



# PYTHON FOR HIGH PERFORMANCE AND SCIENTIFIC COMPUTING



Workshop collocated with the 24rd International Conference for High Performance Computing, Networking, Storage and Analysis (SC11)

<http://www.dlr.de/sc/pyhpc2011>

November 18, 2011, Seattle, WA, USA



## Program

Time	Presenters	Title
9:00 - 9:10	Andreas Schreiber & attending program committee members	<i>Welcome &amp; Introduction</i>
9:10 - 9:30	Peter Bui, Dinesh Rajan, Badi Abdul-Wahid, Jesus Izaguirre and Douglas Thain	<b>Work Queue + Python: A Framework For Scalable Scientific Ensemble Applications</b>
9:30 - 9:50	Minesh B Amin	<b>A Technical Anatomy Of How OpenMPI Applications Can Inherit Fault-Tolerance Using SPM. Python</b>
9:50 - 10:10	Xunhao Li, Rahul Garg and Jose Nelson Amaral	<b>A New Compilation Path: From Python/NumPy to OpenCL</b>
10:10 - 10:30	Wes Mckinney	<b>pandas: a Foundational Python Library for Data Analysis and Statistics</b>
10:30 - 11:00	<i>Break</i>	
11:00 - 11:20	Samantha S. Foley, Wael R. Elwasif and David E. Bernholdt	<b>The Integrated Plasma Simulator: A Flexible Python Framework for Coupled Multiphysics Simulation</b>
11:20 - 11:40	Matthew Turk and Britton Smith	<b>High-Performance Astrophysical Simulations and Analysis with Python</b>
11:40 - 12:00	Chris Kees and Matthew Farthing	<b>Parallel Computational Methods and Simulation for Coastal and Hydraulic Applications Using the Proteus Toolkit</b>
12:00 -	all	<i>Discussion</i>