

Katia VERBEKE 26 years old French

Contact

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10 rue de Mérignac 33000 Bordeaux

Personal commitments

- 2021: Administration member of the EIDD Bureau des Jeux
- 2020 -2021: Event unit supervisor of the EIDD student council

Languages

Fluent french

• English C1, TOEIC: 910

• Russian: Basic communication skills

References

References available on request.

Interests

- Sport: Vovinam Viet Vo Dao (five years of practice)
- Astronomy: Kourou (Guyane) space agency visit, Floirac (France) Observatory visit
- · Aeronautics: Aeronautics Initiation Certificate
- Travel: Guyane, Japan, Italy, Spain

I am searching for a Post Doctoral position related to space science.

I am curious and dynamic. I have experience in cold atom physics for atom interferometry used in gravitational waves detection.

Education / Qualifications:

 PhD: ADVANCED ATOM GRADIOMETRY IN AN OPTICAL CAVITY Institut d'Optique Graduate School, Laboratoire Photonique,

Numérique et Nanosciences, Bordeaux • 2023

Elaboration of an atom interferometry test bench system to detect gravitational waves

- ENGINEERING SCHOOL: MATERIALS AND NANOTECHNOLOGY
 École d'Ingénieurs Denis Diderot (EIDD), Paris 2019-2022
 Study of matter from atomic to macroscopic scale
- PREPARATORY SCHOOL IN PHYSICS AND CHEMISTRY Lapérouse high school, Albi • 2016 - 2019
- COAUTHOR in the article 'Picosecond acoustics: a new way to access elastic properties of materials at pressure and temperature conditions of planetary interiors", Silvia Boccato, Physics and Chemistry of Minerals, Springer Nature, 2022

Work experiences:

Teacher for the INSTITUT D'OPTIQUE GRADUATE SCHOOL

• 40 hours of teaching, leading a project aiming to elaborate a telemeter

Quality engineer at SAFRAN ELECTRONICS & DEFENSE (ALTEN) Massy, 2022-2023

 Monitoring and directing compliance with standards for aeronautical systems

ARIANEGROUP

Physico-chemical analyses service, St Médard en Jalles, 2022

 Project management: development of new physico-chemical analyses methods, for the defense domain.
 I developed three new methods allowing to analyze kinetics and

INSTITUT DE MINÉRALOGIE, DE PHYSIQUE DES MATÉRIAUX ET DE COSMOCHMIE

Team Minéralogie, Pétrologie et Physique Planétaire, Paris, 2021

 Study of materials properties at extreme thermodynamic conditions, reproducing planetary interiors to discover their composition.
 I developed a new experimental technique, allowing to combine picosecond acoustics to high pressure and high temperature.

LABORATOIRE FEMTO-ST

purity of components.

Micro Nano Sciences et Systèmes departement, Montbéliard, 2020

 Study of matter at nano and atomic scale, helped by a Scanning Tunneling Microscope and an Atomic Force Microscope (AFM).

Skills:

SOFTWARE: C language, Python language, Mathematica, Matlab, Microsoft office THEORETICAL:

- Quantum physics used for atom interferometry, quantum chemistry
- Optics, nano-optics
- Laser science
- · Gradiometry systems
- . Metrology: Interferometric systems configurations

TECHNICAL:

- Laser manipulation
- Electronics: analyses, soldering
- · Opto-electronics circuit establishement as radio frequency chain
- Characterization: Atomic Force Microscope
- Team spirit: lead a group / be a part of a group