



## openVertebrate Thematic Collections Network



2017-2021

CT-scan fluid-preserved vertebrate specimens

18 funded institutions, including 16 museums and 6 imaging center

grown to ~124 participating faculty, staff, and students in Year 3

trained > 100 faculty, scientists, and students in use of CT data



# Partner to Existing Networks, previously funded

oMEGA (<u>o</u>nline <u>M</u>etrology of <u>E</u>xtant <u>G</u>iant <u>A</u>nin

Pl Leif Tapanila, Idaho State University; 2018–2020



oUTCT: Outwardly Mobilizing the UTCT Vertebrate Archive for Research and Tra

Pl Jessie Maisano, University of Texas - Austin; 2019–2021



FuncQEE: Functional Quantitative Characters for Ecology and Evolution

Pl Noé de la Sancha, Chicago State University; 2019–2022



# Partner to Existing Networks, funded in 2020

CryptoVert: Digitizing small-bodied cryptobenthic fishes for the oVertTCN

PI Bill Ludt, Natural History Museum of Los Angeles County; 2020–2022

GalapaGateway: Unlocking Model Evolutionary Systems for Research and Educa

Pl Lauren Scheinberg, California Academy of Sciences; 2020–2022



oBird: 3D Photogrammetry of Specimens for Phenomics across the Avian Tree o

Pl John McCormack, Occidental College; 2020–2022

oMeso: Opening Mesoamerican Herpetofaunal Diversity to 2D and 3D Imaging

PI Emily Braker, University of Colorado at Boulder; 2020–2022





~3 years into project:

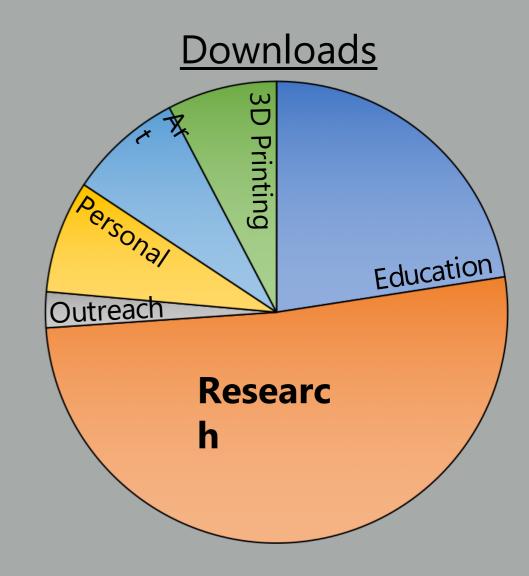
>25,000 media files of >8,300 specimens from >50 institutions available on MorphoSource

image stacks (.zip of TIFF) and 3D mesh files (.stl)

viewed >740,000 times, downloaded >31,000 times

most scans: 20-60 µm resolution

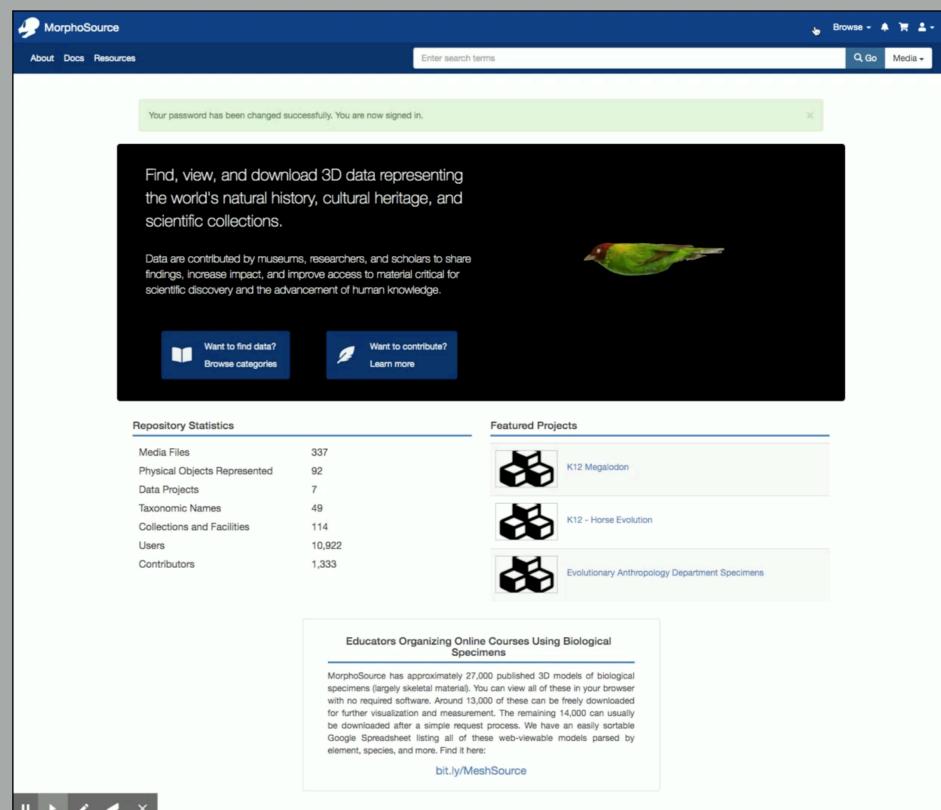








2020!





MorphoSource

Enter search terms

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### Skull [CTImageSeries] [Etc]

Represents: (Biological Specimen) (In Collection) DU:EA:469

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#### FILE OBJECT DETAILS

Media ID 000064768 Zipped Tiff Stack Short description Media type **CTImageSeries** File format(s) image/tiff File size

1,866,127,317 bytes

Full description Migrated MorphoSource 1 Media

> File Title: Zipped Tiff Stack Migrated MorphoSource 1 Media Group Title: microCT Volume File and Derivative Mesh Files Migrated MorphoSource 1 Media File Description: Correct chirality Migrated MorphoSource 1 Media Group Description: Correct chirality

Date created

Date uploaded November 28, 2018

Creator

#### 2 MEDIA RELATED TO SAME ACQUISITION EVENT





Skull [CTImageSeries] [Etc]

Skull [Mesh] [Etc]

### IMAGE ACQUISITION AND PROCESSING AT A GLANCE

Number of parent media 0

Number of processing events 1 (0 steps)

Derived directly from Skull [CTImageSeries] [Etc]

Modality MicroNanoXRayComputedTomogr

▼ Show more ▼

Device XTH 225 ST, Duke University

#### OWNERSHIP AND PERMISSIONS

Permits 3d use

Data managed by Mackenzie A. Shepard Publish with Restricted Download Download permission Download reviewer Rights statement Creative Common licenses Morphosource use agreement type Permits commercial use

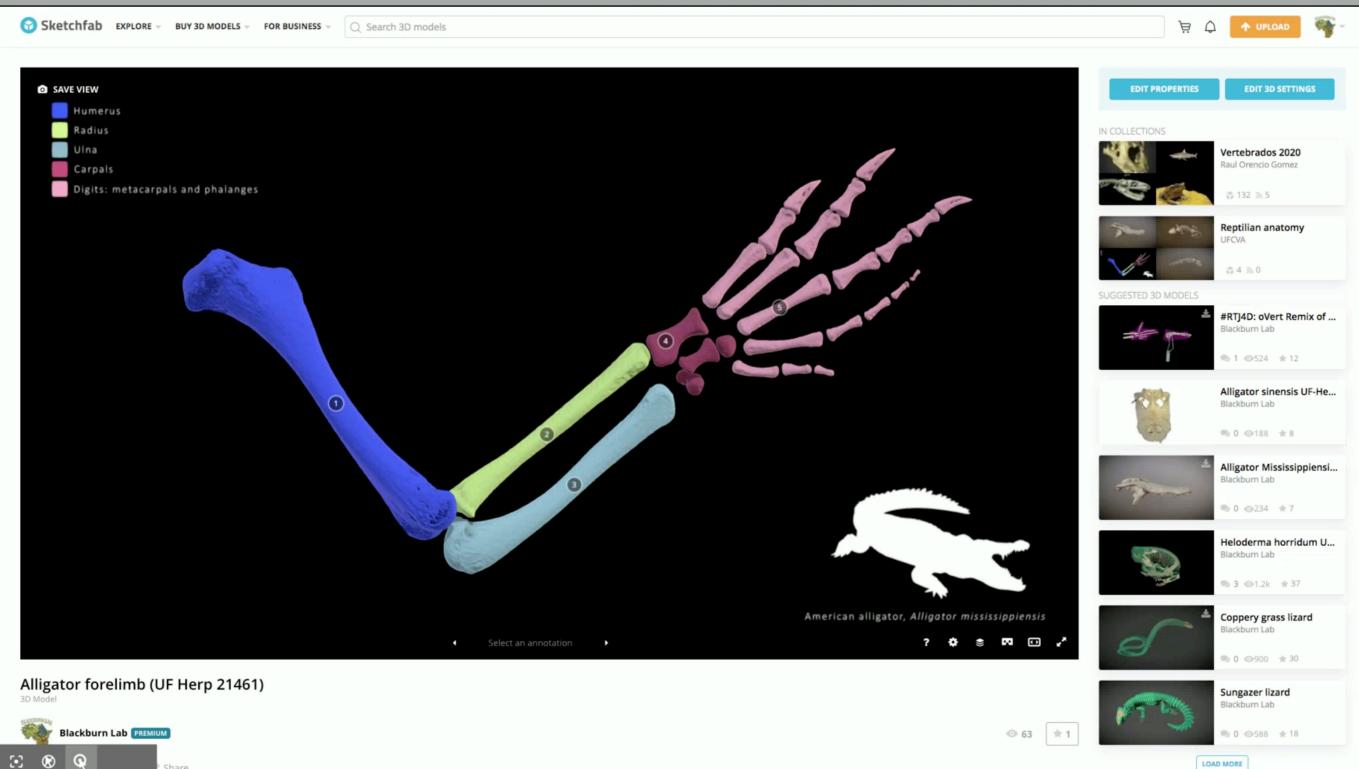
#### COLLECTIONS PHYSICAL OBJECT BELONGS TO

Evolutionary Anthropology Department Specimens

#### **MEDIA TAGS**

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Blackburn Lab PREMIUM



485

