

Alexandre Belli - Ph.D.

Washington D.C. | 2022946313 | alexandre.belli@mg.thedataincubator.com
linkedin.com/in/alexandrebelli | github.com/alexandrebelli | www.alexandrebelli.com

Experience

NOAA

January 2021 – Ongoing

National Academies of Sciences postdoctoral fellow

- Investigation of GNSS orbits
- Organizer of a monthly group meeting discussing a new software calculating GNSS orbits

NASA

January 2018 – January 2021

NASA Postdoctoral Program Fellow

- I led a project on reducing systematic errors on an Earth observation satellite's orbit and its tracking network
- Satellite Data collection, cleaning, analysis, and visualization with Python (NumPy, Matplotlib, Pandas)
- Statistical Analysis of the scientific results, followed by presentations in front of various audiences

Technical Skills

DATA SCIENCE: Pandas | SciPy | Data Visualization (Matplotlib) | NumPy | Dabbled in Scikit-learn

PROGRAMMING LANGUAGES: Python | Bash | LATEX

LANGUAGES: French (native) | English (Fluent) | Italian (beginner)

COMMUNICATION: PowerPoint/Keynote | 6 refereed articles | 4 Non-refereed articles | 19 Talks/Seminars/Posters

Education

PhD in Astrophysics | University of Franche Comté (France) in Astrophysics | February 2017

MS in Planetary Sciences | University Paris Sud XI | June 2013

MS in Astrophysics | University Paris Sud XI | June 2012

BS in Fundamental Physics | University Paris Sud XI | June 2010

Key Publications

LONG-TERM BEHAVIOR OF THE DORIS OSCILLATOR UNDER RADIATION: THE JASON-2 CASE

July 2018. A. Belli et al., IEEE.

IMPACT OF JASON-2/T2L2 ULTRA-STABLE-OSCILLATOR FREQUENCY MODEL ON DORIS STATIONS COORDINATES AND EARTH ORIENTATION PARAMETERS.

December 2020. A. Belli et al., Advance in Space Research.