



Valerio Biscione

Curriculum Vitae

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Education

- 2012–present **PhD student in Psychology**,
Plymouth University.
- 2012–2014 **Collaborating at the Laboratories of Autonomous Robotics and Artificial Intelligence (LARAL)**,
Institute of Cognitive Science and Technology,
National Research Council of Rome.
- 2012 **BSc in Psychology**,
Second University of Naples,
Thesis: *Robots with External Stores*,
110/110 (*First Class*).
- 2008 **Music School Diploma in Piano**,
High Music School G. Martucci, Salerno,
10/10 *cum laude* (*First Class*).
- 2007 **High School Diploma in Undergraduate Industrial Engineer, Specialized in Computer Science**,
B. Focaccia, Salerno,
97/100 (*First Class*).

Expertise

- Computer Skills **Languages:** MATLAB, C++, LISP, Visual Basic, Latex, Python, SPSS,
Other: Deep knowledge of the environment E-Prime, experience with Object Oriented Programming, Functional Programming, design of graphical interfaces
- Mathematical Skills Able to understand and apply concepts of Probabilistic Analysis, Dynamical System (in continuous and discrete time), Stochastic Processes, Linear Algebra, Multi-variable Calculus
- Experimental Skills Able to autonomously design, conduct and analyse the results of psychological studies

Scientific Work

Publications in Journals

- 2015 **Investigating decision rules with a new experimental design: the EX-ACT paradigm**, *Frontiers in Behavioral Neuroscience*. 9:288. doi: 10.3389/fnbeh.2015.00288,
Biscione, V., Harris, C. M..
- 2015 **External Stores: Simulating the evolution of storing goods and its effects on human behaviour**, *Interaction Studies*. Volume 16, Issue 1,
Biscione, V., Parisi, D., Petrosino, G.
- 2015 **Continuous user authentication using multi-modal biometrics**, *Computer & Security*. 06/2015; DOI:10.1016/j.cose.2015.06.001,
Saevanee, H., Clarke, N., Furnell, S., Biscione, V.
- 2014 **Manual choice reaction times in the rate-domain**, *Frontiers in Human Neuroscience*. June, 418,
Harris, C. M., Waddington, J., Biscione, V., and Manzi, S.

Conference Papers

- 2015 **A New Paradigm for Investigating Human Decision Strategy**, *Proceeding of the International Psychological Applications Conference and Trends*. May. Ljubliana, Slovenia. (Poster Presentation),
Biscione, V., Harris, C. M.
- 2015 **Connection Pieron's Law, the Foreperiod Effect and Distribution Shapes in a Simple Reaction Time Task**, *Proceeding of the International Psychological Applications Conference and Trends*. May. Ljubliana, Slovenia. (Oral Presentation),
Biscione, V., Harris, C. M.
- 2014 **Text-Based Active Authentication for Mobile Devices.**, *IFIP Advances in Information and Communication Technology*. Volume 428, 2014, pp 99-112,
Saevanee, H., Clarke, N., Furnell, S., Biscione, V.

Conference without publications

- 2015 **How to investigate decision-making in humans?**, *Plymouth Postgraduate Conference Conference Series*. Plymouth (Oral Presentation),
Biscione, V., Harris, C. M.
- 2014 **Rate Domain Distributions in Simple Reaction Time Task.**, *First Decision Making conference*. Bristol (Oral Presentation),
Biscione, V., Harris, C. M.
- 2014 **Decision Making and Rate of Reward**, *Talk presented at the 6th Annual Plymouth University School of Psychology Conference*. Plymouth (Oral Presentation),
Biscione, V., Harris, C. M.

Teaching Experience

- October 2014 (Demonstrator) SOFT336 - Cross-platform application in C++
January 2013 (Demonstrator) SOFT235 - Object-Oriented Programming in C++

November (Teaching Assistant) AIN503 - Interactive Intelligent Systems Workshop
2013/2014

Personal Projects

- 2014 **Reference Creator (MATLAB)** This software take a text file, it finds the citation (in APA format) in the text, and builds a reference list in APA style using Mendeley database.
This software has been chosen as pick of the week by the MATLAB staff.
<http://reference-creator.psychology-search.com/>
- 2014 **Diffusion Music (MATLAB)** This software generate a music based on a stochastic drift diffusion model.
<https://biscionevalerio.wordpress.com/2015/05/08/diffusion-music/>
- 2013/present **Various MATLAB scripts (MATLAB)** As an active member of the MATLAB community in the top 5% contributors, I coded several MATLAB scripts for scientific research.
<https://uk.mathworks.com/matlabcentral/profile/authors/4488786-valerio-biscione>
- 2012 **Evorobot (C++ with Qt libraries)** During my collaboration in the LARAL in Rome, I developed a new version of Evorobot, a software for evolutionary robotics. I developed a multi-agent version with plenty of new features. My version of EVORBOT is currently used at the LARAL.
- 2011 **Neural Network Library (Common LISP)** This is a project that I developed to improve my abilities with object oriented programming. It is a fully functioning Neural Network Library which allows the user to build its own network by putting together different neurons or groups of layers.
<https://biscionevalerio.wordpress.com/2015/05/11/lisp-neural-network-library/>

Grants Obtained

- May 2015 Grindley Grants for Conference Attendance from the Experimental Psychology Society
- October 2012 Second University of Naples, grant for travel/research at the Institute of Cognitive Science and Technology, Rome

Languages

- Italian **Mothertongue**
English **Fluent** - IELTS: 7.5 (May 2012)

Other

- Music I am a classically trained pianist and I played in several concerts in Italy and UK, both in a solo and group formation. I won several first prize award in piano competitions. I taught piano for several years to youngs and adults
- Curiosity I am a fast typer. My record is 158 words per minute in Italian, and 153 in English