



Gianpietro Basei

Curriculum Vitae

Personal Information

Address Via Mercatelli, 85 - 31010 Ponte della Priula (TV) - Italy.
Telephone (+39) 347 3823417.
E-mail gianpietro.basei@greendecision.eu - gianpietro.basei@unive.it - gianpietro.basei@gmail.com.
Nationality Italian.
Date of birth April 17, 1987.

Education

- 2015–2019 **PhD in Computer Science**, *Università Ca' Foscari Venezia*, Venice (Italy),
Research topic: "*Computational tools for the safety assessment of engineered nanomaterials*".
Supervisors: Prof. A. Torsello - Prof. A. Marcomini.
- 2012–2015 **MSc Degree in Computer Science**, *Università Ca' Foscari Venezia*,
Thesis title: "*Structural Signatures through Continuous-time Quantum Walks with Decoherence*". Supervisor: Prof. A. Torsello.
Final score: 110/110 with honors
- 2006–2012 **BSc Degree in Computer Science**, *Università Ca' Foscari Venezia*,
Thesis title: "*Implementazione di un algoritmo per la ricerca di pattern frequenti*" (Implementation of an algorithm for Frequent Itemset Mining). Supervisor: Dott. C. Silvestri.
Final score: 99/110
- 2001–2006 **High school certification in Accountancy**, *ITGC L. Einaudi*, Montebelluna (Italy).
Final score: 95/100

Experience

Working experience

- Sep 2018 – **Researcher and developer**, *Greendecision Srl*, Mestre (VE- Italy).
ongoing I currently work at Greendecision Srl, a spin-off off the Ca' Foscari University of Venice. I am involved in different European Projects and I am researching on applying Machine Learning and statistical tools to characterize and assess the risks of nanomaterials.
- Mar 2018 – **Guest scientist**, *Bundesinstitut für Risikobewertung (BfR)*, Berlin (Germany).
May 2018 As part of my PhD, I worked for three months at the German Federal Institute for the Risk Assessment, applying Machine Learning techniques to characterize nanomaterials.
- Jun 2015 – **ICT Analyst**, *Fondazione Università Ca' Foscari*, Venice (Italy).
Dec 2015 Development of an interactive (web-based) application for the evaluation of the public transport service coverage.

Teaching experience

- Feb 2017 – **Teaching Assistant**, *Università Ca' Foscari Venezia*.
May 2017 Teaching assistant of *Istituzioni di matematica con esercitazioni (mod. 2)* (Mathematics, BSc degree in Environmental Science). Instructor: Prof. E. Bertuzzo.

- Sep 2015 – **Teaching Assistant**, *Università Ca' Foscari Venezia*.
 May 2017 Teaching assistant of *Calcolo (online - blended course)* (Mathematics, BSc degree in Computer Science). Instructor: Prof. F. Sartoretto.
- Feb 2014 – **Teaching Assistant**, *Università Ca' Foscari Venezia*.
 May 2017 Teaching assistant of *Calcolo (mod. 2)* (Mathematics, BSc degree in Computer Science). Instructor: Prof. F. Sartoretto.
- Sep 2013 – **Teaching Assistant**, *Università Ca' Foscari Venezia*.
 May 2017 Teaching assistant of *Calcolo (mod. 1)* (Mathematics, BSc degree in Computer Science). Instructor: Prof. F. Sartoretto.
- Partecipation in European Projects**
- Mar 2019 – **NanoInformaTIX - Development and Implementation of a Sustainable Modelling Platform for Nanoinformatics (H2020)**.
 (ongoing) I am involved in NanoInformaTIX EU project (<http://www.nanoinformatix.eu>), developing the NanoInformaTIX platform.
- Jan 2018 – **GRACIOUS - Grouping, Read-Across and Classification framework for regulatory risk assessment of manufactured nanomaterials and Safer design of nano-enabled products (H2020)**.
 (ongoing) I am involved in GRACIOUS EU project (<https://www.nanosafetycluster.eu/eu-nanosafety-cluster-projects/horizon-2020-projects/gracious.html>), developing machine learning models for the Grouping and the Read-Across of nanomaterials, and proposing a Weight of Evidence approach for the classification of hazards of nanomaterials according to the EU CLP regulation.
- Mar 2018 – **NanoToxClass - NANOMaterials, TOXicity, and grouping/CLASSification**.
 May 2018 I marginally contributed to NanoToxClass EU project (<http://www.nanotoxclass.eu/project.html>), by developing models to categorize nanomaterials into active/passive, with respect to their physico-chemical descriptors.
- May 2017 – **caLIBRAte - nano risk governance (H2020)**.
 Oct 2019 I contributed to caLIBRAte EU Project (https://cordis.europa.eu/project/rcn/203256_en.html), helping on the Sensitivity Analysis of SUNDS and on its finalization.
- Sep 2015 – **SUN - Sustainable Nanotechnologies (FP7)**.
 Apr 2017 As part of my PhD I contributed to SUN EU Project (<http://www.sun-fp7.eu/>) by working on the development of SUNDS, a platform to evaluate the Environmental and Human Health risks of ENMs in the complete product life-cycle, integrating within it tools for the quantification of hazard and exposure and the estimation of risks. Moreover, I collaborated on evaluating Risks for Human Health and for the Environment in different case studies.

Publications and Conferences

Articles in peer reviewed journals

- 2019 **G.Basei**, D.Hristozov, L.Lamon, A.Zabeo, N.Jeliazkova, G.Tsiliki, A.Marcomini, and A.Torsello, *Making use of available and emerging data to predict the hazards of engineered nanomaterials by means of in silico tools: a critical review*, *NanoImpact*, Volume 13, January 2019, Pages 76-99, DOI: <https://doi.org/10.1016/j.impact.2019.01.003>
 L.Pizzol, D.Hristozov, A.Zabeo, **G.Basei**, W.Wohlleben, A.J.Koivisto, K.A.Jensen, W.Fransman, V.Stone, A.Marcomini, *SUNDS probabilistic human health risk assessment methodology and its application to organic pigment used in the automotive industry*, *NanoImpact*, Volume 13, January 2019, Pages 26-36. DOI: <https://doi.org/10.1016/j.impact.2018.12.001>
- 2018 A.Brunelli, E.Badetti, **G.Basei**, F.C.Izzo, D.Hristozov, and A.Marcomini, *Effects of organic modifiers on the colloidal stability of TiO₂ nanoparticles. A methodological approach for NPs categorization by multivariate statistical analysis*, *NanoImpact*, Volume 9, January 2018, Pages 114-123, ISSN 2452-0748, <https://doi.org/10.1016/j.impact.2018.03.001>.

D.Hristozov, L.Pizzol, **G.Basei**, A.Zabeo, J.Habicht, N.Neubauer, W.Wohlleben, A.Sanchez Jimenez, E.Semenzin, V.Subramanian, I.Gosens, F.R.Cassee, W.De Jong, S.F.Hansen, A.Mackevica, A.J.Koivisto, K.A.Jensen, V.Stone, A.Marcomini, *Probabilistic Human Health Risk Assessment along the Lifecycle of Copper-Based Wood Preservatives*, *Nanotoxicology*, Volume 12, Issue 7, Pages 747-765, 2018, DOI: 10.1080/17435390.2018.1472314

Selected contributions in international conferences and workshops

2019 **G.Basei**, *nSSWD and its application in SUNDS*, NanoSafety Cluster Week conference, Copenhagen, Denmark, October 7-10.

G.Basei, A.Zabeo, N.Toschi, A.Pietroiusti, L.Pizzol, G.Chiarot, M.Carisi, M.Bañares, D.Hristozov, *The NanoInformaTIX Sustainable Data and Modelling Platform*, NanoSafety Cluster Week conference, Copenhagen, Denmark, October 7-10.

2018 **G.Basei**, A.Bahl, A.Haase, D.Hristozov, A.Zabeo, A.Marcomini, and A.Torsello, *Subspace Clustering as a tool for the Read-Across and Categorization of Nanomaterials*, 3rd Nanosafety Forum for Young Scientists, La Valletta, Malta, September 10-11.

G.Basei, D.Hristozov, L.Lamon, A.Zabeo, N.Jeliazkova, G.Tsiliki, A.Marcomini, and A.Torsello, *Making use of existing and emerging data to predict the hazards of engineered nanomaterials: a critical review*, 3rd Nanosafety Forum for Young Scientists, La Valletta, Malta, September 10-11.

Other activities in international conferences and workshops

2019 Co-chair of session *Categorization and grouping of nanomaterials*, NanoSafety Cluster Week conference, Copenhagen, Denmark, October 7-10.

Personal skills and competences

Languages

Italian **Mothertongue**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	A2	A2	A2	A2	A2

Computer skills and competences

Operating Systems Advanced: Microsoft Windows, Linux.
Intermediate: Mac OS X.

Programming languages Advanced: *C, Java, Matlab, PHP, JavaScript, SQL, Python* and *R*. Basic: *F#, C++, ASP* and *Fortran*.

Applications Advanced knowledge of *Microsoft Office* suite (and of its open-source counterparts), basic knowledge of *Adobe Photoshop* and *Gimp*.

Others Advanced knowledge of *HTML, CSS* and \LaTeX .

Additional information

Referee Since January 2008 I am an AIA (Associazione Italiana Arbitri) Referee.
Driving licence B

