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Certificate of participation	+31 20 525 7514	A.S.Z.Belloum@uva.nl

To Whom It May Concern:

Certificate of participation

This is to certify that Mr. Pieter Willem Groen has participated in the course HPC and Big Data¹ Organized by the University of Amsterdam and SURFSara in June, 2016.

The course is part of the UvA Bachelor informatica and worth 6 ECTS:

Mr. Pieter Willem Groen has followed the following lectures and workshops

1. Intro to distributed sys & BigData (6 hours)
2. Local and Remote Visualisation Techniques (4 hours)
3. Introduction to Unix (2 hours)
4. Using HPC systems (4 hours)
7. GPU programming (4 hours)
5. HPC Cloud (8 hours)
6. Data-intensive Computing with Spark & Hadoop (8 hours)
8. Programming HPC systems with OpenMP and MPI (4 hours)

Best Regards
Adam S.Z. Belloum, Coordinator of the course



¹ <http://hpc.uva.nl/>