# ALESSANDRO NASTASI

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| Nationality | Italian |


## WORK EXPERIENCE

**Data Scientist** June, 1st, 2015 – Now

*OmegaLambdaTec GmbH – Data Science Services – Garching bei München*

Analysis and modeling of companies activity data with the aim of implementing optimization strategies and forecast study for their business performances.

**Research support and applications developer Engineer** 2013 Dec. – May 2015

*Integrated Data and Operative Centre (IDOC) – CNRS/IAS, Orsay (France)*

Administration and maintenance of the publicly accessible astronomical database http://szcluster-db.ias.u-psud.fr and development of JavaScript components for new client-side functionalities.

**Data Scientist** 2014 Aug. – 2014 Sept.

*REEVOO: Ratings & Reviews – London (United Kingdom)*

4-weeks teamwork project aimed at analyze a large structured database to unveil and understand characteristic patterns of user responses. Development of an application to monitor the company activity and optimize its business performance.

**Postdoctoral Research Fellow** 2012 Oct. – 2013 Feb.

*Max-Planck-Institut für extraterrestrische Physik (MPE) – Garching bei München*

Development and optimization of software, scripts and strategies to increase the quality of scientific data reduction process. Collaborations with international teams for future research projects.

## EDUCATION AND TRAINING

Science to Data Science (S2DS) workshop – *London (United Kingdom)* Aug. - Sept. 2014

5-weeks workshop on Big Data analysis and commercial tools and techniques (http://www.s2ds.org/).

**PhD in Astrophysics** 2012

*International Max Planck Research School (IMPRS) of MPE – LUDWIG MAXIMILIAN UNIVERSITY of Munich (Germany)*

THESIS PROJECT: Spectroscopic confirmation and multiwavelength study of high redshift, X-ray selected galaxy clusters. Development of a new software (*F*-VIPGI) for a semi-automated reduction of spectroscopic data.

GRADE: Promoted cum Laude

**Master's degree in Astrophysics and Cosmology** 2009

*ALMA MATER STUDIORUM – University of Bologna (Italy)*

THESIS PROJECT: AGN – galaxy co-evolution in the high redshift universe.

GRADE: A cum Laude

**Bachelor degree in Astronomy** 2006

*ALMA MATER STUDIORUM - University of Bologna (Italy)*

THESIS PROJECT: Pop III stars and their role in the early universe.

GRADE: A

## PERSONAL SKILLS

NATIVE LANGUAGE

**Italian**

| OTHER LANGUAGES | *Reading* | *Writing* | *Speaking* |
|---|---|---|---|
| **English** | Excellent | Excellent | Fluent |
| **French** | Intermediate | Intermediate | Intermediate |
| **German** | Intermediate | Basic | Basic |

### SOFT SKILLS

• Strong analytical and conceptual thinking
• Creative problem-solving approach
• Extensive teamwork experience in multi-cultural environments
• Ability to learn quickly motivated by curiosity and enthusiasm

### TECHNICAL SKILLS

• Programming languages: Python (advanced), Bash (advanced), C++ (intermediate), JavaScript (basic), Fortran90 (basic)
• Database software: SITools2 (advanced), PostgreSQL (intermediate), PgAdmin III (intermediate)
• Operating Systems: Microsoft Windows, Linux Ubuntu
• Statistical software: SciPy, Microsoft Excel, Open Office Calc
• Data-plotting software: Gnuplot, Smongo, PyPlot, Topcat
• Image processing software: IDL, IRAF
• Text editors: Microsoft Word, Open Office Writer
• Markup languages: LaTeX, HTML, XML
• Slide Presentation software: Microsoft Power Point, Open Office Impress

Extensive experience in software development/testing and statistical analysis of large amounts of real and simulated data.

### PERSONAL INTERESTS

• Open-air sports
• Cuban dance
• Photography