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# Astronomical Information Technology at the University of Groningen

## Goals

- Create an Astronomical Information Technology community at the University of Groningen.
- Hold regular (~once a month) meetings about AIT.
- Make groups mutually aware of existing expertise, main challenges and things they can get from each other
- Discuss/HOWTO solve software problems

## Info / Plan

- Organizers 2016/06: Gert Sikkema (consultants: you?, Hugo Buddelmeijer, Gijs Verdoes / Edwin Valentijn)
- Audience: open to all Kapteyners: students, promovendi, postdocs, staff
- Nature of the meetings: two speakers, one talk about a specific astronomical problem solved through information technology, and one talk more about software carpentry tailored for astronomy.
- Astroinformatics: how to write astronomical software importance of versioning, sql etc. (BUZZWORD: SOFTWARE CARPENTRY. see <http://software-carpentry.org/> )
- Input for topics is very much welcomed.

## Meeting Schedule

Tentative schedule: every second Tuesday of the month in ZG257a at 13:30.

First meeting Thursday 9th of June at 13:30

- June 9nd :
  - Maarten Breddels Gaia vizualization
    - PDF Presentation: [Vaex PDF Presentation](#)
    - Weblinks to the software and documentation: <http://www.astro.rug.nl/~breddels/vaex/> , <http://www.github.com/maartenbreddels/vaex>

Second meeting Tuesday 13th of December at 13:30

- December 13th : Enrico Petrillo: An Introduction to Convolutional Neural Networks

### ABSTRACT

Convolutional Neural Networks (CNNs) are revolutionizing the Artificial Intelligence field with their unprecedented ability to learn complex tasks which challenge human abilities.

In this talk I will introduce the basics of CNNs and show some of the most exciting applications in Astronomy and in our daily life.

- Later (fixed monthly slot decided soon):
  - Giorgos Vernardos mySQL
  - Astro: Gert Sikkema ASTROWISE Data lineage/IC correction/Satellite example

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