

# Ramiro Vignolo

LEAD QUANTITATIVE ANALYST & DEVELOPER · NUCLEAR ENGINEER

CRISIL, Av. Del Libertador 174, Vicente López, Buenos Aires, Argentina

☎ (+54) 9 11 6482-4868 | ✉ ramirovignolo@gmail.com | 🐙 rvignolo | 🌐 rvignolo

## Summary

### Applied Scientist

I am a Nuclear Engineer with vast experience in mathematical modeling, numerical simulation and programming applied in both open source and proprietary software for solving scientific problems in a wide variety of domains, such as nuclear & reactor physics, heat transfer, and finance. I really enjoy having new challenges, no matter the scientific domain: I have passion for teaching and learning.

## Professional Experience

### CRISIL

New York and Buenos Aires

LEAD QUANTITATIVE ANALYST AND TECHNICAL MANAGER

Sep. 2017 - Present

- Currently leading a team in the Research and Development Department building a comprehensive library for Quantitative Finance.
- Worked for two Tier 1 Banks, both remotely and in their offices in New York, implementing several financial algorithms in their infrastructure.

### BESNA

Buenos Aires, Argentina

NUCLEAR ENGINEERING CONSULTANT

Dec. 2016 - Dec. 2017

- Design and development of Heat Transfer – Two-Phase Flow calculation codes for Nuclear Reactors in C.

### TECNA

Buenos Aires, Argentina

S/SR NUCLEAR ENGINEER

Oct. 2014 - Aug. 2017

- Development of Reactor Physics (neutronic, thermohydraulic and control) high performance calculation codes, mainly in C and Fortran.
- Specialist in calculations and analysis for Nuclear Reactors.

## Academic Formation

### Balseiro Institute, Cuyo National University & National Atomic Energy Commission

San Carlos de Bariloche, Argentina

BACHELOR AND MASTER OF SCIENCE IN NUCLEAR ENGINEERING

2011 – 2014

- GPA: 8.4 out of 10.

### National Technological University

Buenos Aires, Argentina

AERONAUTICAL ENGINEERING

2009 – 2011

- Completed the first two years.
- GPA: 9.7 out of 10.

## Research Internships

### INVAP S.E.

San Carlos de Bariloche, Argentina

NUCLEAR ENGINEERING DEPARTMENT

Jun. 2013 – Jun. 2014

- Nuclear Engineering graduate dissertation.

## Honors & Awards

2011 – 2014 **Bachelor and Master of Science Scholarship**, National Atomic Energy Commission.

San Carlos de Bariloche,  
Argentina

## Skills

### Programming

C/C++/C#, Julia, Python, FORTRAN, R, Scripting (bash, AWK, sed, curl, etc), T<sub>E</sub>X, etc.

### Software

Julia Packages, GNU/Linux, GNU Scientific Library, PETSc, SLEPc, GNU Octave, Matlab, Mathematica, Git (CI/CD), Python Libraries, etc.