PERSONAL INFORMATION

Massimo Bellato

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http://lab-bioinfo.unipv.it/index.php/it/component/content/article/21-phd-stud/61-bellatom

Sex Male | Birth 30/09/1989 | Country Italy

WORK EXPERIENCE

October 2015 - Now

Ph.D. student in Bioengineering and Bioinformatics

University of Pavia, Department of Industrial and Information Engineering

▪ Research in Synthetic Biology field at BMS-Lab (http://lab-bioinfo.unipv.it/index.php/it/).

January 2015 - April 2015

Administrative assistant

University of Pavia, Civil Engineering and Architecture department

▪ Support the Secretariat at the administrative at Di.C.Ar.

Part-time collaboration for students (70 hours)

EDUCATION AND TRAINING

2012 – 2015

Master of Science in Bioengineering curriculum Cells and Tissues

University of Pavia

▪ M.Sc. thesis Title: "Bottom-up design of biological systems: debug of interconnected genetic circuits with unpredicted behaviour via in-vivo and in-silico approaches" in Synthetic Biology, advisor Prof. P. Magni-BMSlab (http://lab-bioinfo.unipv.it/index.php/it/)

Project Experience
2015 "Gene Therapy: Engineered Viral Vectors and Gene Editors ", University of Pavia
• Review on genome editing techniques and gene delivery for gene therapy

2014 "Blast and HMM for Profile Analysis of a Protein Family", University of Pavia
• Validation of several techniques for multiple alignment of protein families from NCBI e Pfam databases

2013 "Classification of malignant breast tumours, from the biopsy cytological database", University of Pavia
• Using methods of data mining to identify biomarkers for cytological discrimination between benign and malignant mammary tumours by biopsy

2013 "Gender Classification in Speech Recognition using Fuzzy Logic and Neural Network", University of Pavia
• Efficiency comparison between several Neural Networks and fuzzy logic.

2008 - 2012

Bachelor in Biomedical Engineering
University of Padua

▪ BSc Thesis title: "The Bose Electroforce system for the characterization of the behaviour under traction stress in bovine and porcine pericardium" biomaterials, advisor Prof. A. Bagno

Publications	▪ Mathematical model-based modular design of genetic circuits to obtain expression systems with predictable mean and cell-to-cell variability of the protein output, BITS 2015: Abstract Book, Milan, 2015
Awards	▪ GNB Award 2015 XXV Edition: Premio "Silvio Cavalcanti", University of Bologna GRUPPO NAZIONALE DI BIOINGEGNERIA for Master Thesis: "Bottom-up design of biological systems: debug of interconnected synthetic genetic circuits showing unpredictable behaviour via in-vivo and in-silico approaches" XXXIV Annual School of National Bioengineering Group GNB, September 2015

PERSONAL SKILLS

Mother tongue	Italian
Other language	English: Cambridge ESOL First Certificate in English (FCE) – B2 level
Communication, organizational and managerial skills	Good communicative and organizational skills for project management and scheduling of work, developed working in laboratories within a team of people with diverse skills and background.
Job-related skills	▪ Professional use of Matlab for data analysis and processing; ▪ Programming Languages: C, Java, Perl; ▪ Open-source systems (Unix-Linux); ▪ Database Management: Microsoft Access and SQL language; ▪ Data-mining software: Orange, Weka; ▪ Computational and data-mining methods (clustering, neural networks, genetic algorithms, decisional trees, K-NN, etc.); ▪ Windows o.s. and Microsoft Office (MS Word, MS Excel, MS PowerPoint, MS Access); ▪ Decisional analysis software: TreeAge, GeNIe; ▪ XML; ▪ Web: HTML and JSP; ▪ Image processing software: ImageJ; ▪ LaTex for technical reports; ▪ Bioinformatics skills and deep knowledge; ▪ Working at BMSlab (http://lab-bioinfo.unipv.it/index.php/it/) i learned several molecular biology protocols (http://openwetware.org/wiki/Magni:Protocols). Moreover, I learned to use Tecan Infinite F200, for cell cultures analysis;
Computer skills	Chief specialist in industrial computing diploma, ITIS "F.Severi" of Padua (2008).
Other skills and hobbies	▪ Music (bass player), kickboxing and alpinism.
Driving licence	A1-B