



## Carlos Alvarez Zambrano

Postdoctoral Scholar, Geological Sciences

### Bio

---

#### BIO

Carlos' research interests include granular matter transport, sand dunes, multiphase flows, and the transport of particles in the atmosphere. At Stanford, Carlos is investigating the formation of eolian bedforms on Mars and Earth.

#### HONORS AND AWARDS

- ABCM-EMBRAER PRIZE 2020 in the category of best Ph.D thesis, Brazilian Society of Mechanical Sciences (ABCM) (2021)
- Recommended Ph.D thesis for the Capes Prizes 2021, School of Mechanical Engineering, UNICAMP, Brazil (2021)
- Travel Grant, 72nd Annual Meeting APSDFD, American Physical Society Division of Fluid Dynamics (2019)
- Travel Grant, São Paulo School of Advanced Sciences on Nonlinear Dynamics, University of São Paulo, Brazil (2019)
- Best presentation of the day, Experimental Fluid Mechanics - EFM2017, Technical University of Liberec, Czech Republic (2017)
- Emerging Leaders in the Americas Program (ELAP) Scholarship recipient, Global Affairs, Canada (2017)
- CNPq graduate grant, CNPq, Brazil (2016)
- Senescyt full scholarship. PhD program, SENESCYT, Ecuador (2016)
- Senescyt full scholarship. Master Program, SENESCYT, Ecuador (2014)

#### PROFESSIONAL EDUCATION

- Master of Science, Universidade Estadual De Campinas (2016)
- Doctor of Philosophy, Universidade Estadual De Campinas (2020)
- Engineer, Escuela Politecnica Nacional (2011)
- Ph.D., University of Campinas - Unicamp , Mechanical Engineering (2020)
- M.S., University of Campinas - Unicamp , Mechanical Engineering (2016)
- B.S., National Polytechnic School - EPN , Mechanical Engineering (2011)

#### STANFORD ADVISORS

- Mathieu Lapotre, Postdoctoral Faculty Sponsor

#### LINKS

- Google scholar: <https://scholar.google.com/citations?user=0k9nzM8AAAAJ&hl=en>