

# GIORGIA DANESI'S CURRICULUM VITAE

UPDATED: February 7, 2021

## PERSONAL DATA

Nome e cognome: Giorgia Danesi  
Data di nascita: Aprile 2, 1998  
Luogo di nascita: Brescia, Italy  
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E-mail: giorgiadanesi@hotmail.it  
Abitazione: Ospitaletto (BS), 25035, Italy

## POSIZIONE ATTUALE

<b>Studentessa di Laurea Magistrale</b> di Scienze Pedagogiche al <b>Dipartimento di Scienze Umane e Sociali</b> Università degli studi di Bergamo	da Ottobre 2020 a Presente
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## POSIZIONI PASSATE

<b>Insegnante</b> alla <b>Scuola dell'Infanzia statale G. Tovini</b> Ospitaletto, Brescia	da Ottobre 2020 a Giugno 2021
<b>Educatrice</b> Ospitaletto, Brescia <ul style="list-style-type: none"><li>Attività di supporto allo studio</li><li>Attività di metodologia didattica con l'utilizzo di strumenti compensativi per ragazzi con DSA</li></ul>	da Ottobre 2017 a Presente

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EDUCATION

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**Master's degree in Computer Science**, University of Bergamo, Italy 110L/100  
*Development of a Knowledge Management Web Platform with an Innovative ML Algorithm based on Tag Searching* Mar 2018

**Bachelor's degree in Computer Science**, University of Bergamo, Italy 105/100  
*Development of a library for Mobile Robot Trajectory Control* Sep 2015

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POST-GRADUATE EDUCATION

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## Ph.D. Courses in:

- *Nonlinear System Identification* Politecnico of Milan, Italy  
**Proff. L. Piroddi, S. Formentin, S. Garatti, G. Panzani and L. Fagiano** 48h, Jan 2019
- *Optimization Models and Algorithms* University of Bergamo, Italy  
**Prof. M. T. Vespucci** 24h, Jul 2019
- *Advanced Mathematical Methods for Engineering* University of Bergamo, Italy  
**Proff. M. Pedroni and A. Raimondo** 24h, Oct 2019
- *Advanced Numerical Methods for Engineering* University of Bergamo, Italy  
**Prof. C. Vergara** 20h, Nov 2019
- *Noise and Vibration Control Engineering* University of Brescia, Italy  
**Prof. N. B. Roozen** 15h, Nov 2019
- *Statistical Signal Processing in Engineering* Politecnico of Milan, Italy  
**Prof. U. Spagnolini** 26h, Jan 2020
- *Numerical Methods for Optimal Control* IMT School for Advanced Studies Lucca, Italy  
**Prof. M. Zanon** 30h, May 2020
- *Advanced English Course* University of Bergamo, Italy  
**Prof. S. J. Kingshott** 16h, Jun 2020
- *Optimization Models and Algorithms* University of Bergamo, Italy  
**Prof. M. T. Vespucci** 15h, Jun 2020
- *Advanced methods for system identification* University of Bergamo, Italy  
**Prof. M. Mazzoleni** 20h, Jul 2020
- *Model Predictive Control* Politecnico of Milan, Italy  
**Proff. M. Farina, R. Scattolini and L. Fagiano** 26h, Sep 2020
- *Algorithmic Game Theory* University of Bergamo, Italy  
**Prof. N. Gatti and Dr. A. Marchesi** 16h, Oct 2020
- *Applied Functional Analysis and Machine Learning* University of Padova, Italy  
**Prof. G. Pillonetto** 16h, Nov 2020
- *Applied Linear Algebra* University of Padova, Italy  
**Prof. L. Schenato** 16h, Nov 2020

## Ph.D. Schools &amp; Workshops in:

- *EECI-IGSC 2019 – Model based Fault Diagnosis using a MATLAB Linear Framework* University of Padova, Italy  
**Proff. A. Varga and D. Ossmann** 48h, Mar 2019
- *Machine Learning: A Computational Intelligence Approach* University of Genova, Italy  
**Proff. F. Masulli and S. Rovetta** 20h, Jun 2020
- *RegML 2020 – Regularization Methods for Machine Learning* University of Genova, Italy  
**Prof. L. Rosasco** 20h, Jun 2020
- *IFAC 2020 – Set-based Methods in Estimation and Control* International Federation of Automatic Control (Virtual)  
**Proff. R. Paulen, M. E. Villanueva and B. Chachuat** 6h, Jul 2020
- *SPRING-ID 2021 – Data-driven Model Learning of Dynamic Systems* École de Lyon (Virtual)  
**Proff. B. Xavier and P. Van den Hof** 20h, Apr 2021

## Ph.D. Seminars in:

- *Optimization and control of airborne wind energy systems*
- *Identification for Control*
- *Fault diagnosis application in industry and mechatronics*
- *Kernel-based learning for system identification*

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## TEACHING EXPERIENCE

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**Lecture Assistant** of the following **MSc courses** at the University of Bergamo:

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| <ul style="list-style-type: none"> <li>• <i>Controlli Automatici</i> A.Y. 2018/2019</li> <li>• <i>Controlli Automatici</i> A.Y. 2019/2020</li> <li>• <i>Dynamic System Identification</i> A.Y. 2019/2020</li> <li>• <i>Controlli Automatici</i> A.Y. 2020/2021</li> <li>• <i>Identificazione dei Modelli ed Analisi dei Dati</i> A.Y. 2020/2021</li> </ul> | <ul style="list-style-type: none"> <li>italian, 20h, Sep – Dec 2018</li> <li>italian, 12h, Sep – Dec 2019</li> <li>english, 18h, Jan – Jun 2020</li> <li>italian, 12h, Jan – Jun 2021</li> <li>italian, 12h, Jan – Jun 2021</li> </ul> |
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**Co-advisor** of the following **MSc theses** at the University of Bergamo:

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| <ul style="list-style-type: none"> <li>• <i>Sviluppo preliminare di un sistema di health monitoring per un attuatore elettromeccanico</i><br/>Advisor: prof. F. Previdi</li> <li>• <i>Data-driven health monitoring di attuatori elettromeccanici per automazione industriale</i><br/>Advisor: prof. F. Previdi</li> <li>• <i>Simulatore elettro-termo-meccanico di strisce bimetalliche per interruttori industriali a bassa tensione</i><br/>Advisor: prof. F. Previdi</li> <li>• <i>Predizione della vita utile residua di valvole elettropneumatiche usando tecniche di machine learning</i><br/>Advisor: prof. F. Previdi</li> <li>• <i>Modellazione, simulazione ed auto-tuning di fine linea per interruttori industriali a bassa tensione</i><br/>Advisor: prof. F. Previdi</li> </ul> | <ul style="list-style-type: none"> <li>Students: Davide Palazzini, Alen Preda</li> <li>Students: Davide Presciani, Matteo Gusmini</li> <li>Student: Paolo Pasinetti</li> <li>Student: Angela Pomata</li> <li>Student: Simone Zanni</li> </ul> |
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## PUBLICATIONS

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### International conferences

- [C01] M. Mazzoleni, M. Scandella, L. MAURELLI, F. Previdi.  
*Mechatronics applications of condition monitoring using a statistical change detection method.*  
 Accepted for publication to 21st IFAC World Congress, Berlin, Germany, July 12-17, 2020
- [C02] L. MAURELLI, M. Mazzoleni, F. Previdi.  
*Modeling and simulation of bimetallic strips in industrial circuit breakers.*  
 Submitted to 19th IFAC Symposium on System Identification, (Virtual) Padova, Italy, July 14-16, 2021

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## COMPETENCES

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### Waiver

I authorize the treatment of my personal data in compliance with the Italian Legislative Decree 196/2003 and the article GDPR 679/16 - “European regulation on the protection of personal data”