



Matteo Frigo

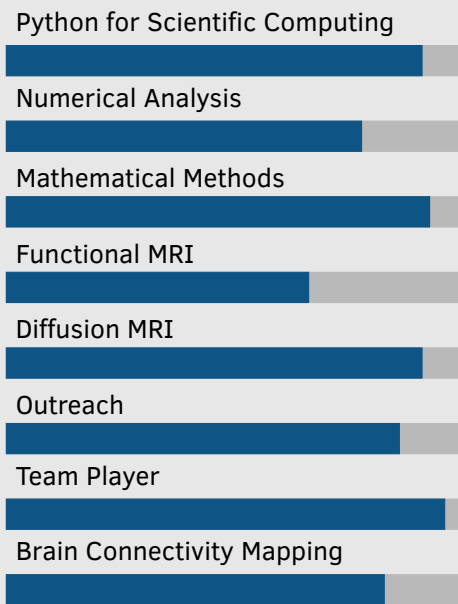
PhD - he/him/his

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About me

I'm a curious and passionate learner with a deep interest for unanswered questions. Drawing from my skills in applied mathematics, I tackle each challenge with an analytical attitude and look for quantitative solutions.

Skills



References

Upon request

Current Position

2021 - now **Senior R&D Scientist** Corsmed AB, Sweden
We develop the leading MRI simulator for education, training and research.

Education

2017-2021 **Ph.D. in Signal Processing** Inria and Université Cote D'Azur, France
Title: *Computational Brain Connectivity Mapping*. I used machine learning and signal processing to investigate problems in the field of magnetic resonance imaging of the human brain.

2014-2017 **B.Sc. + M.Sc. in Applied Mathematics** University of Verona, Italy
Final dissertations: numerical methods for non-smooth convex optimization applied to machine learning in medical imaging (M.Sc.) and Bayesian methods for finance (B.Sc.).

Experience

2021 **Postdoctoral researcher** Inria Sophia Antipolis, France
I developed novel mathematical methods for structural brain network estimation and analysis with diffusion MRI.

2018 & 2021 **Courses taught @ M.Sc. in Mathematics** University of Verona, Italy
Seminar courses: *"Signals, optima and sparse structures: the Python way"* and *"Brain imaging with diffusion MRI"*.

2016-2017 **Internship, then Scientific Assistant** LTS5 Lab @ EPFL, Switzerland
I developed a novel technique based on well-established machine learning concepts that introduced the concept of structured sparsity in the framework of structural brain network estimation.

2011-2016 **Internship** University of Verona, Italy
Several internships in the domains of quantitative finance, machine learning and medical imaging.

Coding

I am highly proficient with Python and the NumPy+SciPy+Matplotlib stack, which I have also used for deploying solutions employed in HPC clusters. I have experience with machine learning libraries such as Pytorch, Scikit-Learn, PyUnLocBox and Copt. I have developed, maintained and contributed to [several projects](#). In the past I also worked with MATLAB/Octave, Java, Sagemath and C++.

Published Works

I published several articles in peer-reviewed scientific journals and in peer-reviewed conference proceedings as first author. See my [Google Scholar profile](#).

Other information

2019- **Associazione Alumni Matematica Verona** Founder and President
I founded the alumni association of the students of mathematics of the University of Verona, Italy. I serve as president of the association.

2014-2016 **University of Verona** Student Representative
I served as a student representative in the pedagogic council of mathematics of the University of Verona, engaging in both strategic and outreach activities.

2001-2012 **World Organisation of the Scout Movement** Boy Scout
I have been a member of the scout movement towards my adolescence and beyond, taking part in national and international volunteering experiences.