MARCUS SAGERFORS was born in Kalmar in 1977. After medical school in Uppsala (2003) and an internship, he completed training in Orthopaedic Surgery (2010) and Hand Surgery (2012) at Örebro University Hospital. He is a hand surgeon at the Department of Hand Surgery, Örebro University Hospital.

In this thesis, he investigates the patient-related functional outcome after total wrist arthroplasty (TWA) and then continues to assess implant survival and radiographic loosening in a cohort of TWA patients using four types of TWA and prospective collection of data. He also studies a new TWA design kinematically in a cadaveric model. Finally, he assesses the outcome of a new TWA in a pilot study.