

Couturier Jérémy

Curriculum Vitae

FORMATION

- 2022 – 2024 **University of Rochester**
POSTDOC
Formation of the Moon from a protolunar disk, dynamics of resonance chains
- 2019 – 2022 **IMCCE**
PHD
Dynamics of co-orbital planets with a focus on the influence of tides and resonance chains
- 2018 – 2019 **Observatory of Paris / University Paris Diderot**
DOUBLE DEGREE WITH EMSE
MSc : Dynamics of gravitational systems
- 2017 **Pontifical University of Chile**
ACADEMIC MOBILITY
Fluids mechanics, General relativity, Advanced field theory
- 2016 – 2019 **Saint-Etienne Engineer School of Mines (EMSE)**
CIVIL ENGINEER
Mathematics, Physics, Network, Image processing
- 2014 – 2016 **Blaise Pascal preparatory school, Clermont-Ferrand**
GRADE POINT : A
Mathematics, Physics, Computer science, English

EXPERIENCES

Teaching at Sorbonne university – 2020 & 2021

I taught lab work of fluids mechanics to third years students, as part of a teaching responsibility associated with my PhD.

Internship – Spring 2019

Three months master thesis at the **IMCCE**. Hamiltonian mechanics : Determination of an analytic expression of the motion of the Moon using Lie's transformation. The elaborated model is a 3-body problem with tidal dissipation.

Humanitarian trip – 12/2017 – 02/2018

A two month and a half trip in a native community in the peruvian jungle. I lived within the community and I taught english to the children as well as I helped the adults with the laboral work.

Teaching experience in Peru 07/2019 – 09/2019

I taught fluids mechanics to third year license students at the **Continental University** in the frame of a volunteer work organized by the NGO *Niños del Futuro*, the same organization that welcomed me for my humanitarian trip in december 2017.



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SPOKEN LANGUAGES

ENGLISH & SPANISH	Fluent
FRENCH	Native
GERMAN & PORTUGUESE	Written

COMPUTER SCIENCE

OPERATING SYSTEM	Linux (Ubuntu & Mint)
SOFTWARE	\LaTeX , Maxima
LANGUAGE	C (proficient, see here) & Python

LEISURE ACTIVITIES

SPORTS	Mountain bike, Free diving (32 meters), Hiking
OTHERS	Juggling (7 balls cascade), Kerbal Space Program

CONTACTS

- **MSc committee**
responsables.m2r@sympa.obspm.fr
- **Master internship supervisor**
IMCCE | [Jacques Laskar](#)
- **PhD supervisor**
IMCCE | [Philippe Robutel](#)
- **PhD co-supervisor**
CFisUC | [Alexandre C. M. Correia](#)
- **PostDoc advisors**
U of R | [Miki Nakajima](#) & [Alice Quillen](#)

PUBLICATIONS

- **An analytical model of tidal evolution in co-orbital systems**
Accepted June 12th, 2021 | [PDF](#) | [ArXiv](#)
- **Dynamics of co-orbital exoplanets in a first order resonance chain with tidal dissipation**
Accepted April 8th 2022 | [PDF](#) | [ArXiv](#)