



 **SERGEI GRUDININ**

From France to Finland 

Project: **Structural bioinformatics**

Research topic: **Biology**

Finnish Institution: **University of Helsinki**

French Institution: **CNRS**

Dates of mobility: **14/12/2022 to 23/12/2022**

Program: **Maupertuis Programme**



PRESENTATION

[Sergei Grudinin](#) graduated from [Moscow Institute of Physics and Technology \(MIPT\)](#) in 2002. He did his Master project on MD simulations of membrane proteins in Forschungszentrum Juelich, where he continued it as a PhD thesis. In 2006, after the PhD defence, he switched the activities to methods development, and later moved to [Inria Grenoble](#) in 2007 and became a permanent [CNRS](#) scientist in 2009. Currently he leads a team whose topic is the development of novel algorithms for structural bioinformatics using both physics-based and knowledge-based approaches. He is particularly interested in predicting tertiary and quaternary structure of proteins and they way how protein structure is linked with protein dynamics and how it defines protein function. Computational methods developed in the team are widely used worldwide and, for example, were ranked 1st in 3 data-assisted challenges in the recent CASP13 protein structure prediction exercise.

ACTIVITIES IN FINLAND

Sergei Grudinin visited [Helsinki University](#) and was hosted by the team of [Juha T. Huiskonen](#), at the [Institute of Biotechnology](#). During his stay, he talked to multiple researchers and gave a public lecture on the recent advances in structural bioinformatics and specific interests of his team. With Juha T. Huiskonen, he visited [Institut Français](#) and discussed multiple ways to continue the collaboration between the two countries. As an outcome, they have agreed on trying to develop new methods for three different projects.