Stanford



Pedro Cintra

Ph.D. Student in Environmental Social Sciences, admitted Autumn 2025

Bio

BIO

Trained as a physicist until my MSc, in which I worked with neutrino detection of core collapse supernovae, I recently switched fields to apply mathematical and computational models to ecological and social systems :)

On the ecological side, I like working with individual based models for cooperation and foraging strategies from an evolutionary perspective. On the social side, I am currently interested in the evolution of cultural values on groups of humans and polarization of opinions on networks of contacts.

EDUCATION AND CERTIFICATIONS

- MSc, University of Campinas , Astroparticle physics (2023)
- BSc, University of Brasilia , Physics (2020)

LINKS

- My personal website: https://pedrohpcintra.github.io/

Publications

PUBLICATIONS

- **Sequential time-window learning with approximate Bayesian computation: an application to epidemic forecasting.** *Nonlinear dynamics*
  Valeriano, J. P., Cintra, P. H., Libotte, G., Reis, I., Fontinele, F., Silva, R., Malta, S.
  2023; 111 (1): 549-558
- **Uncanny valley hypothesis and hierarchy of facial features in the human likeness continua: An eye-tracking approach** *Psychology & Neuroscience*
  Grebot, I. B., Cintra, P. P., de Lima, E. F., de Castro, M. V., de Moraes Jr., R.
  2022; 15 (1)
- **Estimative of real number of infections by COVID-19 in Brazil and possible scenarios.** *Infectious Disease Modelling*
  Cintra, H. P., Fontinele, F. N.
  2020; 5: 720-736