

# Curriculum Vitae

I was born on 11 May, 1986, in Punta Arenas, Chile, in one of the southernmost cities in the world. At the age of 2 my family and I moved some 1800 km north (still in the south of Chile) to Concepción, where we lived for two years. Finally, we settled in Santiago in 1990. After attending 5 different schools through primary and secondary education, I completed high school in 2004 in Colegio Pumahue Peñalolén.

I am not sure when I found out that I wanted to study astronomy, but it must have been two or three years before I finished high school. I enrolled to study astronomy in Universidad Católica de Chile, starting in March 2005. During the summer vacations of 2006/2007 and 2007/2008 I went to Sun Valley, ID, and Lake Tahoe, CA, in the US, respectively, to work in ski resorts for the entire seasons, first as a lift operator and then as a ski instructor. In the second half of 2009 I worked on my BSc thesis in the Gemini South Observatory in La Serena, Chile, under the supervision of Dr. Percy Gómez, studying the dynamics of the merging galaxy cluster Abell 1882, and I obtained my BSc in January 2010.

I started my MSc in astrophysics in Católica immediately thereafter, in March 2010. My MSc thesis was on measurements of dynamical masses of galaxy clusters selected with the Sunyaev-Zel'dovich effect by the Atacama Cosmology Telescope (ACT) under the supervision of Prof. Luis Felipe Barrientos. I have been an active ACT member since. I obtained my MSc in January 2012. I then worked on the development of a data reduction pipeline for the FLAMINGOS-2 instrument, which was under commissioning in Gemini South, until in September 2012 I joined Leiden University as a PhD student under the supervision of Dr. Henk Hoekstra.

During my PhD I worked on a variety of aspects on the connection between dark and luminous matter in galaxy clusters using optical imaging and spectroscopy, as part of both the ACT and Kilo-Degree Survey (KiDS) collaborations, and in independent work with Dr. Hoekstra. I have presented my work in international conferences in Huntsville, AL (USA), Tallinn (Estonia), Prato (Leiden), London (UK), Athens (Greece) and Leiden (Netherlands), and in universities in Canada, Chile and the US.

After defending my PhD thesis in September 2016, I will take a postdoctoral research position with David Spergel in Princeton University in NJ, US, to work on joint science with ACT and the HyperSuprime Cam survey.