

Valerio Stacchini

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With genuine enthusiasm for physics and solar cells, I'm pursuing an exciting career in renewable energy. My curiosity, backed by a solid background in chemistry, physics, and engineering, drives me to pioneer innovative solutions. Committed to advancing solar technology, I aim to make a positive impact on our sustainable future. Genuine enthusiasm for physics and solar cells defines my passion for a career in renewable energy. My foundation in chemistry, physics, and engineering propels my drive for pioneering innovative solutions. With a deep commitment to advancing solar technology, I am poised to contribute significantly to our sustainable future.

EXPERIENCE

Helmholtz Zentrum Berlin

PhD

Berlin, Germany

Sept 2022 - ongoing

Thesis Project: "Investigation on Self-Assembled Monolayers for lead-free perovskite solar cells"

- Trained and mentored new members of staff, resulting in full integration in the laboratories and the team.
- Introduced Slack and other tools for internal team communications, improving workflow.
- Achieved significant time savings by addressing bottlenecks in laboratory activities.

Helmholtz Zentrum Berlin

Master Thesis – Working Student

Berlin, Germany

Sept 2021 – July 2022

Thesis Project: "Halogen bond-donor amino acid in perovskite solar cells"

- Proficient in operating a wide range of laboratory equipment, especially transient surface photovoltage characterization of interfaces (also: Spin Coating, Dip Coating, Thermal Evaporation, Photoluminescence Spectroscopy, XRD)
- Demonstrated ability to handle and maintain equipment effectively, ensuring accurate and reliable experimental results.
- Trained and mentored a bachelor student throughout his thesis project, encompassing both practical and theoretical guidance.
- Coordinated and executed company-wide events to enhance team cohesion, promote morale, and facilitate inter-departmental networking.

IIT – Italian Institute of Technology | Collaboration with Politecnico di Milano

Bachelor Thesis – Working Student

Milan, Italy

Feb 2016 – Jun 2016

Thesis Project: "Ceramic nano-coating for nuclear applications"

- Investigated and analysed potential advancements to ensure safer nuclear plant operations.
- Conducted hands-on research focused on materials for enhanced safety in nuclear plants.

EDUCATION

Politecnico di Milano

MSc - Nanotechnology and Nanomaterials Engineering

Milan, Italy

Sept 2019 - July 2022

• **Final Grade:** 107/110

• **Relevant coursework:** Semiconductors Physics, Photovoltaic Energy Conversion, Quantum Physics, Physical Chemistry

Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia

Erasmus Program - Exchange Student

Lisbon, Portugal

Jan 2020 – Jul 2020

• Entirely in Portuguese

Politecnico di Milano

BSc - Nanotechnology and Nanomaterials Engineering

Milan, Italy

Sept 2016 - July 2019

• **Final Grade:** 99/110

SKILLS & INTERESTS

- **IT Skills:** Advanced Knowledge of Excel, PowerPoint, OriginLab, ImageJ and Blender. Advancing Python Proficiency.
- **Languages:** Fluent in Italian and English. Fluent Spanish (Strong Command, Some Refresher Needed). Beginner level in Portuguese and German.
- **Extracurriculars:** Engaged in volunteering activities in Peru in the cities of Lima and Cañete, participating in building schools and houses for local communities affected by earthquake. Took part in other volunteering activities in Milan and Rome.
- **Interests:** Sailing enthusiast since age 4, with extensive experience on various types of boats. Passionate about mastering diverse sea conditions, excelling in risk assessment during route planning.