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2. Stroe, A. and Sobral, D. A large narrow band Hα survey at $z \sim 0.2$: the bright end of the luminosity function, cosmic variance and clustering across cosmic time. MNRAS (in press, 2015)


18. Emonts, B. et al. (including Stroe, A.) CO(1-0) survey of high-z radio galaxies: alignment of molecular halo gas with distant radio sources. MNRAS, 438, 2898 (2014)


**Conference Proceedings**


I was born on the 19th of November 1987, in Constanța, Romania, on the beautiful coast of the Black Sea. I was fascinated by the Cosmos ever since I was a small child and wanted to become an astronaut when I grew up.

I completed my pre-university education in 2007 as valedictorian at the ‘Mircea cel Batran’ National College, with a focus on Mathematics, Computer Science, Physical and the English language and literature. Upon realising that my chances of becoming an astronaut were very slim, I decided I wanted to move people into space, so I participated in a series of space settlement design competition organised by NASA, where I designed habitable space settlements orbiting around the Earth, Mars and located on the Moon and on Mars.

My strong interest in all things space related lead me to study Physics and Astronomy at Jacobs University in Bremen, Germany. During my undergraduate degree, I took part in a number of research internships. In the summer of 2008, I returned as a mentor for the 15th NASA International Space Settlement Design Competition. In the winter of 2009, I spent one month researching an innovative deployment mechanism for solar cells installed on spacecrafts within the OHB System satellite company in Bremen. During the first half of the 2009 summer, I analysed data from the Cluster II spacecraft to understand the physics of the neutral sheet of Earth’s magnetosphere, within the Department of Space Plasma at the Max Planck Institute for Extraterrestrial Physics in Garching bei München, Germany. I spent the second half of the summer within the Optical Interferometry group at the Cavendish Laboratory, University of Cambridge, UK, where I wrote the visim software, an imaging simulator used for the upcoming Magdalena Ridge Observatory Interferometer. I also gained teaching experience by supervising the 1st year physics laboratory. I was also teaching assistant for the second year Analytical Mechanics course. I graduated in 2010 with honours, in the top 5% of my class, with two degrees: a Bachelor of Science in Physics and a Bachelor of Science in Earth and Space Sciences, with the focus Astrophysics. I wrote two theses on the topics the Earth’s neutral sheet (Multipoint Analysis of Local Magnetohydrostatic Equilibria in the Earth’s Magnetotail using Cluster II data, under the guidance of Prof. Dr. Joachim Vogt) and on simulated optical interferometric observations of a star with a disk (Assessment of the Feasibility of Proposed Observations for the Magdalena Ridge Observatory Interferometer with the visim Software, under the supervision of Prof. Dr. Marcus Brüggen).

I then moved on to University of Cambridge, where I pursued a Master of Advanced Study in Experimental and Theoretical Physics, hosted by the Cavendish Laboratory. I wrote my Master’s thesis under the supervision of Dr. Manda Banerji and Prof. Dr. Richard McMahon, at the Institute of Astronomy, on the topic Infra-red Properties of Galaxy Clusters Selected Using the Sunyaev-Zel dovich Effect. I graduated in 2011 with Merit.

My MSc work sparked my interest for multi-wavelength studies of galaxy clusters. As a result, I chose to do a PhD in Astronomy at Leiden Observatory, with Prof. Dr. Huub Röttgering, working on merging clusters hosting diffuse radio emission, combining radio and optical imaging and spectroscopy with modelling to study the effect of cluster merger shocks on the intra-cluster medium and the cluster galaxies. I have presented my work at national and international conferences in Nice (France), Bonn (Germany), Pune (India), Nijmegen (Nether-
lands), Dubrovnik (Croatia), Jeju (South Korea), Ringberg (Germany) and at other institutes (Hertfordshire, UC Davis, U Porto, U Lisbon, IAC Tenerife, INTA/CSIC Madrid, UCLA, UC Riverside, Stanford, Berkeley, Caltech, Harvard, ESAC Madrid, MPIA Heidelberg). I attended meetings, workshops and schools in Madrid (Spain), Bielefeld (Germany), Socorro (US), Garching (Germany), Manchester (UK) and Seattle (US).

In October 2015, I will move to Garching bei München to take up an ESO Fellow position.
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