



Ares Bortolussi

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ABOUT ME

Electrical and electronics designer and programmer with great teamworking skills, with 15 years of experience in the use of many programming languages and software acquired in different stages of education and through various collaborations.

WORK EXPERIENCE

Python for Data Analysis and Visualization Teacher

Starting Finance [10/2020 – Current]

City: Rome

Country: Italy

Python for data analysis and data visualization teacher in an online class by Starting Finance

Scientific communicator/researcher/performer

PalaExpo - Mattatoio / Andrea Galvani Studio [13/07/2020 – 25/10/2020]

- <https://www.mattatoioroma.it/mostra/andrea-galvani-la-sottigliezza-delle-cose-elevate>

City: Rome

Country: Italy

My role in the exhibit was to use my knowledge as a Physics student to represent equations and graphs from my studies and fields of interests, combining them with those of my colleagues on the walls of the space.

Apart from the purely artistic side of the job, a great part of the focus was on explaining the concepts represented in a simple and clear way to visitors at the gallery.

Furthermore, I presented in depth the concepts I had written on the walls during a specific event, geared to illustrate my specific scope of research. During the event I spoke about linear algebra, differential partial equations, biology, evolution of life, astrobiology, electromagnetism, nuclear and subnuclear physics, history of science, genetics, bases of AI and machine learning, how stars born/live/die, the difference between old model and new model in the solar system and related topics.

Private tutor

Self-Employed [09/2012 – Current]

Private tutor in physics and mathematics to middle and high school students.

Senior Electronic Design Engineer

Self-Employed [2009 – 2019]

Freelancer in different technical areas, such as software design, PCB board prototype designer using CAD, etc.

Mixology bartender

Pub [05/2018 – 08/2018]

Barman

Bar [09/2010 – 03/2011]

City: Rome

Country: Italy

Barman

Mokagest [05/2007 – 12/2007]

famous bar-restaurant "tre scalini" in centre of Rome

Barman

Mokagest Piazza Fiume [01/2008 – 12/2008]

EDUCATION AND TRAINING

Laurea Triennale In Fisica

Università La Sapienza di Roma [2013 – Current]

Address: Piazzale Aldo Moro 5, 00185 Rome (Italy)

Programming Paradigms for GPU devices, computational science

CINECA consortium [2018]

Address: Via dei Tizi 6/B, Rome (Italy)

<http://www.cineca.it>

MATLAB Fundamentals

MathWorks [11/2018]

Address: Rome (Italy)

Parallel and GPU programming in Python

SURF-SARA [2017]

Address: Science Park 140, 1098 XG Amsterdam (Netherlands)

<http://www.events.prace-ri.eu/event/656>

3rd school on scientific data analysis and visualization

CINECA consortium [2017]

Address: Via dei Tizi 6/B , Rome (Italy)

<https://www.cineca.it/>

Python for computational science

CINECA consortium [2017]

Address: Via dei Tizi 6/B, Rome

<https://www.cineca.it/>

24th summer school on parallel computing

CINECA consortium [2015]

Address: Via dei Tizi 6/B, Rome (Italy)

<https://www.cineca.it/>

Introduction to parallel computing with MPI and OpenMP

CINECA consortium [2015]

Address: Via dei Tizi 6/B, Rome (Italy)

<https://www.cineca.it/>

Introduction to scientific computing in C

CINECA consortium [2014]

Address: Via dei Tizi 6/B, Rome (Italy)

<https://www.cineca.it/>

Introduction to modern FORTRAN

CINECA consortium [2014]

Address: Via Magnanelli 6/3, Casalecchio di Reno (BO) (Italy)

<https://www.cineca.it/>

Introduction to scientific computing in C++

CINECA consortium [2014]

Address: Via dei Tizi 6/B, Rome (Italy)

<https://www.cineca.it/>

Introduction to FERMI BlueGene/Q for users and developers

CINECA consortium [2013]

Address: Via dei Tizi 6/B, Rome (Italy)

<https://www.cineca.it/>

Post-high school degree

ITIS Galileo Galilei [2009 – 2011]

Address: Via Conte Verde 51, 00185 Rome (Italy)

<https://web.uniroma1.it/scuolaingegneriaaerospaziale/chi-siamo/chi-siamo>

ITIS High school diploma in Electronics and Telecommunications

ITIS Galileo Galilei [2009 – 2011]

Address: Via Conte Verde 51, 00185 Rome (Italy)

<http://www.itisgalilei.edu.it>

LANGUAGE SKILLS

Mother tongue(s):

Italian

Other language(s):

English

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Spanish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

DIGITAL SKILLS

Computer science and programming

Fortran / JSON / MATLAB / C / Assembly / Swift / MPI / BASIC / Julia / R / Numba / Pandas / PostgreSQL / openMP / Bash / CUDA / AWK / Python / SQL / XML

Project coordination

Doodle / Zoom / Google Meet / Git / Google Drive / Dropbox / Gitlab / Trello / Github / Skype

Software development

Spyder/Jupyter/Anaconda / intel parallel studio XE / Visual Studio / Xcode / Atom

Network security and containers

pfSense / Docker / unix jail

Office management

Microsoft Office

Operating systems

Linux / UNIX Systems / FreeBSD / Windows / MacOS / MS-DOS / DoS / DIP 211

SOCIAL AND POLITICAL ACTIVITIES

Secretary General at Sapienza Digital Group

[2019 – Current]

My responsibility is to create links with other organizations and experts.

Scout

[AGESCI Roma 62 Scout Group, 09/1994 – 01/2007]

Finished as Old Rover.

Bicycle mechanic

[Sapienza University of Rome, Department of Physics, 09/2012 – 2017]

I taught free courses on bicycle repair and mechanics. I also assisted other students with issues on their bicycles during the week.

LICENSES AND CERTIFICATIONS

Data-driven Astronomy

[24/11/2020 – Current]

A scientific computing course by the University of Sidney, covering the manipulation of large astronomical data using different approaches with Python, SQL-like databases and basics of machine learning.

<https://coursera.org/share/3c9c1a9a017efd9e12a3e62c0d069441>

Course "Cattedra Enrico Fermi"

[09/2018 – 09/2019]

Course on exoplanets and exobiology held by prof. Giovanna Tinetti of University College London.

Mycological training course

[2018]

Held at A.M.E.R. Rome.

Mushroom picking license

[12/2018 – Current]

Released by Regione Lazio, Italy.

Credential Id: RL029712