

RYAN BOUKROUCHE

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I am a PhD student at the University of Oxford working on modeling the properties and evolution of rocky exoplanet atmospheres. I am looking to offer my skills to a position involved in planetary and exoplanetary climate characterization and future observations.

EDUCATION

DPhil in Atmospheric, Oceanic, and Planetary Physics <i>Climates of exoplanets</i> University of Oxford	Oct. 2018 – Ongoing Oxford, United Kingdom
M.S 2nd year Planetary Sciences and Space Exploration Sorbonne Université, <i>With high honours</i>	Sep. 2017 – Jun. 2018 Paris, France
M.S 1st year Applied Physics Université Pierre et Marie Curie	Sep. 2016 – Jun. 2017 Paris, France
B.S Physics <i>Major: Physics, Minor: Mathematics</i> Université Pierre et Marie Curie, <i>With honours</i>	Sep. 2015 – Jun. 2016 Paris, France
Classes Préparatoires aux Grandes Écoles - Maths, Physics, Engineering Sciences Lycée Claude Fauriel	Sep. 2013 – Jul. 2015 Saint-Etienne, France
French General Scientific Baccalaureate Lycée Jean-Monnet, <i>With highest honours</i>	Jun. 2013 Saint-Etienne, France

WORK EXPERIENCE

Teacher at Oxbridge Academic Programs Cambridge University	09 July 2021 – 24 July 2021 Cambridge, UK
<ul style="list-style-type: none">Constructed a quality syllabus and associated budget for a two-week course aimed at students from high school to Masters level. This course was structured to give students an understanding of the history and current state of research in Planetary Science and Astrobiology.Taught a Major class to international students aged 13 to 17, six mornings a week from 9.00am to 12.30pm and three afternoons a week from 2.00pm to 4.00pm, for a total of 45.5 in-class hours.Helped organise and implement the arrival and departure of students from and to their home countries.Organised two guest speaker lectures and a visit to the Sedgwick Museum of Earth Sciences, Cambridge.Examined the students by taking into account academic skills, improvement, participation, and effort.Submitted grades and short reports for every student at the end of the course.	
Research intern LESIA - Observatoire de Paris	15 March 2018 – 27 July 2018 Paris, France
<ul style="list-style-type: none">Explored the grain properties of the dust-rich debris disk HD141569 with observations from the SPHERE observatoryWorked in the IDL language and used various data analysis techniques to interpret the observationsParticipated in an international collaboration that produced a publication	
Research intern Institute for Geophysics and Meteorology of Cologne	17 April 2017 – 21 July 2017 Cologne, Germany
<ul style="list-style-type: none">Developed a model to simulate Uranus' multipolar magnetic fieldPerformed magnetohydrodynamic simulations of Uranus' magnetic environment	
Research intern Institut de Physique du Globe de Paris	11 January 2016 – 15 April 2016 Paris, France
<ul style="list-style-type: none">Quantified the soil surface roughness of selected terrains in Reunion Island and in the Asal-Ghoubbet Rift, Republic of DjiboutiPerformed photogrammetry experiments, analyses of Digital Terrain Models, and calculations of fractal dimensions using MATLAB	

SKILLS

Languages: French (Native), English (Fluent), German (B1), Japanese (A1)

Programming: Python (NumPy, SciPy, Matplotlib, Pandas, Seaborn), MATLAB, Scilab, Java, C, Fortran, IDL

Document Creation: Microsoft Office Suite, LaTeX