

INFORMAZIONI PERSONALI

Stefano Carrazza

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TITOLO DI STUDIO

Post Dottorato di Ricerca in Fisica Teorica

ESPERIENZA
PROFESSIONALE

01/10/2018–alla data attuale

Ricercatore

Università degli Studi di Milano, Milano (Italia)

01/10/2015

CERN Fellow

CERN, Geneve (Svizzera)

COMPETENZE PERSONALI

Lingua madre

italiano

Competenze organizzative e
gestionali

- NNPfD R&D Coordinator

- N3PDF R&D Coordinator

Competenze digitali

AUTOVALUTAZIONE

Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Utente avanzato	Utente avanzato	Utente avanzato	Utente avanzato	Utente avanzato

Competenze digitali - Scheda per l'autovalutazione

ALLEGATI

■ cv.pdf

Stefano Carrazza

Curriculum Vitae

Dipartimento di Fisica UNIMI
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Research Interests

Parton distribution functions (PDFs) determination and correlated technologies.
Monte Carlo event generators, simulation/computational tools for high-energy physics.
Machine learning and AI techniques for high-energy physics.

Education

- 2011 → 2014 **PhD in Theoretical Physics**, *Università degli Studi di Milano*, Milan, Italy.
Parton distribution functions with QED corrections.
Advisor Prof. Stefano Forte
- 2009 → 2011 **Master Degree in Physics**, *École Normale Supérieure*, Lyon, France.
Particle physics and quantum field theory.
- 2006 → 2009 **Bachelor Degree in Physics**, *École Normale Supérieure*, Lyon, France.
Physics and matter sciences.

Teaching

- Since 2018 **Corso di informatica**, *Università degli Studi di Milano*.
- November 2017 **Abilitazione scientifica nazionale per la II fascia, settore concorsuale 02/A2**.
art. 16, comma 1, Legge 240/10
- 2012 – 2014 **Quantum Mechanics I-II**, *Università degli Studi di Milano*.
Teaching assistant for the course.
- September 2013 **Mathematics for Biological Sciences**, *Università degli Studi di Milano*.
40 hours of lectures for the 1th year undergraduate students.

Professional Experience

- since October 2018 **Researcher**, *Università degli Studi di Milano*, Milan.
- since June 2017 **NNPDF R&D coordinator**.
- Oct. '15 – Sep. '18 **CERN fellow**, *CERN*, Geneva.
- Nov. '14 – Sep. '15 **Milan university fellow on a European Investment Bank EIBURS grant**, Milan.
- [Visiting Scientist](#)
- Oct. – Dec. 2014 **Visiting PhD student on the aMC@NLO ERC grant.**, *CERN*, Geneva.
- [Internships in Research](#)
- April – August 2011 **Internship and master thesis in Experimental Particle Physics**, *CERN*, Geneva.
Thesis title Strange particle production in heavy-ion collisions with the ALICE experiment at CERN LHC.
Advisors Dr. Cvetan Chechkov and Dr. Peter Hristov
- May – August 2010 **Internship in Particle Physics and Computing**, *CERN*, Geneva.
Thesis title Study of particle identification and jet reconstruction performance of the ALICE detector at LHC.
Advisor Dr. Matevz Tadel
- June – July 2009 **Internship and bachelor thesis in Cavity QED**, *LKB, École Normale Supérieure*, Paris.

Thesis title Non-local fields.
Advisors Prof. Serge Haroche (Nobel Prize in Physics 2012) and Prof. Jean-Michel Raimond
June – July 2008 **Internship in Nonlinear Optics**, *LASIM*, Lyon.
Thesis title Frequency doubling and Hyper Rayleigh scattering.
Advisor Prof. Pierre-François Brevet

Participation in Conferences and Workshops

September 2018 **NNPDF and N3PDF warnup meeting**, Gargnano.
September 2018 **23rd ETSF workshop on electronic excitations**, Milan.
June 2018 **Tsinghua Workshop on Machine Learning in Geometry and Physics**, Sanya.
March 2018 **PDF4LHC**, CERN.
September 2017 **PDF4LHC**, CERN.
August 2017 **ACAT17**, Seattle.
June 2017 **LH 2017**, Les Houches.
January 2017 **Cracow Epiphany Conference**, Cracow.
June 2016 **ICML**, New York.
May 2016 **PP @ LHC 2016**, Pisa.
April 2016 **PDF4LHC**, CERN.
March 2016 **Recontres de Moriond**, La Thuile.
January 2016 **CMS Workshop**, CERN.
October 2015 **PDF4LHC**, CERN.
October 2015 **FCC-hh 100 TeV Workshop**, CERN.
September 2015 **QCD@LHC**, London.
April 2015 **PDF4LHC**, CERN.
February 2015 **Parton Distributions for the LHC**, Benasque.
January 2015 **PDF4LHC**, CERN.
November 2014 **PDF4LHC**, CERN.
June 2014 **XXII Milan European Economy Workshop, EIBURS workshop**, Milan.
May 2014 **PDF4LHC**, CERN.
February 2014 **Les Rencontres de Physique de la Vallée d'Aoste**, La Thuile.
December 2013 **PDF4LHC**, CERN.
April 2013 **DIS2013**, Marseille.
April 2013 **EW/PDF4LHC meeting**, CERN.
March 2013 **Rencontres de Moriond**, La Thuile.
September 2012 **EW/PDF4LHC meeting**, Durham.
May 2012 **EW/PDF4LHC meeting**, CERN.
June 2011 **Quark Matter Annecy 2011**, Annecy.
August 2006 **London International Youth Science Forum**, London.

Talks

18 September 2018 **NNPDF/N3PDF warnup meeting**, *Machine Learning Notes*, Gargnano.
10 September 2018 **23rd ETSF workshop on electronic excitations**, *Machine Learning Overview*, Milan.
14 June 2018 **Tsinghua Workshop on ML**, *Riemann-Theta Boltzmann Machine*, Sanya.
14 June 2018 **Tsinghua Workshop on ML**, *ML and PDFs*, Sanya.
28 March 2018 **PDF4LHC**, *NNPDF3.1luxQED*, CERN.

- 21 August 2017 **ACAT17**, *NNPDF3.1*, Seattle.
- 21 August 2017 **ACAT17**, *ML in HEP-TH*, Seattle.
- 9 January 2017 **Cracow Epiphany Conference**, *Towards NNPDF3.1*, Cracow.
- 18 May 2016 **PP @ LHC 2016**, *Parton Distribution Functions*, Pisa.
- 24 March 2016 **Recontres de Moriond**, *PDF tools for LHC Run II*, La Thuile.
- 28 January 2016 **CMS Workshop**, *Threshold resummation at highest energies*, CERN.
- 9 October 2015 **FC-hh 100 TeV**, *Large x PDFs at 100 TeV*, CERN.
- 1 September 2015 **QCD@LHC**, *On the impact of lepton PDFs*, London.
- 13 April 2015 **PDF4LHC**, *An unbiased Hessian representation of MC PDFs*, CERN.
- 20 February 2015 **Parton Distributions for the LHC**, *CMC-PDFs*, Benasque.
- 3 November 2014 **PDF4LHC**, *Compression of Monte Carlo PDF replicas*, CERN.
- 24 June 2014 **TASI 2014**, *Neural Network PDFs*, Boulder.
- 24 February 2014 **La Thuile 2014**, *PDFs with QED corrections*, La Thuile.
- 13 December 2013 **EW/PDF4LHC**, *APFEL package and interface*, CERN.
- 19 November 2013 **HERAFitter User's meeting**, *APFEL updates and new features*.
- 24 April 2013 **DIS2013**, *Electroweak corrections to parton distributions*, Marseille.
- 17 April 2013 **EW/PDF4LHC**, *NNPDF updates and EW corrections*, CERN.
- 13 March 2013 **Rencontres de Moriond**, *Electroweak corrections to parton distributions*, La Thuile.
- 31 August 2012 **International School Cargese 2012**, *Parton distributions with LHC data*, Cargese.

Participation in Schools

- June 2014 **TASI 2014**, Boulder.
- October 2013 **School of Analytic Computing in Theoretical HEP**, Atrani.
- August 2013 **2013 CERN-Fermilab HCP Summer School**, CERN.
- August 2012 **International School Cargese 2012**, Cargese.
- January 2012 **LHCPhenonet Winter School**, Ascona.

Organization of conferences

- March – April 2018 **IFAE XVII convenor**, University of Milan-Bicocca.

Research outcome

Citation summary: **h-index 21**, *INSPIRE*, 5264 citations from 44 citeable papers, on November 6, 2018.

Articles

- [1] S. Carrazza, D. Krefl, Sampling the Riemann-Theta Boltzmann Machine (2018). [arXiv:1805.07768](#).
- [2] S. Carrazza, R. Frederix, K. Hamilton, G. Zanderighi, MINLO t-channel single-top plus jet, *JHEP* 09 (2018) 108. [arXiv:1805.09855](#), [doi:10.1007/JHEP09\(2018\)108](#).
- [3] R. D. Ball, S. Carrazza, L. Del Debbio, S. Forte, Z. Kassabov, J. Rojo, E. Slade, M. Ubiali, Precision determination of the strong coupling constant within a global PDF analysis, *Eur. Phys. J. C* 78 (5) (2018) 408. [arXiv:1802.03398](#), [doi:10.1140/epjc/s10052-018-5897-7](#).
- [4] D. Krefl, S. Carrazza, B. Haghighat, J. Kahlen, Riemann-Theta Boltzmann Machine (2017). [arXiv:1712.07581](#).
- [5] V. Bertone, S. Carrazza, N. P. Hartland, J. Rojo, Illuminating the photon content of the

- proton within a global PDF analysis, *SciPost Phys.* 5 (2018) 008. arXiv:1712.07053, doi:10.21468/SciPostPhys.5.1.008.
- [6] V. Bertone, S. Carrazza, N. P. Hartland, E. R. Nocera, J. Rojo, A determination of the fragmentation functions of pions, kaons, and protons with faithful uncertainties, *Eur. Phys. J. C77* (8) (2017) 516. arXiv:1706.07049, doi:10.1140/epjc/s10052-017-5088-y.
- [7] R. D. Ball, et al., Parton distributions from high-precision collider data, *Eur. Phys. J. C77* (10) (2017) 663. arXiv:1706.00428, doi:10.1140/epjc/s10052-017-5199-5.
- [8] F. Giuli, et al., The photon PDF from high-mass Drell-Yan data at the LHC, *Eur. Phys. J. C77* (6) (2017) 400. arXiv:1701.08553, doi:10.1140/epjc/s10052-017-4931-5.
- [9] R. D. Ball, V. Bertone, M. Bonvini, S. Carrazza, S. Forte, A. Guffanti, N. P. Hartland, J. Rojo, L. Rottoli, A Determination of the Charm Content of the Proton, *Eur. Phys. J. C76* (11) (2016) 647. arXiv:1605.06515, doi:10.1140/epjc/s10052-016-4469-y.
- [10] S. Carrazza, R. K. Ellis, G. Zanderighi, QCDLoop: a comprehensive framework for one-loop scalar integrals, *Comput. Phys. Commun.* 209 (2016) 134–143. arXiv:1605.03181, doi:10.1016/j.cpc.2016.07.033.
- [11] V. Bertone, S. Carrazza, N. P. Hartland, APFELgrid: a high performance tool for parton density determinations, *Comput. Phys. Commun.* 212 (2017) 205–209. arXiv:1605.02070, doi:10.1016/j.cpc.2016.10.006.
- [12] S. Carrazza, S. Forte, Z. Kassabov, J. Rojo, Specialized minimal PDFs for optimized LHC calculations, *Eur. Phys. J. C76* (4) (2016) 205. arXiv:1602.00005, doi:10.1140/epjc/s10052-016-4042-8.
- [13] S. Carrazza, A. Ferrara, S. Salini, Research infrastructures in the LHC era: a scientometric approach arXiv:1601.03746, doi:10.1016/j.techfore.2016.02.005.
- [14] J. Butterworth, et al., PDF4LHC recommendations for LHC Run II, *J. Phys. G43* (2016) 023001. arXiv:1510.03865, doi:10.1088/0954-3899/43/2/023001.
- [15] S. Carrazza, Parton distribution functions with QED corrections, Ph.D. thesis (2015). arXiv:1509.00209.
URL <http://inspirehep.net/record/1391315/files/arXiv:1509.00209.pdf>
- [16] V. Bertone, S. Carrazza, D. Pagani, M. Zaro, On the Impact of Lepton PDFs, *JHEP* 11 (2015) 194. arXiv:1508.07002, doi:10.1007/JHEP11(2015)194.
- [17] M. Bonvini, S. Marzani, J. Rojo, L. Rottoli, M. Ubiali, R. D. Ball, V. Bertone, S. Carrazza, N. P. Hartland, Parton distributions with threshold resummation, *JHEP* 09 (2015) 191. arXiv:1507.01006, doi:10.1007/JHEP09(2015)191.
- [18] S. Carrazza, S. Forte, Z. Kassabov, J. I. Latorre, J. Rojo, An Unbiased Hessian Representation for Monte Carlo PDFs, *Eur. Phys. J. C75* (8) (2015) 369. arXiv:1505.06736, doi:10.1140/epjc/s10052-015-3590-7.
- [19] S. Carrazza, J. I. Latorre, J. Rojo, G. Watt, A compression algorithm for the combination of PDF sets, *Eur. Phys. J. C75* (2015) 474. arXiv:1504.06469, doi:10.1140/epjc/s10052-015-3703-3.
- [20] V. Bertone, S. Carrazza, E. R. Nocera, Reference results for time-like evolution up to $\mathcal{O}(\alpha_s^3)$, *JHEP* 1503 (2015) 046. arXiv:1501.00494, doi:10.1007/JHEP03(2015)046.
- [21] R. D. Ball, et al., Parton distributions for the LHC Run II, *JHEP* 1504 (2015) 040. arXiv:1410.8849, doi:10.1007/JHEP04(2015)040.

- [22] S. Carrazza, A. Ferrara, D. Palazzo, J. Rojo, APFEL Web: a web-based application for the graphical visualization of parton distribution functions, *J.Phys.* G42 (5) (2015) 057001. arXiv:1410.5456, doi:10.1088/0954-3899/42/5/057001.
- [23] S. Carrazza, J. Pires, Perturbative QCD description of jet data from LHC Run-I and Tevatron Run-II, *JHEP* 10 (2014) 145. arXiv:1407.7031, doi:10.1007/JHEP10(2014)145.
- [24] P. Skands, S. Carrazza, J. Rojo, Tuning PYTHIA 8.1: the Monash 2013 Tune, *European Physical Journal* 74 (2014) 3024. arXiv:1404.5630, doi:10.1140/epjc/s10052-014-3024-y.
- [25] V. Bertone, S. Carrazza, J. Rojo, APFEL: A PDF Evolution Library with QED corrections, *Comput.Phys.Commun.* 185 (2014) 1647–1668. arXiv:1310.1394, doi:10.1016/j.cpc.2014.03.007.
- [26] R. D. Ball, et al., Parton distributions with QED corrections, *Nucl.Phys.* B877 (2) (2013) 290–320. arXiv:1308.0598, doi:10.1016/j.nuclphysb.2013.10.010.
- [27] R. D. Ball, S. Carrazza, L. Del Debbio, S. Forte, J. Gao, et al., Parton Distribution Benchmarking with LHC Data, *JHEP* 1304 (2013) 125. arXiv:1211.5142, doi:10.1007/JHEP04(2013)125.
- [28] R. D. Ball, V. Bertone, S. Carrazza, C. S. Deans, L. Del Debbio, et al., Parton distributions with LHC data, *Nucl.Phys.* B867 (2013) 244–289. arXiv:1207.1303, doi:10.1016/j.nuclphysb.2012.10.003.
- Reports**
- [29] K. Albertsson, et al., Machine Learning in High Energy Physics Community White Paper (2018). arXiv:1807.02876.
- [30] D. de Florian, et al., Handbook of LHC Higgs Cross Sections: 4. Deciphering the Nature of the Higgs Sector (2016). arXiv:1610.07922.
- [31] M. L. Mangano, et al., Physics at a 100 TeV pp collider: Standard Model processes, CERN Yellow Report (3) (2017) 1–254. arXiv:1607.01831, doi:10.23731/CYRM-2017-003.1.
- [32] J. R. Andersen, et al., Les Houches 2015: Physics at TeV Colliders Standard Model Working Group Report, in: 9th Les Houches Workshop on Physics at TeV Colliders (PhysTeV 2015) Les Houches, France, June 1-19, 2015, 2016. arXiv:1605.04692.
URL <http://lss.fnal.gov/archive/2016/conf/fermilab-conf-16-175-ppd-t.pdf>
- [33] Report of the Snowmass 2013 energy frontier QCD working group. arXiv:1310.5189.
- Proceedings**
- [34] S. Carrazza, Machine learning challenges in theoretical HEP, in: 18th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2017) Seattle, WA, USA, August 21-25, 2017, 2017. arXiv:1711.10840.
URL <http://inspirehep.net/record/1639467/files/arXiv:1711.10840.pdf>
- [35] S. Carrazza, N. P. Hartland, Minimisation strategies for the determination of parton density functions, in: 18th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2017) Seattle, WA, USA, August 21-25, 2017, 2017. arXiv:1711.09991.
URL <http://inspirehep.net/record/1639278/files/arXiv:1711.09991.pdf>
- [36] S. Carrazza, Modeling NNLO jet corrections with neural networks, *Acta Phys. Polon.* B48 (2017) 947. arXiv:1704.00471, doi:10.5506/APhysPolB.48.947.

- [37] V. Bertone, S. Carrazza, E. R. Nocera, N. P. Hartland, J. Rojo, Towards a Neural Network determination of Pion Fragmentation Functions, in: Proceedings, Parton Radiation and Fragmentation from LHC to FCC-ee: CERN, Geneva, Switzerland, November 22-23, 2016, 2017, pp. 19–25.
URL http://inspirehep.net/record/1512989/files/1512294_19-25.pdf
- [38] D. de Florian, et al., Handbook of LHC Higgs Cross Sections: 4. Deciphering the Nature of the Higgs Sector, 2016. arXiv:1610.07922, doi:10.23731/CYRM-2017-002.
- [39] S. Carrazza, Z. Kassabov, SMPDF Web: a web-based application for specialized minimal parton distribution functions, in: 7th Workshop italiano sulla fisica pp a LHC (pp @ LHC 2016) Roma, Italy, May 16-18, 2016, 2016. arXiv:1606.09248.
URL <http://inspirehep.net/record/1473186/files/arXiv:1606.09248.pdf>
- [40] V. Bertone, S. Carrazza, Combining NNPDF3.0 and NNPDF2.3QED through the APFEL evolution code, 2016. arXiv:1606.07130.
- [41] S. Carrazza, J. I. Latorre, Towards the compression of parton densities through machine learning algorithms, in: 51st Rencontres de Moriond on QCD and High Energy Interactions La Thuile, Italy, March 19-26, 2016, 2016. arXiv:1605.04345.
URL <http://inspirehep.net/record/1459049/files/arXiv:1605.04345.pdf>
- [42] V. Bertone, S. Carrazza, J. Rojo, Doped Parton Distributions, in: 27th Rencontres de Blois on Particle Physics and Cosmology Blois, France, May 31-June 5, 2015, 2015. arXiv:1509.04022.
- [43] S. Carrazza, Disentangling electroweak effects in Z-boson production, 2014. arXiv:1405.1728.
- [44] S. Carrazza, S. Forte, J. Rojo, Parton Distributions and Event Generators, 2013. arXiv:1311.5887.
- [45] S. Carrazza, Towards the determination of the photon parton distribution function constrained by LHC data, 2013. arXiv:1307.1131.
- [46] S. Carrazza, Towards an unbiased determination of parton distributions with QED corrections, 2013. arXiv:1305.4179.
- Softwares**
- [47] S. Carrazza, D. Krefl, theta: a machine learning framework implementing the Riemann-Theta Boltzmann Machine (December 2017).
URL <http://riemann.ai/theta>
- [48] V. Bertone, S. Carrazza, N. P. Hartland, APFELgrid: a high performance tool for parton density determinations (May 2016).
URL <http://github/nhartland/apfelgrid>
- [49] S. Carrazza, Z. Kassabov, SMPDF Web: a web-based application for specialized minimal parton distribution functions (June 2016).
URL <http://smpdf.mi.infn.it>
- [50] S. Carrazza, D. Palazzo, A. Ferrara, An online cluster for particle physics (October 2014).
URL <http://apfel.mi.infn.it>
- [51] S. Carrazza, A library for filling histograms in monte carlo programs (July 2014).
URL <http://libhfill.hepforge.org>
- [52] V. Bertone, S. Carrazza, J. Rojo, APFEL: A PDF Evolution Library with QED corrections arXiv:1310.1394.

- [53] S. Carrazza, Cavity quantum electrodynamics simulator (July 2009).
URL <http://cqedsimulator.sourceforge.net>
- [54] S. Carrazza, J. Duboisset, Hyper rayleigh scattering computing (July 2008).
URL <http://hrscomputing.sourceforge.net>

Participation in funded grants

- Since 2017 **Scientific Advisory Board**, *NNPDF ERC Advanced grant N.740006*, Stefano Forte, University of Milan.
- Since 2015 **Postdoc**, *HICCUP ERC Consolidator grant N.614577*, Giulia Zanderighi, CERN.
- 2013 – 2016 **Postdoc**, *European Investment Bank EIBURS grant*, Cost/Benefit Analysis in the Research, Development and Innovation Sector, University of Milan.
- 2010 – 2011 **PhD student**, *PRIN 2010-2011*.
University of Milan

Supervision of Students

- 2018 **Alexa Martin**, *NNPDF*, Vising student, Milan.
- 2017 **Omar Pastafiglia**, *Web application for Feynman diagrams*, Bachelor thesis in CS, Milan.
- 2016 **Francesco d'Ambrosio**, *PDF fits with inconsistent data*, Bachelor thesis in physics, Milan.
- 2014 **Fabrizio Cimaglia**, *PDF reweighting*, Bachelor thesis in physics, Milan.
- 2014 **Daniele Palazzo**, *APFEL Web interface to PDFs*, Bachelor thesis in computer sciences, Milan.

Interdisciplinary Activities

- 2013 – 2016 **Cost/Benefit Analysis in the Research, Development and Innovation Sector**, Milan.
The research project "Cost/Benefit Analysis in the Research, Development and Innovation Sector" aims at developing and testing a model for evaluating Big Science. The developed model will enable funding agencies to assess the potential future net social benefits generated by a research infrastructure and the uncertainty and risks associated to it.
- 2013 **Startup & Business Planning**, *SDA Bocconi School of Management*, Milan.
Lectures held by Prof. Cinzia Parolini organized by Start Cup Milano Lombardia 2013 for the finalists of the competition.
- 2009 **Business management: Evolution and Dynamics**, *École Normale Supérieure Lettres et Sciences Humaines*, Lyon.
Special lectures focused in econo-physics techniques to describe and predict the evolution and dynamics of business models, identifying the quality and measuring the efficiency of new business proposals and strategies.

Patents

- 2009 **SHAPE project**, *Participation in WO/2009/125148 for HRS Computing*, Lyon.
HRS Computing is a scientific software that simulates the "Hyper Rayleigh Scattering" (HRS), which is a nonlinear optics phenomenon. It allows the visualization of simulated polar graphics generated by HRS, giving different theoretical coefficients that can be useful to determine the microscopic structure of composites, molecules.

Prices and Awards

- 2017 **Premio Sergio Fubini 2016**, Catania.
INFN CSN4 national price for the best PhD thesis in theoretical particle physics of 2015-2016.
- 2006 **European Union Contest for Young Scientists, Italian section**, Milan.
Participation with the project "Standing Waves" in which an innovative experimental setup was proposed in order to observe and study the propagation of standing waves in the air.

Media and Press

- 2015 **Aragon TV**, *Link to the video (minute 25)*.
Interview during the PDF for LHC workshop in Benasque.
- 2006 **Corriere della Sera**, *Article in an Italian newspaper*.
Interview during the final selection of the competition "I Giovani e le Scienze".

Computer skills

- GitHub: <https://github.com/scarrazza>
- Operating Systems: Linux, Windows, MacOS.
- Languages: C/C++, Fortran, Java, Python, PHP/HTML, BASH, L^AT_EX.
- Libraries: ROOT, Qt, OpenGL, OpenMP, VTK, GTK+, .Net Framework.
- Software: Mathematica, Matlab, Labview, Scilab, Maxima, Sage, Blender.

Entrepreneurship Activities

- Development of a toolbox for sensitivity and risk analysis in technological and scientific investment projects (CSIL).
- Development of Android and Web Applications for the scientific community: Sensorial analysis app for the "Salone Internazionale del Gusto Torino", October 23-27th 2014
- Development of Android applications for general public: statistical calculators and others.

Languages

- Fluent in English, Italian, French, Spanish and Portuguese.

General information

- *Last update: November 6, 2018*
- *Author: Stefano Carrazza*