



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

**CSElab**

Computational Science and Engineering Laboratory

# IMPROVED MEMORIES LEARNING FOR SAMPLE EFFICIENT REINFORCEMENT LEARNING

Master Thesis  
Francesco Varoli  
Summer 2020

Supervisor: Prof. Dr. Petros Koumoutsakos  
Guido Novati  
Pantelis Vlachas

Computational Science and Engineering Laboratory, ETH Zürich