MAURO FACCIN

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4, Avenue Georges Lemaître
B-1348 Louvain-la-Neuve
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http://maurofaccin.bitbucket.org

ACTUAL POSITION

BigData Group and ICTEAM Institute at U.C. Louvain

Interests/Research line

- Dynamics on and of complex networks
- · Mutual influence of topology and kinetics
- · Markovian and non-Markovian dynamics
- Community and block detection

PROFESSIONAL EXPERIENCE

2015 - today	PostDoc Université Catholique de Louvain (ICTEAM)	Louvain la Neuve, Belgium
2011 2015	•	Tarina Italy
2011 - 2015		Torino, Italy
0006 0044	ISI Fundation	7 6 .
2006 - 2011		Zaragoza, Spain
	Bifi Institute	

FELLOWSHIPS

2015 MOVE-IN Louvain Fellowship (with support of Marie Curie Actions)

MEMBERSHIP

2015 - today	Network Science Society
	Member
2014 - today	Complex Systems Society
	Member
2013 - today	Frontiers in Quantum Computing
	Review Editor

COMMITTEES

2 Jun 2014	Quantum Frontiers for Network Science Organizing committee	NetSci 2014, Berkeley, California
21 Sep 2016	Coarse-graining of Complex Systems Organizing committee	CCS2016, Amsterdam, Netherlands
30 Nov 2016	Complex Networks 2016 Program committee	Milan, Italy
15 Dec 2016	BeNet 2016 Organizing committee	Louvain-la-Neuve, Belgium

TEACHING

2016-2017	LINMA2111 Algorithms and Complexity Université Catholique de Louvain	Assistant Professor
2005	Physics and Math at primary school	Hetauda, Nepal
2004	guide in Science Museum Organizer: INFN	Padova, Italy

Waterloo, Canada

Torino, Italy

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EDUCATION

2011 PhD in Physics University of Zaragoza

supervisor: Pierpaolo Bruscolini

2007 Master in Physics and Technology University of Zaragoza

supervisor: Pierpaolo Bruscolini

2005 MSc in Physics University of Padova

supervisor: Enzo Orlandini

PUBLICATIONS

Chiral Quantum Walks Phys. Rev. A 93, 042302

D. L. Lu, J. D. Biamonte, J. Li, H. Li, T. H. Johnson, V. Bergholm, M. Faccin, Z. Zimborás, R. Laflamme, J. Baugh, and S. Lloyd

Mapping the topography of a protein energy landscape J. Am. Chem. Soc., 2015, 137 (46), pp 14610-14625

R. D. Hutton, J. Wilkinson, M. Faccin, E. M. Sivertsson, A. Pelizzola, A. R. Lowe, P. Bruscolini, L. S. Itzhaki

Community Detection in Quantum Complex Networks Phys. Rev. X 4 (4 2014), p.

M. Faccin, P. Migdał, T. H. Johnson, V. Bergholm, and J. D. Biamonte

Degree Distribution in Quantum Walks on Complex Networks Phys. Rev. X 3 (4 2013),

M. Faccin, T. Johnson, J. Biamonte, S. Kais, and P. Migdał

Quantum Transport Enhancement by Time-Reversal Symmetry Breaking Sci. Rep. 3 (2013). Ed. by NPG, p. 2361

Z. Zimboras, M. Faccin, Z. Kadar, J. Whitfield, B. Lanyon, and J. Biamonte

MS/MS Spectra Interpretation as a Statistical-Mechanics Problem Analytical

Chemistry 85.10 (2013), pp. 4884-4892

M. Faccin and P. Bruscolini

Ground-state spin logic Europhysics Letters 99.5 (2012), p. 57004

J. D. Whitfield, M. Faccin, and J. D. Biamonte

Analysis of the equilibrium and kinetics of the ankyrin repeat protein myotrophin

The Journal of Chemical Physics 134.7, 075102 (2011), p. 075102

M. Faccin, P. Bruscolini, and A. Pelizzola

24-26 May 2013 Degree distribution in quantum complex networks

Ground state spin logic

6-8 Nov 2012

January 24, 2017

CONFERENCES (ORAL CONTRIBUTIONS)

30 Nov-2 Dec 2016	Behind Communities: Dynamics Define Modules ComplexNetworks 2016	Milan, Italy
19-22 Sep 2016	Beyond Communities: Dynamical Markov Modules CCS 2016	Amsterdam, Netherlands
May 30-June 3 2016	Mesoscopic Structure And Diffusion Process Memory NetSci 2016	Seoul, Korea
10-15 Jan 2015	Mesoscopic Structures and Diffusion Process Memory NetSci-X 2016	Wrocław, Poland
2-6 Jun 2015	Structural controllability of EEG temporal causal networks NetSci 2015	Zaragoza, Spain
22-26 Sep 2014	Quantum Approaches to Community Detection ECCS 2014	Lucca, Italy
12-14 Mar 2014	Community detection on quantum systems CompleNet 2014	Bologna, Italy
22-24 Jan 2014	Community Detection on Quantum Systems BIFI2014	Zaragoza, Spain

Tensor Network States and Algebraic Geometry Workshop

IQC workshop on quantum computation and complex networks

2-4 Feb 2011 Equilibrium and kinetics of the ankyrin repeat protein Myotrophin through a simple statiscical mechanical model Zaragoza, Spain V BIFI National Conference

5-7 Feb 2009 Bayesian Characterization of Protein Tandem Mass Spectra Zaragoza, Spain IV BIFI National Conference

8-9 May 2008 Noise description in MSMS mass spectrometry, looking for a de novo sequencing algorithm
San Sebastian, Spain VI Jornadas Aragonesas de Estabilidad y Plegamiento de Proteínas

CONFERENCES (POSTER CONTRIBUTIONS)

23-25 Mar 2016 Memory and Mesoscopic Structures in Diffusion Processes Dijon, France Complenet 2016

7-10 Jul 2010 Folding Pathways Characterization for Ankyrin Repeat Protein Myotrophin Zaragoza,
Spain

IV Spanish Portuguese Biophysical Congress

2-6 Jun 2008 Statistical characterization of fragment ions in MSMS mass spectrometry Sitges,

XXI Sitges Conference on Statistical Mechanics: Statistical Mechanics of Molecular Biophysics

COMPUTER SKILLS

Coding Python, C, C++, Matlab, Fortran

Shell Bash, iPython/Jupyter

Versioning GIT, Subversion, Mercurial

Plotting **Gnuplot, Matplotlib, PGFPlots(latex)**Typesetting **Latex, LibreOffice, MSOffice, Markdown**

Imaging Gimp (Raster), Inkscape (Vectorial), Rawtherapee (RAW)
Web HTML5, CSS/SCSS, static site generators, Wordpress

LANGUAGES

Italian Mother tongue

English Fluent
Spanish Fluent
French Fair

Mauro Faccin

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