

# Abdalrahman Abohalima

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[personal website](#)

## EDUCATION

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- M.Sc. Astrophysics**, Lund University, Sweden June 2017  
Supervisor: Dr. Louise Howes.  
Thesis: Neutron-capture elements in the early universe.
- B.Sc. Physics**, Alexandria University, Egypt June 2013  
Supervisor: Dr. Magdy Alabshehy.  
Thesis: The constituents of the interstellar medium.

## HONORS & AWARDS

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- Lund University global scholarship; masters degree tuition fees. 2015-2017  
Scholarship awarded on academic merit basis.
- Physics honors program, Alexandria University Jan 2012- Jun 2013  
Selection based on academic achievements, only 2 students joined the program my year.

## WORK EXPERIENCE

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- Database developer**, MIT physics department, USA Jun - Aug 2016  
Curated a database for metal-poor stars with a Python based web application. A project funded by the Joint Institute for Nuclear Astrophysics (JINA). In collaboration with Prof. Anna Frebel from MIT. Web application at [jinabase.pythonanywhere.com](http://jinabase.pythonanywhere.com)
- Python developer**, MIT physics department, USA Jun - Aug 2017  
Developing a python interface with an SQL database for Prof. Anna Frebel's research group.

## TEACHING

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- Teaching Assistant**, Alexandria University, Egypt Sep 2013 - Jan 2014  
Teaching and grading laboratory physics for first year science major students.
- Physics instructor**, Sep 2013 - Jan 2014  
Arab Academy for Science, Technology & Marine Transport, Egypt  
Teaching laboratory physics for first year engineering major students.

## PUBLICATIONS

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- [1] A. Abohalima and A. Frebel. [JINAbase: A database for chemical abundances of metal-poor stars](#). *ArXiv e-prints*, November 2017, [arXiv1711.04410](https://arxiv.org/abs/1711.04410).

## PRESENTATIONS

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- Masters talk**: "Neutron capture elements and metal-poor stars", Sep 2016  
Part of Lund's masters program.
- Course talk**: "Evolution of the martian atmosphere", Oct 2016  
Planetary sciences course at Lund Observatory.
- Local talk**: "Masters project first results", Nov 2016  
Stellar population group at Lund Observatory.
- Invited talk**: "Neutron capture elements in the early Universe", Feb 2017  
Galactic archeology group at ARI, Heidelberg.
- Masters final presentation**: "Neutron capture elements in the early Universe". May 2017

## SKILLS

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Python, Matlab, Linux, SQL, Pandas, Excel, and Bokeh.  
Flask, HTML, CSS, Javascript, Web application design, and LaTeX.

## RESEARCH INTERESTS

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Stellar archeology, metal-poor stars, the early Universe, the first stars, stellar nucleosynthesis, galactic chemical evolution, heavy elements nucleosynthesis, accurate/precise stellar abundances.