

Title: 3D Imaging of Fossils

Date: Sunday March 16th, 2025

Location: Room B140, Main Building, Mount Royal University

Time: 9:00 am to 12:00 noon

Fee: \$20.00 per person (No GST charged)

Registration: Please register by emailing giftshop@albertapaleo.org or register at one of the monthly meetings, or by mailing your cheque to the Society's mailing address at P.O. Box 68024 Crowfoot PO, Calgary, Alberta, T3G 3N8. Pay via cash, cheque or *Interac* E-transfer to payee: giftshop@albertapaleo.org. Make cheques payable to the Alberta Palaeontological Society. The deadline for registration is **March 9, 2025**.

Presenter: Dr. Emily Bamforth and Jackson Sweder (Curator and Head Technician at the Philip J. Currie Dinosaur Museum) and Atharva Roy.

Description: The use of three-dimensional (3D) imaging technology is becoming widespread in paleontology, having applications for field work, collections management, research, exhibits, and outreach. Much of this technology is now available to the public and easy to use, meaning that anyone with a smartphone, tablet, or laptop can create three-dimensional digital copies of their favorite fossils.

In this workshop, participants will 1) learn about the many uses of 3D imaging technology in paleontology, 2) be introduced to two specific types of 3D imaging: photogrammetry using the MetaScan and PolyCam applications, and 3D surface scanning using a hand-held light scanner, 3) see a demonstration of both types of technology used in real time, 4) have an opportunity to 3D scan their own fossil, and 5) learn about the editing programs available to make 3D scans into 3D printable files

Suggested Items to Bring

1. A fossil, ideally 2 cm to 10 cm in length, to 3D image. Note that we will also have some fossils available to try scanning.
2. If participants wish to try photogrammetry on their own devices (smartphones, tablets etc.), we recommend downloading and installing either MetaScan (<https://metascan.ai/>) or PolyCam (<https://poly.cam/tools/photogrammetry>). Both applications have a free trial option.
3. Note pad and paper for taking notes.

Registration is limited to 20 participants in each session, so register early.