Curriculum Vitae

Federico Botta

Personal Data

Name: Botta, Federico
Date of Birth: November 15, 1987
Place of Birth: Como, Italy
Nationality: Italian

Current Address

Centre for Complexity Science
Zeeman Building
University of Warwick
Coventry, CV4 7AL, UK

Personal Contacts

Mobile (Italian): (+39) 338 5201720
Mobile (UK): (+44) 07936 613154
Email (academic): f.botta@warwick.ac.uk
Email (leisure): fede_3x@hotmail.it
Personal Webpage:
warwick.ac.uk/fbotta

Education

10/13-present	**PhD in Complexity Science** **Institution:** University of Warwick, Coventry, UK **Award:** full EPSRC Studentship **Project:** 'Community Detection in Complex Networks' **Supervisor:** Dr. Charo I del Genio (Mathematics Institute and Centre for Complexity Science, University of Warwick)
09/12-09/13	**MSc in Complexity Science** **Degree:** Masters of Science awarded with distinction, 26-09-2013 **Institution:** University of Warwick, Coventry, UK **Award:** partial EPSRC Studentship **1st miniproject:** 'Quantifying Return Distributions in Financial Markets Using High Frequency Data' **Supervisors:** Dr. Tobias Preis (Warwick Business School, University of Warwick), Prof. Eugene Stanley (Center for Polymer Studies, Department of Physics, Boston University)

	2nd miniproject: 'Completion of sub-projects in complex engineering projects' **Supervisors:** Prof. Paul Davies (Royal Academy of Engineering Visiting Professor in Integrated System Design, Loughborough University), Dr. Thomas House (Mathematics Institute and Centre for Complexity Science, University of Warwick), Dr. Colm Connaughton (Mathematics Institute and Centre for Complexity Science, University of Warwick)
11/09-03/12	**MSc in Theoretical Physics** **Degree:** Master of Science, 109/110, 28-03-2012 **Institution:** Università degli Studi di Milano-Bicocca, Milano, Italy **Thesis:** 'Non-relativistic vacua in string theory' **Supervisor:** Prof. Alberto Zaffaroni (Department of Physics, Università degli Studi di Milano-Bicocca)
09/06-10/09	**BSc in Physics** **Degree:** Bachelor of Science, 108/110, 26-10-2009 **Institution:** Università degli Studi di Milano-Bicocca, Milano, Italy **Thesis:** 'Path integrals in quantum mechanics' **Supervisor:** Dr. Alessandro Tomasiello (Department of Physics, Università degli Studi di Milano-Bicocca)
09/01-07/06	**High School Diploma** **Degree:** Scientific high school diploma, 100/100, 07-07-2006 **Institution:** Collegio Gallio, Como, Italy

Areas of interest

Community definition and detection in complex networks, structure of real-world networks, statistical mechanics, connections between statistical physics and networks, big data, computational social sciences, data science, mathematical modelling of real-world systems

Schools and Conferences attended

03/11-04/11	**PhD Lectures** **Title:** 'Dualities in field theories and string theories' **Organiser:** Doctoral School, Università degli Studi di Milano-Bicocca, Milan, Italy **Location:** Università degli Studi di Milano-Bicocca
29/04/13-01/05/13	**Complexity Summer School** **Title:** 'Non-equilibrium statistical mechanics, complex systems and complex networks' **Organiser:** Centre for Complexity Science, University of Warwick, Coventry, UK **Location:** Centre for Complexity Science, University of Warwick
14/05/13-17/05/13	**Complexity Annual Retreat** **Organiser:** Centre for Complexity Science, University of Warwick **Location:** Borrowdale, Keswick, Cumbria (Lake District), UK **Poster session:** presentation of poster 'Quantifying Return Distributions in Financial Markets Using High Frequency Data'
14/08/13-17/08/13	**Student Conference on Complexity Sciences (SCCS)** **Organiser:** Centre for Complexity Science, University of Warwick (joint organisers: Bristol Centre for Complexity Sciences and Institute for Complex Systems Simulation, University of Southampton) **Location:** Oxford Brookes University **Poster session:** presentation of poster 'Quantifying Return Distributions in Financial Markets Using High Frequency Data'
07/10/13-11/10/13	**Network of Excellence Internet Science Summer School** **Title:** 'Behaviour analysis: from human psychology to data mining' and 'Emergence of Networks: from an economical approach to statistical physics' **Organiser:** EINS **Location:** Annecy, France
07/04/14-11/04/14	**European Study Group with Industry, ESGI 100** **Organiser:** University of Oxford, Smith Institute **Location:** University of Oxford

29/04/14- 02/05/14	**Dynamic games and optimisation** **Organiser:** Warwick Mathematics Institute, University of Warwick **Location:** University of Warwick

Teaching Experience

01/14-03/14	**Module:** Big Data Analytics **Degree: MSc** in Finance, Warwick Business School
01/14-03/14	**Module:** Advanced Data Analysis **Degree: MSc** in Management Science and Operational Research, Warwick Business School
01/14-03/14	**Module:** Quantitative Analysis for Management II **Degree: BSc** in Management/International Management, Warwick Business School
01/14-03/14	**Module:** Quantitative Methods for Multivariate Analysis **Degree: BSc** in Management/International Management, Warwick Business School
15/05/14	**Module:** Big Data Analytics **Degree: MBA** in Behavioural Sciences for the Manager, Warwick Business School

Skills

Languages	English (fluent), French (discrete), Italian (first language)
IT	C (good), C++ (good), Matlab (good), Mathematica (good), Phyton (good), R (good), LaTeX (good), Beamer class for presentations (good), prezi.com for presentations (good), Microsoft Office (good), Microsoft Windows (good), Linux-Ubuntu (good)

Certificates

ECDL	European Computer Driving Licence, 2003
Toefl	Test of English as a Foreign Language, 111/120 (C1 level), 15/06/12
edX Certificate	Quantum Mechanics and Quantum Computation, BerkeleyX, 24/10/13
Transferrable Skills	Team Working in a Research Environment, 07/05/14-09/05/14

Date: May 23, 2014

Signed: Federico Botta