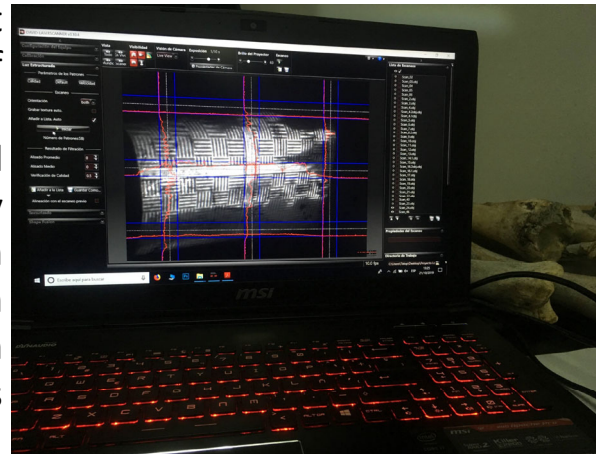


Research Topic	On the Monument in the Square	Graduate School of Engineering
Host University	University of Salamanca / Avila / Spain	Architecture, Civil Engineering and Urban Design
Duration	From October 14 to December 12, 2019	HASEGAWA Kaho

## Summary of the Research Activities

I mainly carried out exploration tasks of different geomatic sensors for the documentation of objects of different sizes collaborating in the WOLF Footprint and Heritage 5.0 projects. I learned the methodology based on the use of a structured light scanner and actually manipulated it for 3D characterization of cut marks on bones. These systems consist of a projector along with one or several cameras, and they achieve 0.05mm resolution. They need preparation since calibration is required, and a post-production for the union of the



clouds of points is semiautomatic. Besides, the results would not be affected by such changes. Therefore, they can be operated without special skills. I am studying the way to integrate graphical and textual information into a spatial information system for preservation of historical buildings.

My study is about spatial of station. Until now I have been conducting mental image evaluation experiments using photographs taken from one side. Through the experience I have had in studying abroad, I'm advancing my study by using panoramic photograph. By doing so, we think that space that has been captured only in pieces can be done in a state closer to real space.

## College Life, Friends and Others

There is the laboratory in Avila, in the neighboring Salamanca. There is a wall built in the 11<sup>th</sup> century to protect it from Muslim attacks in Avila. It is in a good state of preservation. This appeals research groups such as ; geomatics, computer scientist, industrial engineers, civil engineers, and architecture applications. Therefore there was exchange between various fields.



### 指導教員講評

大勢の仲間に歓迎され、にぎやかな環境の中で新技術に対する、多方面からの見方を学べたようです。

指導教員氏名: 田中 一成