



Bruno Pinaud

From France to Sweden



Project: A comparative study of multilayer network

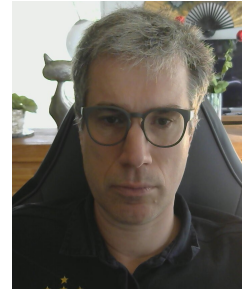
Research topic: Informatics

Swedish Institution: Uppsala University

French Institution: University of Bordeaux

Dates of mobility: 26/09/2023 to 29/09/2023

Program: SFVE-A



PRESENTATION

[Dr Bruno Pinaud](#) is an associate professor (HDR, equiv. DOCENT) in computer science at the [University of Bordeaux](#), France (at [LaBRI](#)) since 2008. He is a data and network scientist and one developer of the [Tulip graph analysis framework](#). Network science is about modeling relationships between entities in real-world complex systems. He is also focusing on visual analytics and experimental evaluation of network visualizations. He is particularly working on multilayer networks because reality is better embraced as several interdependent subsystems or layers instead of having a traditional simple graph.

ACTIVITIES IN SWEDEN

Bruno Pinaud visited [Matteo Magnani](#), Professor at [Department of Information Technology, Division of Computing Science](#)) and his PhD student [Georgios Panayiotou](#). We continue the work started in 2022 and published for the first time in spring 2023: [Towards efficient multilayer network data management](#), French Regional Conference on Complex Systems (FRCCS) 2023. We decided to continue our joint work with a journal publication. Before working on this publication, for my first morning in Uppsala, I gave a one hour talk about the network visualization framework, called Tulip, we are developing in Bordeaux. The rest of the week consisted in many brainstorming sessions to sketch our new joint paper. We did all the modeling work which is much easier to do when we are all sitting in the same room. The paper will be submitted before the end of 2023 to a top-ranked computer science journal. The paper will be about a comparative study of multilayer network analysis programming libraries. This is a question of very high interest for anybody interested in modeling complex systems without redeveloping her/his own solution.