



“We brought together on a single system high levels of compute and I/O with Hadoop and machine learning frameworks in an OpenStack\* environment, giving us customizability and security for our users.”

**Dr. Paul Calleja, Director of Research Computing Services**

# University of Cambridge’s Breakthrough Research on Large Data and AI

The University of Cambridge’s mission is to “contribute to society through the pursuit of education, learning and research at the highest inter-national levels of excellence.” University of Cambridge researchers are applying AI across a wide range of physical, material and social sciences where large data can reveal new insights. While compute performance has accelerated, even the fastest networks become bottlenecks, impacting users’ time-to-solution as massive amounts of data must move around storage and compute clusters. According to the Virtual Institute for I/O\*, the Cumulus supercomputer now has the fastest I/O on the planet using Intel® Xeon Scalable processors and Intel® Omni-Path Architecture, giving researchers the tools to address the most difficult data-driven problems in the world.

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