

# JONATAN SELSING

## PROFESSIONAL INFORMATION

<i>Position</i>	PhD Student
<i>Group</i>	Dark Cosmology Centre (DARK)
<i>Institute</i>	Niels Bohr Institute
<i>University</i>	University of Copenhagen
<i>email</i>	<a href="mailto:jselsing@dark-cosmology.dk">jselsing@dark-cosmology.dk</a>

## EDUCATION

<i>PhD Degree</i>	<i>2013–present</i>	University of Copenhagen <i>Astrophysics</i> · Group: Dark Cosmology Centre · Institute: Niels Bohr Institute Description: Integrated master and PhD scheme. To be finished by 01.08.2017.
	<i>2011–present</i>	University of Copenhagen <i>Specialization in Astrophysics</i> · Institute: Niels Bohr Institute Description: Master degree to be awarded when half of integrated PhD scheme has been completed.
<i>Master of Physics</i>		
<i>Bachelor of Physics</i>	<i>2008–2011</i>	University of Copenhagen <i>Specialization in Astrophysics</i> · Institute: Niels Bohr Institute Thesis: <i>Spectroscopic analysis of low-metallicity KISSR galaxies with X-shooter</i> Description: This research project was an investigation of two outlier galaxies in the local L-Z relation. Three explanations were explored, but no conclusive evidence towards either was found. Advisor: Prof. Jens HJORT Co-Advisors: Martin SPARRE & Teddy FREDERIKSEN

## PUBLICATIONS

- 1 Japelj, J.; Covino, S.; Gomboc, A.; Vergani, S. D.; Goldoni, P.; **Selsing, J.**; Cano, Z.; D’Elia, V.; Flores, H.; Fynbo, J. P. U.; Hammer, F.; Hjorth, J.; Jakobsson, P.; Kaper, L.; Kopač, D.; Krühler, T.; Melandri, A.; Piranomonte, S.; Sánchez-Ramírez, R.; Tagliaferri, G.; Tanvir, N. R.; de Ugarte Postigo, A.; Watson, D.; Wijers, R. A. M. J., *Spectrophotometric analysis of GRB afterglow extinction curves with X-shooter*, Accepted for publication in A&A, arXiv:1503.03623
- 2 T. Krühler, D. Malesani, J. P. U. Fynbo, O. E. Hartoog, J. Hjorth, P. Jakobsson, D. A. Perley, A. Rossi, P. Schady, S. Schulze, N. R. Tanvir, S. D. Vergani, K. Wiersema, P. M. J. Afonso, J. Bolmer, Z. Cano, S. Covino, V. D’Elia, A. de Ugarte Postigo, R. Filgas, M. Friis, J. F. Graham, J. Greiner, P. Goldoni, A. Gomboc, F. Hammer, J. Japelj, D. A. Kann, L. Kaper, S. Klose, A. J. Levan, G. Leloudas, B. Milvang-Jensen, A. Nicuesa Guelbenzu, E. Palazzi, E. Pian, S. Piranomonte, R. Sánchez-Ramírez, S. Savaglio, J. **Selsing**, G. Tagliaferri, P. M. Vreeswijk, D. J. Watson, and D. Xu, *GRB hosts through cosmic time - VLT/X-shooter emission-line spectroscopy of 96 gamma-ray-burst-selected galaxies at 0.1 < z < 3.6*, Submitted for publication in A&A.

## TALKS

- |   |             |                                     |
|---|-------------|-------------------------------------|
|   | <i>2013</i> | Galaxies meet GRBs at Cabo de Gata  |
| 1 |             | Talk title: <i>IFS of Ic-BL SNe</i> |

2014 X-shooter GRB workshop, Grenada  
 2 Talk title: *Composite spectrum of the afterglow sample*

#### OBSERVATIONAL EXPERIENCE

2015 Cerro Tololo, Blanco 4m  
 NOAO *Description:* Cluster weak lensing observations with DECam over 5 half-nights(PI: Anja von der Linden, KIPAC).  
 2010 Roque de los Muchachos, NOT 2.5m  
 IAC *Description:* Summer school in Observational Astronomy. Spectroscopic confirmation of quasar candidates with ALFOSC for variability studies over 2 full nights.

#### TEACHING EXPERIENCE

2013 TA, INTRODUCTORY COSMOLOGY  
 PhD TA duties Teaching assistant for the course NFYB10024U, given by Prof. Jens HJORT and Assoc. Prof. Sune TOFT. TA duties consisted of supervising exercises and going through calculation on black-board.  
 2013 TA, INTRODUCTORY CLASSICAL MECHANICS  
 Teaching assistant for the course NFYB10004U, given by Assoc. Prof. Mogens DAM and Prof. Ian BEARDEN. TA duties consisted of planning and writing new lab exercises and supervising the lab sessions. Students were introduced to programming with MATLAB.  
 2013 TA, ADVANCED CLASSICAL MECHANICS  
 Teaching assistant for the course NFYB10012U, given by Assoc. Prof. Jørgen BECK HANSEN and Børge SVANE NIELSEN. TA duties consisted of planning and writing new lab exercises and supervising the lab sessions. Students were introduced to programming with MATLAB.

#### PUBLIC OUTREACH

2010–2012 Guide, TYCHO BRAHE PLANETARIUM  
 Outreach Outreach oriented work consisting of giving lectures for groups, giving tours in the permanent exhibition and speaking in the planetarium.

#### OTHER INFORMATION

Awards 2014 · Jens Martin Knudsen prize for excellence in teaching.  
 Languages DANISH · Mother tongue  
 ENGLISH · Fluent  
 GERMAN · Rudimentary  
 SPANISH · Rudimentary

May 26, 2015