

Cristian Villalobos Concha

Curriculum Vitae

PERSONAL DETAILS

Birth November 02, 1994
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Nationality Chilean

EDUCATION

B.S Physics <i>Pontificia Universidad Católica de Valparaíso.</i>	2013-2017
M.S in Sciences, mention in Physics <i>Pontificia Universidad Católica de Valparaíso.</i>	2018-2019
Phd Candidate- PhD in Sciences, mention in Physics <i>Universidad de Chile.</i>	2019-date

SKILLS

Languages Spanish (native) - English(intermediate)
Programming MATLAB-PYTHON

TEACHING

2016 - Teachers assistant of Experimental Electromagnetism. (PUCV).
2017 - Teachers assistant of Experimental Electromagnetism.(PUCV).
2017 - Teachers assistant of Theoretical Physics for Pedagogy in physics.(PUCV).
2018 - Teachers assistant of Experimental Electromagnetism.(PUCV).
2018 - Teachers assistant of Experimental Optics and Waves.(PUCV).
2018 - Teachers assistant of Electrodynamics.(PUCV).
2019 - Teachers assistant of Introduction to Classical Physics.(UCH).
2020 - Teachers assistant of Introduction to Classical Physics.(UCH).
2022 - Teachers assistant of Introduction to Classical Physics.(UCH).
2022 - Teachers assistant of Fluid Mechanics .(UCH).
2023 - Teachers assistant of Continuum Mechanics .(UCH).
2024 - Teachers assistant of Fluid Mechanics .(UCH).

CONFERENCES

2014 - II Congreso Nacional de Estudiantes de Ciencias Físicas y Astronómicas.
2015 - Southern Workshop on Granular Materials 2015.
2017 - XV Latin American Workshop on Nonlinear Phenomena (LAWNP 2017).
2017 - XVI International Workshop on Instabilities and Nonequilibrium Structures.
2018 - Southern Workshop on Granular Materials 2018.
2020 - Complex Fluid Seminar Series.
2021 - The Physics of Living Matter.
2021 - The Physics of Living Matter.
2022 - Oral presentation on APS March Meeting.
2022 - WE-Heraeus Summer School on Active Matter and Complex Media at the Institut d'Etudes Scientifiques de Cargèse, Corsica, France.

RESEARCH

Master Thesis - (2018-2019) - Crater Formation on Levitating Sands.
Phd Thesis - (2019-date) - Bacterial Fluctuation in Confined Spaces.
Internship:
Bacterial Shells (2019) - École Supérieure de Physique et de Chimie Industrielle.
Active Emulsion (2021) - École Supérieure de Physique et de Chimie Industrielle.

ARTICLES

2022 - Villalobos, C., Housset, M., & Varas, G. (2022). Geometrical description of impact cratering under microgravity conditions. *Granular Matter*, 24(2), 64.
2024 - Villalobos, C., Soto, R., & Cordero, M.L. (2024). Passive particle confined to a sphere subject to an active noise (submitted)
2024 - Villalobos, C., Soto, R., Cordero, M. L., Liu, Z., León, T. L., Linder, A., & Clément, E. (2024). Activity in confined bacterial baths (to be submitted)

SCHOLARSHIPS AND AWARDS

2018 - Second Place "Un Click al Conocimiento". (PUCV).
2018 - Beca término de tesis (PUCV).
2020-2024 - Beca ANID Doctorado Nacional.
2021. Program Scholarship Chile-France, from French Institute in Chile. Three months at PMMH laboratory at ESPCI, Paris, France, Sorbonne University.
2022. Cover of Granular matter. Volume 24, Issue 2.