

CV

Andri Spilker

Chalmers University of Technology
Department of Space, Earth and Environment

Email: spilker@chalmers.se
Phone: +47 98461602

Education	Chalmers University of Technology Ph.D., Astronomy.	2018 - 2022
	University of Oslo M.Sc., Astronomy.	2016 - 2018
	University of Liverpool B.Sc. (Hons), Physics with Astronomy.	2012 - 2015
	Høgskolen i Ålesund (A Norwegian college of Higher education). Spanish and Latin American Culture, taught in Mexico.	2011 - 2011

Research

Ph.D.: Star Formation in the Milky Way.
For my PhD I will be working with Dr. Jouni Kainulainen, to study the structure of molecular clouds and how stars form in the Milky Way. I will be part of Chalmers Initiative of Cosmic Origins, see <http://cosmicorigins.space/cico>.

M.Sc.: “Origins, distribution and kinematics of circumgalactic OVI around star forming L^* galaxies”. Working with Dr. Sijing Shen, I analysed galaxy zoom-in simulations in the Eris suite in order to learn about the cycle of baryons in galaxy formation and evolution, specifically the role of five times ionised oxygen, OVI. You can read my master’s thesis here: <https://www.duo.uio.no/handle/10852/64557>.

B.Sc.: “Milky Way gas-dynamical simulations for Gaia”
Working with Dr. Andreea Font, I analysed state-of-the-art Milky Way gas-dynamical simulations in order to compare with data from the Gaia mission. This was a one semester project where I developed a simple method to find substructures and streams in the upcoming data from Gaia.

Summer project

June - August 2017

Research Assistant to Dr. Sijing Shen.
Analysing cosmological zoom-in simulations of Milky Way type galaxies (Eris simulations). Comparing simulations to observations done by other groups. Investigating temperatures, column densities and composition and ionisation level of gas in galaxies in order to improve understanding of gas inflows and outflows and their role in galaxy evolution.

Teaching	Teaching Assistant to Prof. Øystein Elgarøy	2017 - 2018
	Institute of Theoretical Astrophysics, University of Oslo. In AST1010: Astronomy - A cosmic journey. An introductory course in Astronomy open to students from all fields of study. My responsibilities were helping students with weekly assignments, repeating central topics from lectures, marking exams.	
Other	Mentor for Ent3r	August - December 2017
	Faculty of Mathematics and Natural Sciences, University of Oslo. Ent3r is a project to help and inspire youth to choose science education. The work consisted of assisting year 11 students with Mathematics and Physics, helping with homework and working to spark the students' interest and passion for science by explaining interesting topics and demonstrating fun experiments.	
	Participant at the Starmus festival	2016 and 2017
	Starmus is a festival for Science and music, with presentations and discussions by famous scientists, nobel prize winners, astronauts and musicians. In 2017 it was held in Trondheim, and I wrote about Astronomy in the Norwegian newspaper Adresseavisen.	
	International Student Ambassador	2012 - 2015
	Recruitment and Admissions team, University of Liverpool. Corresponding with international students via phone and/ or e-mail. Discussing offers with potential students and answering queries.	
	Field trip to Teide Observatory	June 2014
	with University of Liverpool. Included use of Mons, Carlos Sánchez and Liverpool telescopes, use of CCD cameras, data collection, image analysis and other practical observational astronomy techniques.	
Languages and Skills	Norwegian (native), English (fluent), Spanish (Conversational). Python, C/C++, IDL, Fortran, Matlab, R, L ^A T _E X. Full clean driving licence.	