

Luis Cebamanos

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Over 10 years of professional experience in writing, analysing and optimising software that solves some of the world's largest and most difficult scientific and industrial problems using massively parallel supercomputers. My main interest is the optimization of applications running on very large parallel supercomputers and achieving optimal performance for real scientific applications.

Previous Employment

- **EPCC**
Senior HPC Applications Analyst
Leading HPC technical projects for industrial and academic clients. Provide expertise on architecture and software applications.

Edinburgh, UK
2020–present
- **HPC Applications Analyst**
Providing scientific, technical and programming HPC consultancy, support and training for academic and industrial clients of EPCC and the University. I provide HPC applications consultancy on academic and industrial projects using novel computing techniques to ensure that key project deliverables are met. As an applications consultant I debug, run, and optimize HPC applications, prepare applications to run on future architectures and provide expert advice on data management, software, compilers and tools.

Edinburgh, UK
2015–2020
- **HPC Applications Developer**
Development, parallelization and optimization of scientific and technical applications. I was also providing end-user support on a broad range of projects including the UK National Supercomputing facility. I run benchmarks on different HPC systems and analysed results to provided EPCC clients the best performance possible.

Edinburgh, UK
2012–2015
- **ZoneFox**
Software Engineer
My main role was the kernel development of data security solutions for multinational companies. However since we were a start-up company I also worked on multiple phases of our security solutions

Edinburgh, UK
2010–2012
- **Heriot Watt University**
Scientific Computing Support
Parallelization and optimization of computational chemistry simulations.

Edinburgh, UK
2009–2010
- **Barcelona Supercomputing Center**
Junior HPC Software Developer
Analysis, optimization and tuning of in-house parallel scientific software packages used by the centre.

Barcelona, Spain
2008–2009
- **The University of Manchester**
Visiting Researcher
FDTD simulations of the electromagnetic fields behavior of a group antennas designed for space communication. I was a member of the Square Kilometer Array (SKA) software development team.

Manchester, UK
2007–2008

Education

Academic Qualifications.....

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| ○ Edinburgh University | Edinburgh |
| ○ <i>MSc High Performance Computing, UK</i> | <i>2010–2011</i> |
| ○ Polytechnic University of Valencia | Valencia |
| ○ <i>MSc in Telecommunication and Computing Engineering, Spain</i> | <i>2005–2008</i> |
| ○ Polytechnic University of Valencia | Valencia |
| ○ <i>BEng in Telecommunication Engineering, Spain</i> | <i>2000–2005</i> |

Technical Skills

- **Programming languages:** C, C++, Fortran
- **Scripting:** Shell, Python
- **Parallel Computing:** MPI, OpenMP, CUDA, OpenACC, Coarray
- **Compilers:** GNU, PGI, Intel, Cray, ARM
- **Debuggers:** DDT, TotalView, Valgrind, gdb
- **Profilers:** CrayPat, TAU, Scalasca, nvprof, MAP, VTune
- **Queuing systems:** PBS, SLURM, LSF, SGE
- **HPC systems:** Cray XT4, XE6/7, XC30/40/50, SGI UV 2000, BlueGene/Q
- **Parallel file systems:** Lustre, GPFS

Personal Skills

- Excellent team player
- Ability to work in group
- Flexibility, adaptability and empathy