

Stefano Brambilla

Engineering Student
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Born: 23/07/1993



Education

- sept.2015 - **Mathematical Engineering MSc**, *Politecnico di Milano*, Computational Science, Specialization in:
dec.2018 *Mathematical and physical modelling for biomedicine*, 26.5/30.
Coursework: Parallel Computing, Advanced Programming for Scientific Calculus, Numerical Analysis of PDE, Biomathematical Modeling, Technology for Regenerative Medicine
- 2012 - 2015 **Mathematical Engineering BSc**, *Politecnico di Milano*, 105/110.
Coursework: Inferential Statistics, Probability, Electronics, Analytic and numerical models for PDE
- 2007 - 2012 **Diploma Liceo Scientifico PNI**, *ISIS Leonardo da Vinci*, Cologno Monzese (MI), Italia, 100/100.

Academy Projects

- dec.2017- **Analysis of coupled problems on a one-dimensional network, with an application to mi-**
currently **crocirculation**, Master Thesis.
- dec.2017- **Dual-based a posteriori error estimators for goal oriented analysis of ADR problems,**
feb.2018 *Numerical Analysis for Partial Differential Equations Project*, Numerical simulations in FreeFem+.
- sept.2016- **A C++ solver for coupled 3D/1D transport problem, Advanced Programming for Scientific**
sept.2017 *Calculus Project*, Written with the GETFEM library for finite element methods..
- oct.2015- **Biham-Middleton-Levine Traffic Model Simulator, Algorithm and Parallel Computing Project,**
feb.2016 Simulator written in C++ and parallelized in Open-Mp and MPI.
- may-sep.2015 **An hyperbolic model for bacterial movement in porous medium**, Undergraduate Thesis.
- june2013- **FuturOil: a smart use for waste oil, Progetto di Economia e Organizzazione Aziendale, Design**
july2013 and realization of the business plan for a startup.
- may2013- **A statistical analysis of the performance of basketball player Kyrie Irving, Progetto di**
june2013 *Statistica*, Analysis with R.

IT Skills

- Advanced C/C++, Matlab, FreeFem++
Basic Office, R, Open-Mp, MPI, Ansys, Phoenix, SQL, Mathematica

Language Skills

- Italian Native Speaker
English C1, IELTS 7.0 (2014)

Open Online Courses

Polimi Open Knowledge, www.pok.polimi.it.

Courses: Managing conflicts, Managing changes, Finanza 101, BetOnMath for Citizens, Engaging students in active learning, To flip or not to flip - Discover the flipped classroom methodology

Coursera, www.coursera.org.

The University of Tokyo: Introduction to game theory

Moscow Institute of Physics and Technology: Building arduino robots and devices

University of Illinois at Urbana-Champaign: The 3D Printing Revolution

Extracurricular Activities

Blood donor, at Cologno Monzese's AVIS, every 3 months.

Educator in local church, actively helped organizing events and voluntary work.

Tutoring, given private Math and Physics lessons.

- Sport Basketball, Running
Interests Comicbooks, Board game, Technology