For my project I will be using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) in order to perform a provenance analysis of iron artifacts from Labrador. The artifacts were acquired from Basque whaling stations located in southern Labrador by the Inuit in the early contact period of the sixteenth century. The purpose of my research is to determine how dependent the Inuit of Labrador were on this source of iron in the sixteenth century by geochemically analyzing several iron artifacts found in early contact period Inuit sites. By sourcing iron Inuit artifacts from several areas along the coast of Labrador I will be able to better ascertain the impact that this early European contact had on the material culture and society of Labrador’s Inuit.