



**ANTOINE VACAVANT**

*From France to Sweden*



Project: **Computer Science and Medical Application**

Research topic: **Informatics**

Swedish Institution: **Uppsala University**

French Institution: **Université Clermont Auvergne**

Dates of mobility: **18/10/2018 to 24/10/2018**

Program: **SFVE-A (ex TOR)**



## PRESENTATION

Antoine Vacavant is Professor in Computer Science at [IUT Le Puy-en-Velay](#) and instructor at [NVIDIA](#). He graduated 2008 with a PhD degree in Computer Science at [Université Lumière](#) (Lyon II). He is interested in research projects mixing pattern recognition and computer vision topics (digital geometry, image processing and segmentation, and classification) with medical imaging and healthcare issues.

## ACTIVITIES IN SWEDEN

[Antoine Vacavant](#) visited [Uppsala University](#) and met there [Robin Strand](#) and many other students and Professors such as [Natasa Sladoje](#) and [Joakim Lindblad](#). They had fruitful exchanges on current research that paved the way for future collaboration.

For instance, a project on the analysis of MRI sequences of the liver for the registration of MRI volumes, and extraction of hepatic vessels and a cooperation on machine learning algorithm design, in particular deep learning approaches for biomedical application (detection of cancer tissues), have been mentioned. A last project has been discussed concerning medical image segmentation by haptic devices .

Antoine Vacavant had moreover the opportunity to give three seminars, including one at Franska Skolan in Stockholm entitled "Computer image analysis for biomedical applications and another one at Uppsala University dealing with robust image processing algorithms.