MAURO FACCIN Curriculum Vitæ

Euler Building
4, Avenue Georges Lemaître
B-1348 Louvain-la-Neuve
Belgium
mauro.faccin@uclouvain.be
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	•	Torino, Italy
2006 - 2011		Zaragoza, Spain

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	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 NEST	Hetauda, Nepal
2004	guide in Science Museum Organizer: INFN	Padova, Italy

EDUCATION

2011 **PhD in Physics**Supervisor: Pierpaolo Bruscolini

University of Zaragoza

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

Community Detection in Quantum Complex Networks Phys. Rev. X 4 (4 2014), p. 041012

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), p. 041007

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
Chemistry 85.10 (2013), pp. 4884–4892

Analytical

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

CONFERENCES (ORAL CONTRIBUTIONS)

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 BIF12014	Zaragoza, Spain
24-26 May 2013	Degree distribution in quantum complex networks IQC workshop on quantum computation and complex networks	Waterloo, Canada orks
6-8 Nov 2012		Torino, Italy
2-4 Feb 2011	Equilibrium and kinetics of the ankyrin repeat protein Myo	trophin through a simple
	statiscical mechanical model V BIFI National Conference	Zaragoza, Spain
5-7 Feb 2009	Bayesian Characterization of Protein Tandem Mass Spectra IV BIFI National Conference	Zaragoza, Spain

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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,

Spain

XXI Sitges Conference on Statistical Mechanics: Statistical Mechanics of Molecular

Biophysics

COMPUTER SKILLS

Typesetting Latex, LibreOffice, MSOffice, Markdown

Versioning GIT, Subversion, Mercurial

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

Shell Bash, iPython/Jupyter

Imaging Gimp (Raster), Inkscape (Vectorial), Rawtherapee (RAW)

Plotting Gnuplot, Matplotlib, PGFPlots(latex)

Web HTML5, CSS/SCSS, static site generators, Wordpress

LANGUAGES

Spanish Fluent

Italian Mother tongue

French Fair English Fluent

Mauro Faccin

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