Uros Marusic graduated from the Faculty of Electrical Engineering, University of Ljubljana, from the department of Cybernetics in medicine – biomedical engineering (2011) and acquired a Ph.D. from the study program Applied Kinesiology at FAMNIT of the University of Primorska (2015). Under the mentorship of Prof. Dr. Rado Pišot and co-mentorship of Assistant Prof. Dr. Voyko Kavcic he specialised as a young researcher in the field of neuroscience of movement and in the course of his doctoral dissertation examined the effect of cognitive training during bed rest in elderly on their cognitive functioning, mobility control and the brain electrocortical activity. During the course of his doctoral studies, Uros Marusic was also actively involved in the research group of Dr. Romain Meeusen at the Department of human physiology at the Vrije Universiteit Brussel (Brussels, Belgium).

In 2013 he received the prestigious "Young Investigator Award (oral)" at the Congress of European College of Sport Science in Barcelona and lectured as invited lecturer at the congress Japanese Society of Physical Fitness and Sports Medicine (JSPFSM), Tokyo (Japan). In 2014 he won a competition for young researchers at the 7th international conference on kinesiology entitled "Fundamental and Applied Kinesiology - Steps Forward" in Opatija (Croatia) and received the honorary prize "Santorio Santorio" of the study program Applied Kinesiology for outstanding academic performance and scientific research success in the academic year 2012/2013. In 2015 he received an award "The messenger of sciences" for individual exceptional scientific achievements of promising researchers from the Science and Research Centre of Koper, University of Primorska. In 2016 he received the prestigious "Young Investigator Award (mini-oral)" at the Congress of European College of Sport Science in Vienna, for his study entitled "Mental Simulation of Locomotor Tasks Improves Outcome Rehabilitation and Elderly Adults After Hip Surgery".

Uros Marusic continued his employment at the University of Primorska, where he was in 2015 elected assistant professor / research associate. He delivered lectures in the framework of the courses Biomechanics and Human Movement Analysis, as well as carry out lectures / laboratory work in a number of other courses (Kineziometrics, Research methods in kinesiology, Applied kinesiology research dimension, Methods of data processing in kinesiology) of the study program Applied Kinesiology (UP FAMNIT).

Since 2013, Uros Marusic published 48 original scientific articles and 20 review articles. An important special achievement of Uros Marusic is also the invited lecture at the 20th Congress of European College of Sport Science in Malmo (Sweden). Uros Marusic is editor of a scientific monograph in English "Hip fracture and the elderly: Reasons, Consequences and Rehabilitation", where he contributed two independent sections. In addition, he is member of the editorial board of the scientific journal European Review of Aging and Physical Activity (EURAPA) and Annales Kinesiologiae.

Uros Marusic has already during the time of his doctoral dissertation independently led a monitoring station in the study "Pangea Valdoltra bed rest 2012", where the aim was to utilise cognitive exercise in order to prevent a decline in sensorimotor function in elderly subjects. Even before the defence of his doctoral thesis, Uros Marusic has taken on a coordinating function in the study of rehabilitation after hip surgery (PANGeA hip study). Both were part of the international project PANGeA. Uros Marusic is a member of the Kinesiology program for quality of life (P5-0381). In 2017 he was a visiting lecturer at the prestigious University of Michigan (Michigan, USA) and the Albert Einstein College of Medicine (New York, USA). In 2018 he was a research fellow at the University of Michigan's Functional Neuroimaging, Cognitive and Mobility Laboratory.

Since November 2020, he has been leading the international Horizon 2020 project entitled TwinBrain (TWINning the BRAIN with machine learning for neuro-muscular efficiency), worth €0.9 million. Moreover, since September 2023, he is the PI of another Horizon Europe project entitled TBrainBoost, worth €2 million (ID 101120150).