Stanford

Filippo Balzaretti

Postdoctoral Scholar, Photon Science, SLAC

Curriculum Vitae available Online

Bio

BIO

I like to define myself as an aspiring 360° scientist. What does that mean? Well, that it is a strong wish of mine to collect as much knowledge as possible in what are (at least in my opinion) the three main fields of science: Mathematics, Physics and Chemistry.

This is why, after having received my Master in Mathematics at the University of Turin, Italy, I worked as a Ph.D. student in Physics at the University of Bremen, Germany. Recently I've been hired from the University of Stanford to proceed my academic path with a Post-doc position at the SUNCAT Center for Interface Science and Catalysis.

I will put all my efforts to provide the scientific community with important insights and discoveries.

PROFESSIONAL EDUCATION

- Master of Science, University of Turin (2016)
- Doctor of Science, Universitat Bremen (2021)
- Bachelor of Science, University of Turin (2014)

STANFORD ADVISORS

- Johannes Voss, Postdoctoral Research Mentor
- Thomas Jaramillo, Postdoctoral Faculty Sponsor

COMMUNITY AND INTERNATIONAL WORK

- Erasmus Student, Osnabrueck, Germany

LINKS

- LinkedIn: https://www.linkedin.com/in/filippo-balzaretti/

Research & Scholarship

RESEARCH INTERESTS

- Achievement
- Data Sciences
- Math Education
- Motivation

- Professional Development
- Research Methods
- Science Education
- Teachers and Teaching
- Technology and Education

Publications

PUBLICATIONS

- **Halide-sodalites: thermal behavior at low temperatures and local deviations from the average structure** *ZEITSCHRIFT FUR KRISTALLOGRAPHIE-CRYSTALLINE MATERIALS*
  Wolpmann, M., Etter, M., Kirsch, A., Balzaretti, F., Dononelli, W., Robben, L., Gesing, T. M.
  2022
- **NO Degradation on the Anatase TiO2 (001) Surface in the Presence of Water** *JOURNAL OF PHYSICAL CHEMISTRY C*
  Gupta, V., Balzaretti, F., Guo, P., Koeppen, S., Frauenheim, T., Dominguez, A.
  2022; 126 (41): 17544-17553
- **Water Reactions on Reconstructed Rutile TiO2: A Density Functional Theory/Density Functional Tight Binding Approach** *JOURNAL OF PHYSICAL CHEMISTRY C*
  Balzaretti, F., Gupta, V., Ciacchi, L., Aradi, B., Frauenheim, T., Koeppen, S.
  2021; 125 (24): 13234-13246