Simone Silvetti
Curriculum Vitae

Personal Information

First name	Simone
Last name	Silvetti
Place and date of birth	Rome (Italy), 5 June 1986
Nationality	Italian

Education

September 2018   **PhD in Computer Science ("Dottorato di Ricerca").**
University of Udine, via Palladio 8, 33100, Udine, Italy
Interests: computational modelling and simulation of complex systems, formal methods and machine learning

Jenuary 2013   **M.A in Mathematics ("Laurea Specialistica").**
University of Rome "La Sapienza", Piazzale Aldo Moro 5, 00185, Rome, Italy
Final paper on Mathematical Physics
Final mark of 110/110

Jenuary 2009   **B.Sc in Mathematics ("Laurea Triennale").**
University of Rome "La Sapienza", Piazzale Aldo Moro 5, 00185, Rome, Italy
Final Paper on Real Analysis
Final mark of 110/110 cum laude

Work Experiences

06/2014 - present   **ESTECO S.p.A.**
Padriciano 99, Trieste, Italy - www.esteco.it
Researcher at Numerical Methods Group

03/2019 - 06/2019   **University of Trieste.**
Piazzale Europa 1, Trieste, Italy
Teacher of "Laboratorio di Programmazione" (Mathematics Course)

03/2018 - 06/2018   **University of Trieste.**
Piazzale Europa 1, Trieste, Italy
Teaching assistant at "Laboratorio di Programmazione" (Mathematics Course)

06/2013 - 06/2014   **AREA Science Park.**
Padriciano 99, Trieste, Italy - www.area.trieste.it
Researcher at Numerical Methods Group of **ESTECO S.p.A** - www.esteco.it
Researches funded by Area Science Park of Trieste

Activity   My research was focused on Support Vector Classification and Response Surface Methods

Publications

[1] Bortolussi L., Policriti A., Silvetti S. (2016) *Logic-Based Multi-objective Design of Chemical Reaction Networks.* In: Cinquemani E., Donzé A. (eds) Hybrid Systems Biology. HSB 2016. Lecture Notes in Computer Science, vol 9957. Springer, Cham

[2] Silvetti S., Policriti A., Bortolussi L. (2017) *An Active Learning Approach to the Falsification of Black Box Cyber-Physical Systems.* In: Polikarpova N., Schneider S. (eds) Integrated Formal Methods. IFM 2017. Lecture Notes in Computer Science, vol 10510. Springer, Cham

[3] Bortolussi L., Silvetti S. (2018) *Bayesian Statistical Parameter Synthesis for Linear Temporal Properties of Stochastic Models.* In: Beyer D., Huisman M. (eds) Tools and Algorithms for the Construction and Analysis of Systems. TACAS 2018. Lecture Notes in Computer Science, vol 10806. Springer, Cham

[4] Nenzi L., Silvetti S., Bartocci E., Bortolussi L. (2018) *A Robust Genetic Algorithm for Learning Temporal Specifications from Data.* In: McIver A., Horvath A. (eds) Quantitative Evaluation of Systems. QEST 2018. Lecture Notes in Computer Science, vol 11024. Springer, Cham

[5] Silvetti S., Nenzi L., Bartocci E., Bortolussi L. (2018) *Signal Convolution Logic.* In: Lahiri S., Wang C. (eds) Automated Technology for Verification and Analysis. ATVA 2018. Lecture Notes in Computer Science, vol 11138. Springer, Cham

[6] Lamp J., Silvetti S., Breton M., Nenzi L., Feng L. (2019) *A Logic-Based Learning Approach to Explore Diabetes Patient Behaviors.* In: Bortolussi L., Sanguinetti G. (eds) Computational Methods in Systems Biology. CMSB 2019. Lecture Notes in Computer Science, vol 11773. Springer, Cham

Visiting

05/2017 - 08/2017	**Vienna University of Technology (TU).** Faculty of Informatics, Group of Asst.-Prof. Dr. Ezio Bartocci

Conference, Workshop and Seminars

10/2018	"Talking about interesting stuff (we hope so)". A joint seminar with L. Nenzi at the Computer Science Department of the Berkeley University, Berkeley, USA
10/2018	"Combining Active learning optimization and Temporal logic for parameter synthesis and falsification of Complex Systems". Seminar at the Computer Science Department of the University of Southern California, Los Angeles, USA
10/2018	"Signal Covolution Logic". International Symposium on Automated Technology for Verification and Analysis , Los Angeles, USA
04/2018	"Bayesian Statistical Parameter Synthesis for Linear Temporal Properties of Stochastic Models". International Conference on Tools and Algorithms for the Construction and Analysis of Systems, Thessaloniki, Grece
04/2018	"An Active Learning Approach to the Falsification of Black Box Cyber-Physical Systems". LiVe Workshop, Thessaloniki, Grece
10/2017	"An Active Learning Approach to the Falsification of Black Box Cyber-Physical Systems". Integrated Formal Methods - 13th International Conference, Turin, Italy
10/2016	"Logic-Based Multi-objective Design of Chemical Reaction Networks." International Workshop on Hybrid Systems Biology, Grenoble, France
10/2016	"Validation of Automotive Control Applications using Formal Methods and metamodeling techniques" International CAE Conference, Parma, Italy

Languages

Italian	**Mother tongue**
English	**Upper-Intermediate (B2)**

Computer Skills

Advanced Programming	Java, Python
Basic Programming	C, JavaScript
Scientific	Matlab/Simulink, Mathematica
Engineering	modeFRONTIER