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## **Classification of Ancient Greek Coins – Challenges Using AI methods**

This paper will focus on the Corpus Nummorum (CN) project, which indexes ancient Greek coins from various landscapes and develops typologies (<https://www.corpus-nummorum.eu>). Another aim is to create a multilingual hierarchical iconographic thesaurus of ancient Greek coin designs, as there is a lack of comprehensive authority data in this area. Due to the large quantities of coins available, we have begun employing AI methods. We adopted supervised learning methods for image recognition and used Natural Language Processing for our descriptions of coin designs, combining them with a hierarchical entity list. The paper will present the results achieved thus far and, in particular, address the challenges arising from the specifics of ancient coins and the traditions of their description.

**Ulrike Peter**  
**CURRICULUM VITAE**

Name	Dr. Ulrike Peter
Birth date	12/31/1966
Affiliation	Corpus Nummorum Berlin-Brandenburgische Akademie der Wissenschaften Jägerstrasse 22/23 D – 10117 Berlin

**A. Professional Experience / Employment**

Since 11/2012	different projects for the development of the Corpus Nummorum portal; currently: “Data quality for Numismatics based on Natural language processing and Neural Networks – D4N4”
11/2012–10/2017	Excellence Cluster “Topoi – The Formation and Transformation of Space and Knowledge in Ancient Civilizations”, PI in B-4
2009–2012	coordinator of the network cooperation “Translatio nummorum – The perception of classical antiquity via ancient coins by antiquaries in the Renaissance”
2007–2017	research associate in the project “Census of Antique Works of Art and Architecture Known in the Renaissance” at the BBAW
1999–2002	coordination of “Balkan Initiative der Berliner und Brandenburger Wissenschaft” at the BBAW
1992–2003	project “Griechisches Münzwerk” at the BBAW
since 1992	Research assistant at the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW), Berlin

**B. Education**

1994	PhD (Dr. phil.) in Ancient History, Humboldt University Berlin
1990–1991	PhD scholarship Humboldt University Berlin
1985–1990	Study of Historical Sciences at the Lomonossow-University in Moscow (Russia)

**C. Grants and Awards**

2019	Honorary Member of the National Archaeological Institute with Museum of the Bulgarian Academy of Sciences
2019	Corresponding Member of the German Archaeological Institute
1999	Colin Kraay scholarship Oxford