

Mayra D. Manrique-Ortega

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FULL TIME PROFESSOR (From August 2021)
Centro de Investigación en Corrosión, Universidad Autónoma de Campeche, Av. Héroe de Nacozari 480, 24079 Campeche, Camp.
SNI-CONACyT: Candidate (2021–2024).
Total citations: 23

Education —

PhD

Material Science and
Engineering
UNAM
November 2019

Master

Material Science and
Engineering
UNAM
November 2014

Bachelor

Physics, UNAM
September 2012

Professional experience

2020-2021

Postdoctoral Research Associate • LANCIC • Institute of Physics, UNAM

2019

Physic Lab Assistant • LANCIC • Institute of Physics, UNAM

2015

Lab Assistant • Coordinación Nacional de Conservación del Patrimonio Cultural • INAH

The projects consisted on the analysis of Mesoamerican objects for the identification, classification and characterization, of the collections and, later, an analysis of their archaeometric implications.

Languages —

Spanish: *Native Language*

English: *Advanced Reading and Writing*

Italian: *Intermediate Reading and Writing*

French: *Intermediate Reading and Writing*

LSM: *Intermediate*

Academic experience

2015-2019

PhD Student • LANCIC • Institute of Physics, UNAM • Dr. José Luis Ruvalcaba-Sil

2012-2014

Master Student • ANDREAH II • Institute of Physics, UNAM • Dr. José Luis Ruvalcaba-Sil

2010-2012

Undergraduate Student • ANDREAH I • Institute of Physics, UNAM • Dr. José Luis Ruvalcaba-Sil

In addition to the PhD project, a large variety of multidisciplinary investigations were supported as part of the LANCIC and the ANDREAH. For these investigations, the variety of materials included Pre-Hispanic objects (polychrome ceramics, metal artifacts, lithic and lapidary: green stones, turquoise, obsidian), Novo-Hispanics pieces (oil and mural paintings, polychrome sculptures, documents - codices, maps and canvases, tiles),

historical objects (metal sculptures, wax reliefs, documents), and Modern Art (murals - encaustic, fresco and glass mosaic; oil and acrylic paintings).

Technical skill —

Imaging techniques:

IRR

*Ultraviolet-induced
fluorescent
imaging*

False Color

Spectroscopic techniques:

XRF

FTIR

Raman Spectrosc.

FORS

XRD

Colorimetry

Microscopy:

Optical Microsc.

SEM-EDS

Ion Beam Analysis

Techniques:

PIXE

Ionoluminescence

Publications

Articles:

M.D. Manrique-Ortega et al. (2020) Mater. Manuf. Processes, 35:13 1431-1445. DOI: 10.1080/10426914.2020.1743855

M.D. Manrique-Ortega et al. (2020) Spectrochim. Acta, Part A 234: 118205. DOI: <https://doi.org/10.1016/j.saa.2020.118205>

M.D. Manrique-Ortega et al. (2019) Spectrochim. Acta, Part A 217: 294-309. DOI: 10.1016/j.saa.2019.03.057

Valentina Aguilar et al. (2019) Appl. Spectrosc. 73:9 1074-1086. DOI: <https://doi.org/10.1177/0003702819848478>

Mitrani et al. (2016) Microsc. Microanal. 22:6 1304–1315. DOI: 10.1017/S1431927616012010

A. Delgado Robles et al. (2015) Heritage Sci. 3: 20-33. DOI: 10.1186/s40494-015-0048-z

Proceedings:

M.D. Manrique Ortega et al. (2014) Mater. Res. Soc. Symp. Proc. 1656: 293-307. DOI: <http://dx.doi.org/10.1557/opl.2015.2>

J.L. Ruvalcaba Sil et al. (2014) Mater. Res. Soc. Symp. Proc. 1656: 75-93. DOI: <http://dx.doi.org/10.1557/opl.2015.1>

M.D. Manrique-Ortega et al. (2015) Mater. Res. Soc. Symp. Proc. 1618: 17-29. DOI: <https://doi.org/10.1557/opl.2014.452>

W. Martínez Molina et al. (2012) Mater. Res. Soc. Symp. Proc. 1374: 215-226. DOI: <https://doi.org/10.1557/opl.2012.1391>