



# Andrea Brilli

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Date of birth: 13/12/1996 | [brilli@diag.uniroma1.it](mailto:brilli@diag.uniroma1.it) |

<https://www.linkedin.com/in/andrea-brilli-161934199/>

## EDUCATION AND TRAINING

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11/2021 – CURRENT – Roma, Italy

**PH.D. PROGRAM IN OPERATIONS RESEARCH** – Sapienza University of Rome

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Supervisors: Giampaolo Liuzzi, Stefano Lucidi.

Research interests:

- Derivative-free optimization
- Non-smooth optimization

22/10/2019 – 10/2022 – Roma, Italy

**MASTER DEGREE IN MANAGEMENT ENGINEERING** – Sapienza University of Rome

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**Thesis:** An interior penalty method for black-box constrained optimization

110/110 cum laude

01/09/2015 – 22/10/2019 – Roma, Italy

**BACHELOR DEGREE IN MANAGEMENT ENGINEERING** – Sapienza University of Rome

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## WORK EXPERIENCE

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07/2021 – 12/2021 – Roma, Italy

**SVILUPPATORE DI SOFTWARE/SOLUZIONI** – SELF-EMPLOYED

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Supply chain management optimization for a distribution chain in Europe.

My activities are:

- Data analysis;
- Finding and adapting operations research models to be applied in order to improve cost and service performances;
- Software implementation of selected models;
- AI models for forecasting.

2014 – CURRENT – Roma, Italy

**PRIVATE TUTOR** – SELF-EMPLOYED

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I teach math, physics and chemistry to middle and high school students.

I teach calculus, linear algebra and operations research to university students.

01/2017 – 07/2018 – Roma, Italy

**SOUND TECHNICIAN ASSISTANT AND BACKLINER** – SALA RAFFAELLO

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## PUBLICATIONS

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**An interior point method for nonlinear constrained derivative-free optimization**

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<https://arxiv.org/abs/2108.05157> – 2021

## HONOURS AND AWARDS

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20/05/2020

### Secondo Classificato – The Business Game

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I and my team achieved 2nd place in the National University Management Competition.

<https://www.linkedin.com/feed/update/urn:li:activity:6668929015404875777/>

08/06/2020

### CyberChallenge2020 Attendee – CINI Cybersecurity National Lab

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Attendee for the CyberChallenge training programme organized by the CINI (Consorzio interuniversitario Nazionale per l'Informatica) in collaboration with the Ministry of Defence and the SISR (Sistema di Informazione per la Sicurezza della Repubblica)

<https://www.linkedin.com/feed/update/urn:li:activity:6698600548255461376/>

## DIGITAL SKILLS

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Python | Librerie Python(Numpy, Pandas, Scipy, Matplotlib, Autograd, Scikit-learn) | MATLAB | Pytorch | Microsoft Word | Microsoft Excel | Microsoft PowerPoint | Latex

## LANGUAGE SKILLS

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Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user