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Education

Universidad de los Andes, Colombia.
B.S. Physics, (last year).
GPA: 4.37/5.00.

Universidad de los Andes, Colombia.
B.S. Economics, 2016.
GPA: 4.37/5.00.

Acknowledges

Universidad de los Andes.
Quiero Estudiar Scholarship for academic excellence to course undergraduated studies.

Experience

Banco de la República, Central Bank of Colombia.
Economist and Research Assistant at Macroeconomics Modelling Department.
Research Assistant in the development and implementation of High Dimensional DSGE models for Monetary Policy and Sovereign Debt analysis using High Performance Computing tools like parallel computing (MPI, OpenMP), main scientific libraries (LAPACK, BLAS, LINPACK) and sparse grids methods.
August, 2016 - Now.

Universidad de los Andes.
Teaching Assistant. Computational Methods.
Teaching Assistant in Computational Methods for bachelor in Physics using python and C to teach interpolation methods, differential equations solutions, PCA, Fourier analysis, numerical differentiation and integration and Monte Carlo methods.
August, 2015 - December, 2015.

Banco de la República, Central Bank of Colombia.
Intern at Macroeconomics Modelling Department.
Development and implementation of computational macroeconomic models using dynamic programing, global methods solution, Fortran, C and High Performance Computing (HPC) techniques as Parallel Computing and Distributed and Shared Memory in order to improve code performance efficiency.
January, 2015 - December, 2015.

Universidad de los Andes.
Teaching Assistant, Instructor.
Academic instruction in the guidance of the learning process of first year students of Economics,

Science and Engineering majors for the microeconomics, econometrics and basics physics courses.
January, 2014 - November, 2014.

Courses

Universidad de los Andes.
Real Analysis and Optimization.
Summer School, Department of Economics.
Summer, 2014.

Computer Skills

Fortran, C, C++, Python, R, Java, Shell, Git

MPI, OpenMP, Pandas, Sklearn, BLAS, LAPACK.

Matlab/Octave, Stata, Bloomberg.

Languages

Spanish (Mother tongue), English (Proficient), Chinese (Basic).

Extracurricular Activities

Guitar, calisthenics and soccer.