

magnusvilhelmpersson

researcher, lecturer, data analyst & author

curriculum vitae

about

magnusp@vilhelm.nu ✉

<http://vilhelm.nu> 🌐

vilhelmp 🌐

magnusvp 🐦

magnusvp 📘

languages

swedish (native)

english (fluent)

danish, german

(conversation)

romanian (basic)

programming

Python ★★★

Matlab ★★

PHP, C, IDL, SQL ★

markup languages

Latex ★★★

HTML, CSS ★

operating systems

GNU/Linux ★★★

Windows, OSX ★

interests

data analysis, optimization, machine learning, python programming, web scraping, databases, outreach, community building, teaching, astronomy, data modeling, image processing/analysis, general IT

experience

In addition to the below presented experience I am also the main author of 'Mastering Python Data Analysis' (Packt Publishing, ISBN : 9781783553297).

2016-current **Research specialist**

Chalmer University of Technology

As a research specialist at Chalmers University of Technology I am working on many different projects, including calibration of large datasets (>7 TiB), and several international collaborations. Highlights of various responsibilities are:

- Main chair of the Scientific Organizing Committee of the European Week of Astronomy and Space Science (EWASS) Symposium 4.
- Teaching part of the course Image Processing (RRY025) at Chalmers.

2013-2016 **Post doctoral researcher**

Leiden Observatory

As a postdoctoral researcher at Leiden Observatory I was responsible for developing a new method to analyze high-resolution observations of protostars. Highlights of various responsibilities are :

- Co-organizer of Lorentz Center workshop 'Python in Astronomy'.
- Main organizer of Python course for the Observatory staff.
- Organizer of weekly Python user hangout.
- Supervisor of 3 summer students, working on spectral cubes.
- Develop and keep up-to-date the IAU Division H web page.

2010-2013 **Ph.D in Astronomy**

StarPlan/Copenhagen University

As a Ph.D student at Centre for Star and Planet Formation (StarPlan) in Copenhagen, my project focused on analyzing observations of warm water in the earliest, deeply-embedded stages of star formation. Highlights of various responsibilities are:

- LOC for the conference 'Astrochemistry in the ALMA era'.
- Supporting supervisor for two M.Sc. students.
- Teaching assistant at Nordic-Baltic Summer School 2011 (Turku, Finland).

- 2004-2010 **M.Sc. & B.Sc. in Astronomy** Stockholm University/UNSW
During my B.Sc. and M.Sc. studies I took various courses in (astro-) physics, math, statistics, and experimental methods. Highlights of various responsibilities are:
- B.Sc. project with prof. Michael Burton at UNSW, Sydney, Australia.
 - Teacher/supervisor at a summer research school at Stockholm University.
 - Worked at the old Observatory in Stockholm (Royal Academy of Science).
 - M.Sc. project involved hands on experience with telescope instrumentation at the NOT, La Palma, Spain.
 - Student representative in the Astronomy department.

outreach/PR

radio

- 'Mix Megapol Göteborg', listener question (2017-10-05).
- 'Sveriges Radio P4 Halland', commenting on research results (2016).
- 'Sveriges Radio P3 Institutet', longer interview (2015).

public talks

- 'Göteborgs Amatörastronomiska Klubb', invited talk (2017).
- 'Fjärås Bräcka', invited talk (2016).

education

- Jun 2013 **Ph.D.** in Astronomy/Physics StarPlan, Copenhagen University
- Jan 2010 **M.Sc.** in Astronomy/Physics Stockholm University
- Dec 2008 **B.Sc.** in Astronomy/Physics Stockholm University/University of New South Wales (Sydney)