alessandro.angioi@hotmail.com

+49 176 78805974

Heidelberg, Germany

20 October, 1990

www.angioi.com

linkedin.com/in/aleangioi

github.com/xalelax

SKILLS

C/C++ | Python | Data Visualization | Data Analysis | Git | Problem Solving | SQL | Electronics | Bash

LANGUAGES

English ●●●●●

Italian ●●●●●

German ●●●○○

INTERESTS

Data Science | AI | Big Data | IT | Deep Learning | Blockchain

Dr. Alessandro Angioi

Theoretical Physicist

A committed scientist with proven expertise in solving problems via analytical calculations, computer simulations, and data analysis. Able to communicate complex ideas effectively to professionals with different backgrounds. Passionate about Technology, in particular Computers.

WORK EXPERIENCE

Scientist

Max Planck Institute for Nuclear Physics

10/2014 – Present — *Heidelberg, Germany*

Highlights:

- Analyzed and visualized large data sets, leading to new insights on complex phenomena
- First author of two research articles in prestigious peer-reviewed journals. One article was marked as an "Editors' Suggestion" because of its particular interest, importance, and clarity
- Presented research results at seven conferences, 15+ in-house talks and journal clubs
- Tutored two courses at the University and mentored two high school interns

EDUCATION

Doctor of Philosophy - Physics

Ruprecht-Karls-Universität Heidelberg

10/2014 – 07/2018 — *Heidelberg, Germany*

Graduated magna cum laude

- Studied the complex behavior of particles interacting with strong laser fields with analytical and numerical approaches
- Designed and wrote the entire code base needed for generating and analyzing results, with crucial parts which were parallelized and ran on a Linux cluster

Master's Degree - Theoretical Physics

University of Trieste

12/2012 – 09/2014 — *Trieste, Italy*

Grade: 110/110 magna cum Laude

- Thesis about unexplored properties of a widely-used tool in the study of stochastic processes: the path integral

Bachelor's Degree - Physics

University of Trieste

09/2009 – 11/2012 — *Trieste, Italy*

Grade: 106/110

- Thesis where Bayesian inference and other statistical methods were adopted in order to study large datasets coming from the Large Hadron Collider at CERN
- Seven courses involved working extensively with data and algorithms, and fitting theoretical models with experimental data. One course, 48 hours long, was entirely about Neural Networks

PERSONAL PROJECTS

Angioi.com (10/2018 – Present)

Personal website/blog where I write about science and technology at a semi-technical level.

FIRST-AUTHORED PUBLICATIONS

1. Nonlinear Single Compton Scattering of an Electron Wave Packet
   Paper awarded with an "Editors' Suggestion" label. Published in Phys. Rev. A 93 (2016), 052102.
2. Quantum Limitation to the Coherent Emission of Accelerated Charges
   Published in Phys. Rev. Lett. 121 (2018), 010402.