

A Look at Past Research on Loom and Loom Weight Digitization and 3D Scanning for the Virtual Reality Setting and a Proposal for Future Research within This Area of Study

By Jaime Bennett, MA Candidate La Sierra University



Photo Credit: Vera Kopecky, Loom Weights from Khirbat al-Balu'a.

**Photo Credit: Betty
Adams via my
phone.
In Situ
conservation of
Khirbat al-Balu'a
loom weights 2019
Dig Season.**



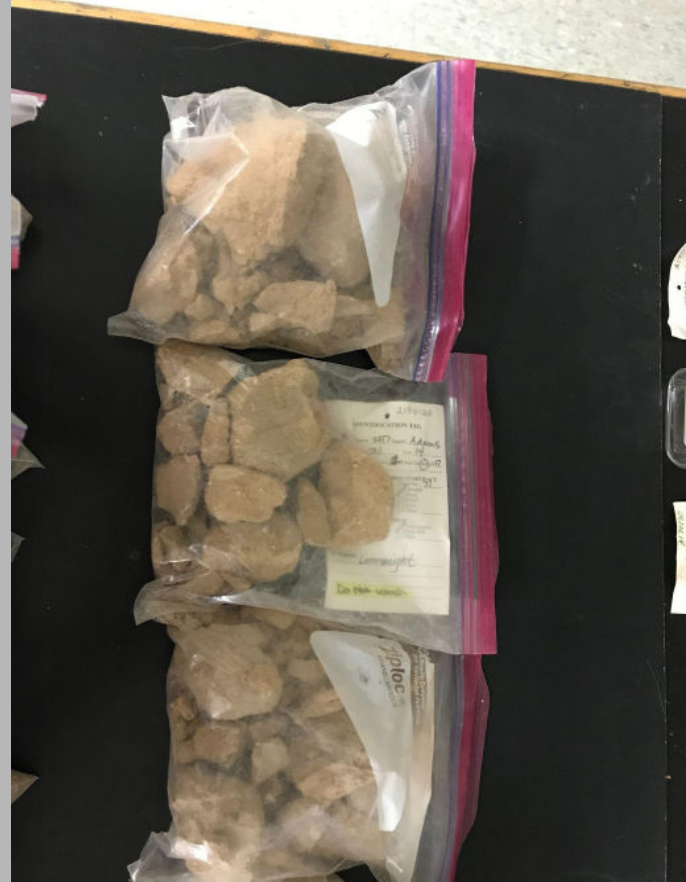


Photo Credit: Jaime Bennett
Broken and crumbling loom weights at the CNEA lab.

2D Photo of Loom Weight and Loom Weight Drawings



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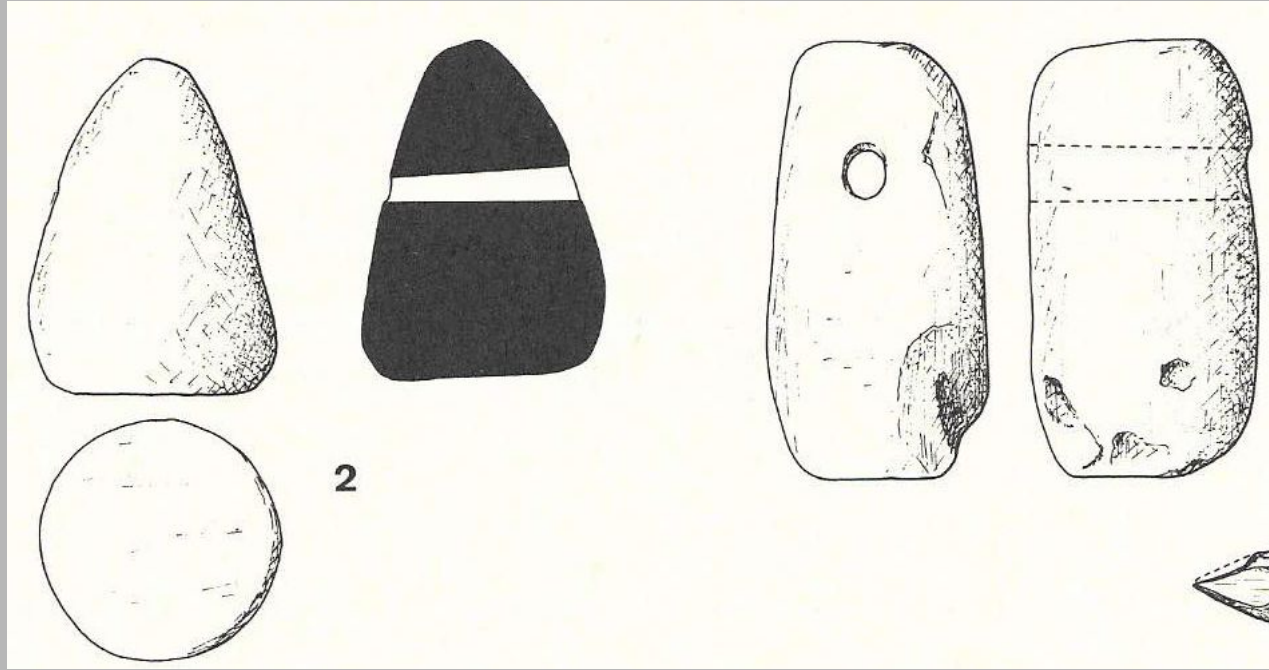


Photo 1 Credit: Bennett et al, 1989; Fig. 209.8. Photo 2 Credit: Dever et al, 1974; PLATE 40 #2 and 3.

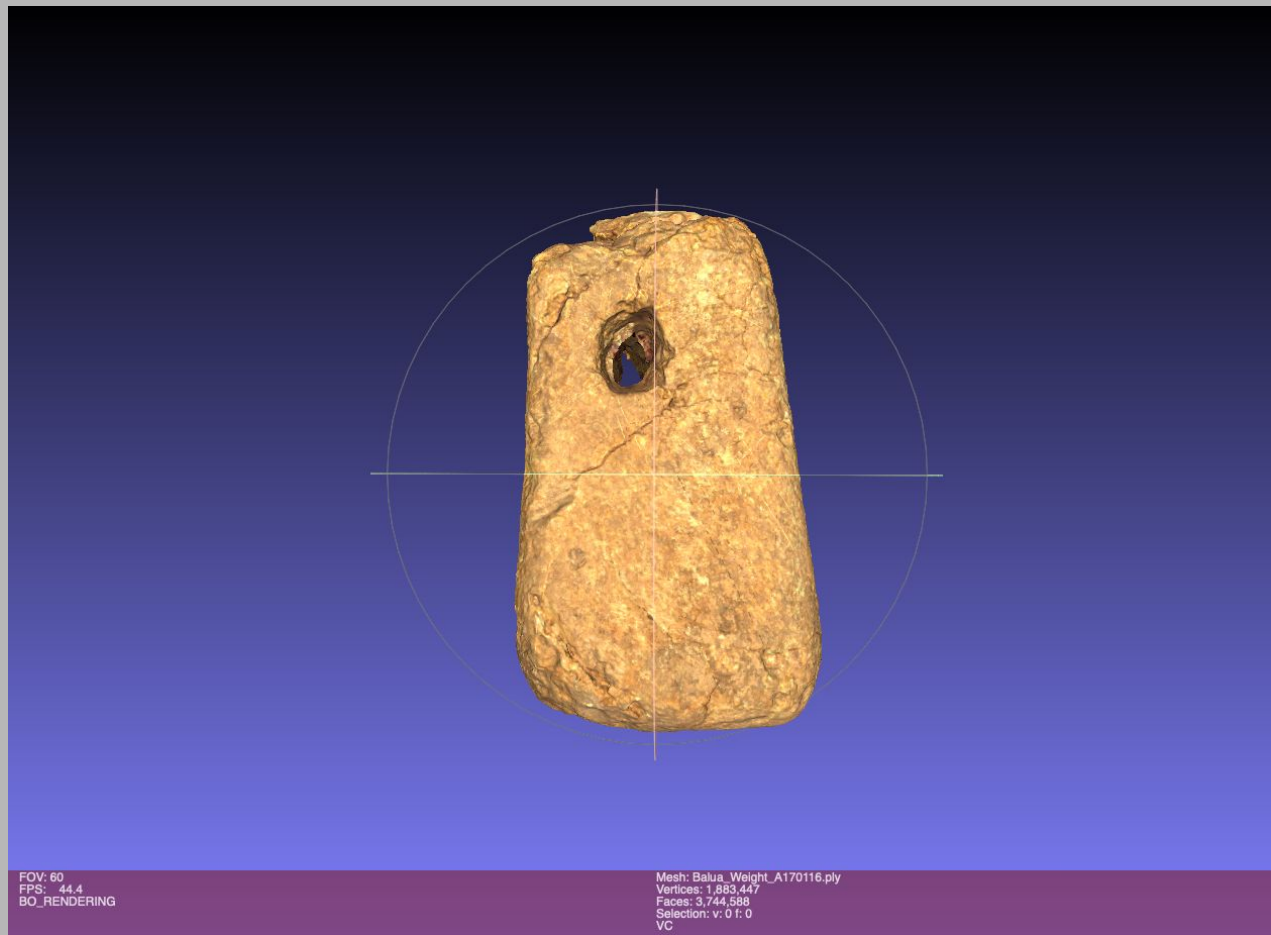
Table-top Scale Warp-Weighted Loom and Warp-Weighted Loom

Photo Credit 1 & 2: Mistress
Fiadnata ó Gleann Àlainn,
fiadnata.org



3D Scans of Loom Weights

Photo Credit: Dawn
Acevedo Photo shot of 3D
Scan of Loom Weight from
Khirbat al-Balu'a's.



FOV: 60
FPS: 44.4
BO_RENDERING

Mesh: Balua_Weight_A170116.ply
Vertices: 1,883,447
Faces: 3,744,588
Selection: v: 0 f: 0
VC

Studies Involving 3D Digitizing and Virtual Reality Of Textile Crafts

Andersson Strand E., et al. (2016)

Andersson Strand E. et al. (2017)

Partarakas, N., et. al. (2020)

Zang, L., et al. (2023)

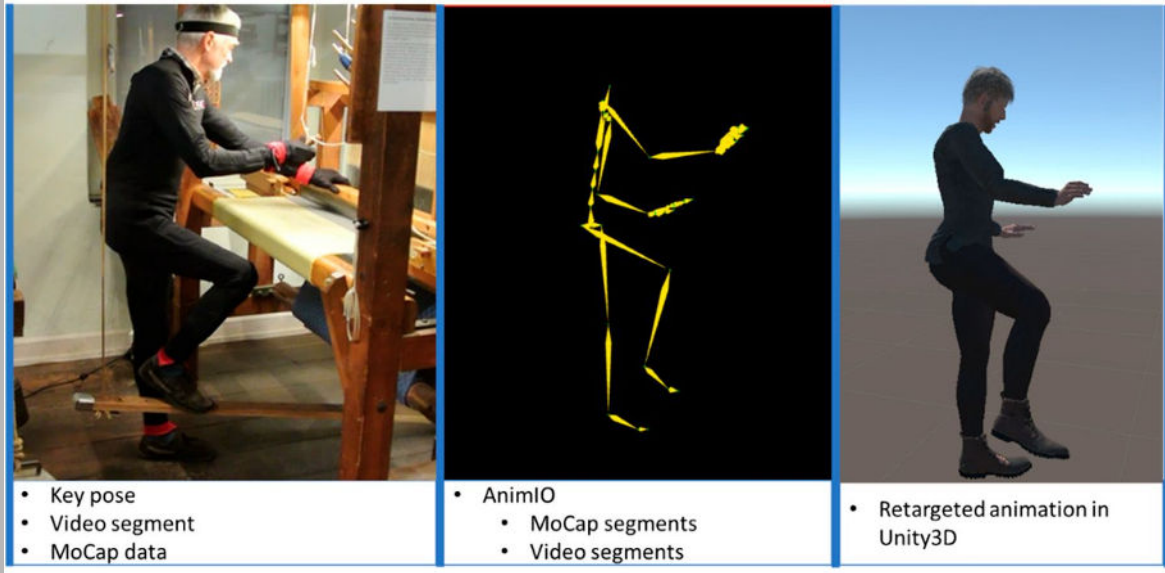


Photo Credit: Partarakis, N., (2020), 14.

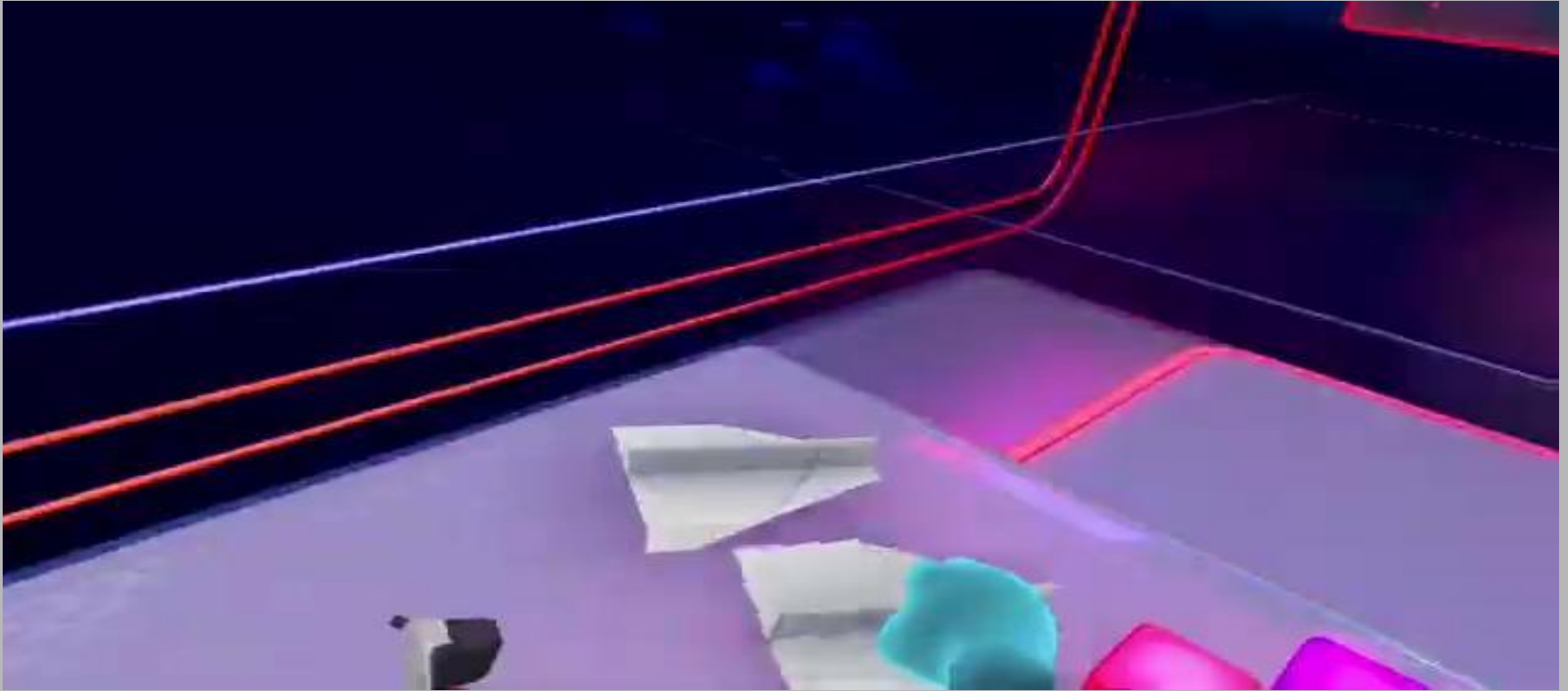


GIF Credit: Dawn Acevedo; Loom Weight A170107 from Khirbat al-Balu'a.

Motion Capture in Process



Photo Credit: Partarakis, N., et al. (2020), 13.



Video Credit: Adam Ross, Oculus 2 Tutorial. Video cast from his phone.

BIBLIOGRAPHY

