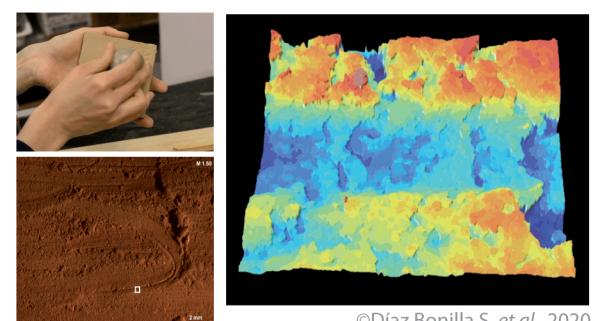


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```
def test_label_predictions(model, device, test_loader):
    model.eval()
    predictions = []
    with torch.no_grad():
        for data, target in test_loader:
            data, target = data.to(device), target
            output = model(data)
            prediction_mod(output, 'sheep')
            prediction_mod(output, 'goat')
            prediction_mod(output, 'mouflon')
            prediction_mod(output, 'chamois'))
    return [i.item() for i in predictions]
```



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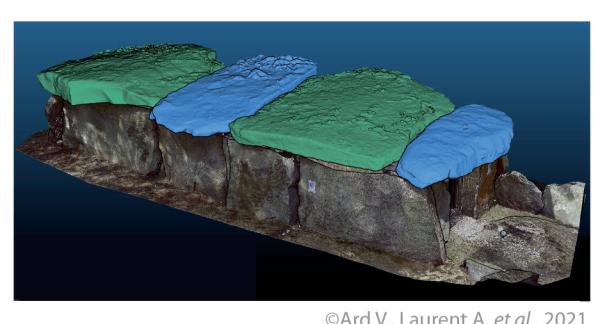
New methods of analysis by 3D Imaging and Artificial Intelligence applied to archaeological remains

Vendredi 22 octobre 2021
9h-17h

Maison de l'Étudiant
5 avenue François Mitterrand
06300 Nice

Sur inscription
Consultez le site cepam.cnrs.fr

Projet financé par le programme UCA-JEDI ANR-15-IDEX-01
Organisatrices : Vanna Lisa Coli & Laura Cassard



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Projet «Arch-AI-Story»

NICE
MAISON DE L'ÉTUDIANT
Olivier Chéneau

Master Préhistoire,
Paléoenvironnements,
et Archéosciences

Master Métiers du
Patrimoine, Histoire
de l'Art et Archéologie

MSc Data Science &
Artificial Intelligence

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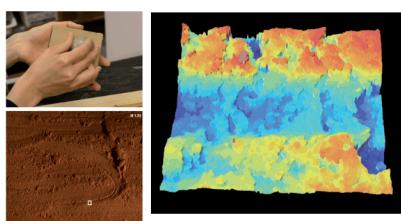
New methods of analysis by 3D Imaging and Artificial Intelligence applied to archaeological remains

Seminar program

9h00 - 9h30 Accueil des participantes et participants

9h30 - 9h45 **I.Théry-Parisot, V. L. Coli and L. Cassard**
Discours d'introduction

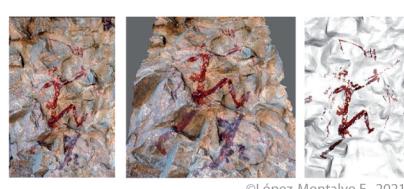
Session 1 : Analysis by 3D Imaging



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9h45 - 10h30 **S. Díaz Bonilla**

Exploring variability in ceramic surface treatments using confocal microscopy



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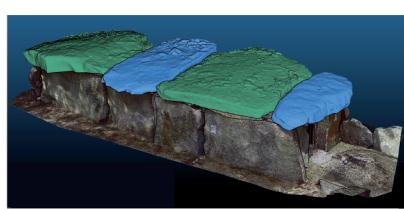
10h30 - 11h15 **E. López-Montalvo**

Application of 3D modelling in the study and documentation of Holocene parietal and portable graphic expressions

11h15 - 11h30 Coffee Break

11h30 - 12h15 **A. Laurent, V. Ard, V. Mathé, F. Lüth, É. Bouchet et E. Mens**

De la détection à l'analyse des sites monumentaux néolithiques en volume : premiers résultats de l'ANR Monumen



©Laurent A., Ard V. et al., 2021

12h15 - 14h00 Lunch Break

Session 2 : Analysis by 3D Imaging and Artificial Intelligence

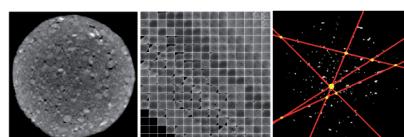


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14h - 14h45

L. Cassard, D. Binder, V. L. Coli, F. d'Errico, G. Durrenmath, J. Kaur, A. Queffelec, S. Sorin and J.-É. Yao

Prehistoric ornamental and symbolic productions. Method and on-going analytical development by 3D surface imaging and AI applied to Neolithic impressed ceramics and Palaeolithic engraved animal hard tissues



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14h45 - 15h30

K. Dia, V. L. Coli, L. Blanc-Féraud, J. Leblond, L. Gomart and D. Binder

Applications of Learning Methods to ancient ceramic manufacturing classification

15h30 - 15h45 Coffee Break

15h45 - 16h30

M. N. Do, F. Franco Gallo, V. L. Coli, P. Garberi, L. Gourichon and M. Vuillien

First consideration of using artificial intelligence to distinguish morphologically related species' bones in archaeozoology: defining the issues and the appropriate tools

```
def test(label, predictions(model, device, test_loader):
    model.eval()
    predictions = []
    with torch.no_grad():
        for data, target in test_loader:
            data, target = data.to(device), target
            output = model(data)
            prediction_mod(output, 'sheep')
            prediction_mod(output, 'goat')
            prediction_mod(output, 'mouflon')
            prediction_mod(output, 'chamois'))
    return [item[0] for item in predictions]
```



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16h30 - 17h

Table ronde et «tour d'écrans» animés par Vanna Lisa Coli et Laura Cassard