



**CHRISTOPHE GUYEUX**

*From France to Sweden*



Project: **Data science and Health informatics**

Research topic: **Informatics**

Swedish Institution: **Stockholm University**

French Institution: **Université de Bourgogne Franche-Comté**

Dates of mobility: **20/05/2019 to 27/05/2019**

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



## PRESENTATION

[Christophe Guyeux](#) is a Professor at the [Department of Computer Science and Complex Systems, FEMTO-ST Institute](#) at the [Bourgogne Franche-Comté University](#). His research interests are sciences and complex systems. Thus, he applies techniques from Mathematics and Computer Science to solve scientific questions in environmental, bioinformatics, and big data fields.

## ACTIVITIES IN SWEDEN

[Christophe Guyeux](#) met two teams from the [Department of Computer and Systems Sciences at Stockholm University](#), and both were working on Artificial Intelligence (AI). [Prof. Panagiotis Papapetrou](#)'s team focused on Data science whereas [Prof. Hercules Dalianis](#)' team dealt with language technologies.

The research and skills of the second team, composed of [Aron Henriksson](#) and [Rebecka Weegar](#), appeared complementary and relevant for Prof. Guyeux, especially for the Interreg project on the Hospital of Nord-Franche Comté (HNFC) that aimed to find a solution to prevent congestion at the hospital's emergency service. The Swedish team had indeed the ability to proceed to an automatic analyse of textual data, information about the patient such as diagnosis or operations, to detect anomalies or to plan the stay of patients in an optimal way, including their departure date. The objectives are thus to forecast upstream the workload of the emergency service and to potentially prepare the redirection procedure of patients to other services, hospitals, or doctors.