesis work he developed a constrained transport based method for conserving magnetic flux across coarse fine grid interfaces without the need for refluxing in AMR MHD simulations. After graduation he worked at UNH's Solar Terrestrial Space Theory Group on the parallel visualization of solar wind and magnetospheric datasets using VTK. In 2008 he joined the HPC group at Kitware Inc to develop VTK, an open source scientific visualization library and ParaView, an open source parallel visualization tool. He went on to work at the University of California at San Diego visualizing the data generated by a cutting edge hybrid PIC magnetospheric simulation called H3D. At UCSD he developed techniques for visualizing the magnetosphere and detecting and visualizing flux transfer events, which are thought to be the mechanism whereby high energy particles are transferred from the solar wind into the magnetosphere. Burlen is currently at Lawrence Berkeley National Lab where he is involved in a number of projects including the RDAV user services group, and NERSC analytics team. His interests include interactive remote parallel visualization tool development, collaborating with scientists to solve their visualization challenges, parallel I/O optimization, and emerging heterogeneous HPC architectures.

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