Curriculum vitae

Matteo Campo

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Date of birth 07/06/1991 | Nationality Italian

SKILLS

Technical

C++, Python, OpenGL, Bash, Git, Latex, Tcl, Awk.
Visual Studio, Vim, Blender, Adobe Photoshop, Microsoft Office.
Windows and Linux.

Analytical

I use an **analytical** approach to **problem-solving** that I developed during my time spent as a researcher. I am proficient in **mathematics** and **physics** at a doctorate level.

Soft

I always maintain a **positive** attitude and **enthusiasm** when working in a **team**.
I am passionate about **learning** and widening my knowledge.

EXPERIENCE

Sep 2015 – Now

Research Assistant (Ph.D. Candidate)

Johannes Gutenberg-Universität Mainz, Germany

Research in computational statistical physics, using **Monte Carlo** and **molecular dynamics** techniques. Thesis title: Slow Dynamics in Colloidal and Biological Matter. Supervisor: Prof. Dr. Thomas Speck.

Teaching assistance for three courses: classical mechanics (2016), electrodynamics (2017), advanced statistical physics (2018). Duties: frontal teaching, grading of homework and exams, tutoring of computational projects.

Expected graduation: Spring 2020

Aug 2017 – Dec 2017

Guest Researcher

Kyoto University, Japan

I wrote software in C++ and Python for simulation of physical systems inspired by biological cells. Supervisor: Prof. Ryoichi Yamamoto.

EDUCATION

Sep 2013 – Jul 2015

Master of Science in Computational Physics

110L/110 cum Laude

Joint Programme (ENS Lyon, VU Amsterdam, Rome La Sapienza)

I studied numerical methods for physics with a particular focus on Monte Carlo and molecular dynamics techniques. Thanks to the many hands-on practical courses, I deepened my expertise in programming languages, in particular C++ and Python.

I received three degrees:

- Master de Sciences de la Matière, ENS Lyon
- Master in Physics, University La Sapienza of Rome
- Master in Chemistry, VU Amsterdam

Thesis Title: "Dynamical phase transition in a dense polydisperse hard-sphere liquid".

Supervisor: Prof. Dr. Thomas Speck, Johannes Gutenberg-Universität Mainz

Oct 2010 – Jul 2013

Bachelor of Science in Physics

110L/110 cum Laude

University of Rome 'La Sapienza' (Italy)

I studied mathematics (linear algebra and geometry, advanced calculus, functional analysis), physics (classical, quantum and relativistic) and computer science (programming in C).
Mention: I received the "**Excellence Programme Completed**" award, which is given to students with outstanding academic performance.

INTERNSHIPS

Lug 2012
Sep 2012

Visiting Student, University of Glasgow (UK)

Research in computational statistics using Bayesian and causal inference methods. Supervisors: Prof. Maurizio Filippone and Prof. Alessandro Vinciarelli.

PUBLICATIONS

- **Campo, Matteo**, and Thomas Speck. "Dynamical coexistence in moderately polydisperse hard-sphere glasses." The Journal of Chemical Physics 152.1 (2020).
- **Campo, Matteo**, Simon Kaspar Schnyder, John Jairo Molina, Thomas Speck, and Ryoichi Yamamoto. "Spontaneous Spatiotemporal Ordering of Shape Oscillations Enhances Cell Migration." *Soft matter* (2019).
- Pinchaipat, R., **Campo, M.**, Turci, F., Hallett, J. E., Speck, T., & Royall, C. P. (2017). Experimental Evidence for a Structural-Dynamical Transition in Trajectory Space. *Physical Review Letters*, 119(2), 028004.
- **Campo, M.**, and Speck T. Polydisperse hard spheres: crystallization kinetics in small systems and role of local structure. *Journal of Statistical Mechanics: Theory and Experiment* 2016.8 (2016): 084007. APA.
- **Campo, M.**, Polychroniou, A., Salamin, H., Filippone, M., & Vinciarelli, A. (2013). Towards Causal Modeling of Human Behavior. In *Neural Nets and Surroundings* (pp. 337-344). Springer, Berlin, Heidelberg.

LANGUAGES

- English: Full professional proficiency
- Italian: Native proficiency
- German: Elementary proficiency
- Japanese: Elementary proficiency

HOBBIES

- Photography, digital and traditional art
- Videogames
- Japanese culture and language
- Cooking
- Hiking