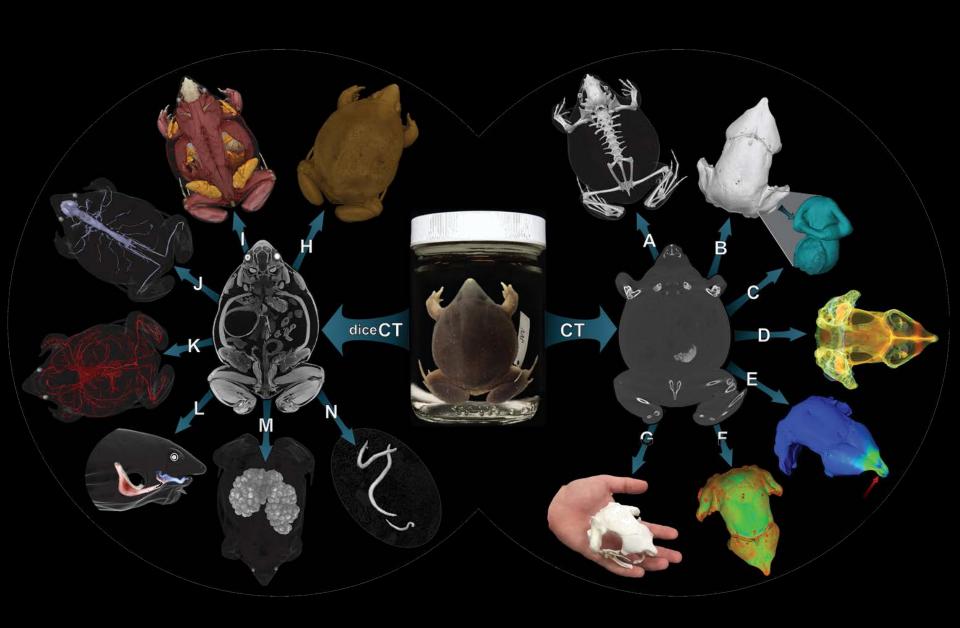
CT Scanning at the

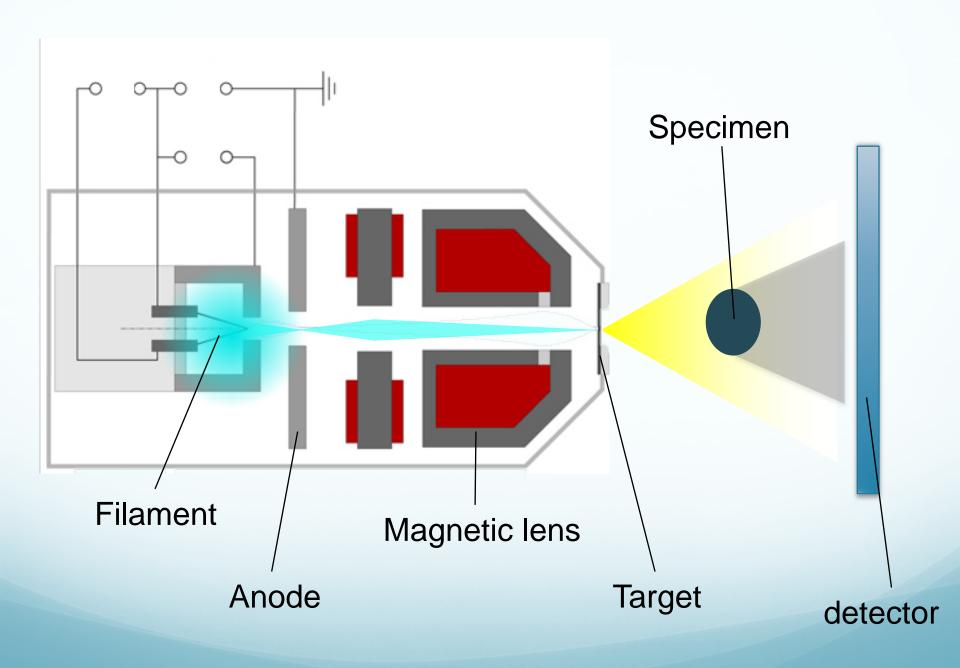




Phoenix VTome|x M

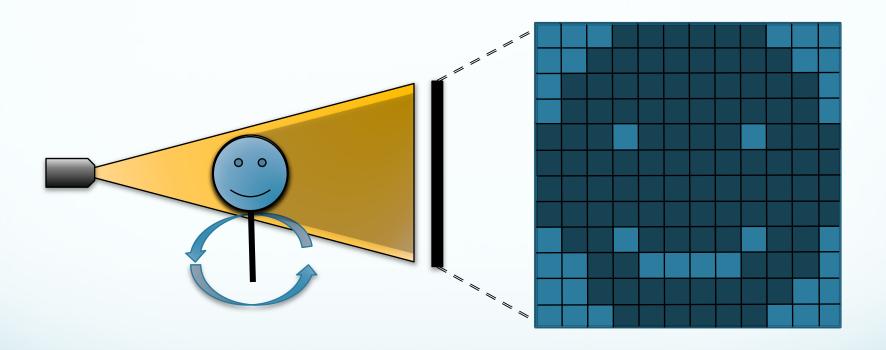


- Flexible
- Powerful
- Easy to use
- High throughput
- Training required
- Fee to use









CT Benefits

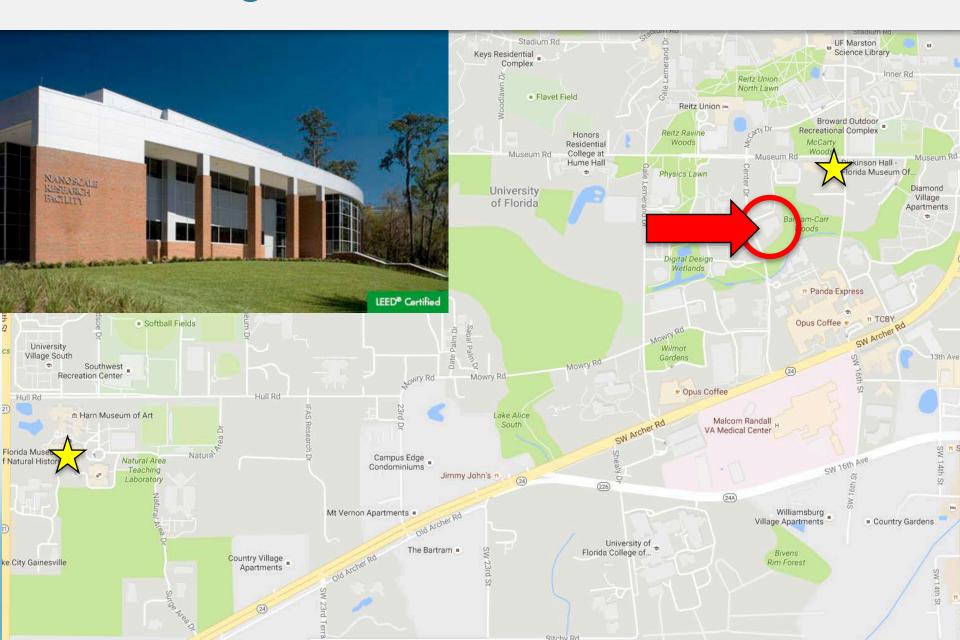
- Non-destructive
- Digital dissection
- High magnification
 - <1μm/voxel
- Novel measurements
- Quantitative analyses
- Fast, Accurate Results
- Easy to disseminate



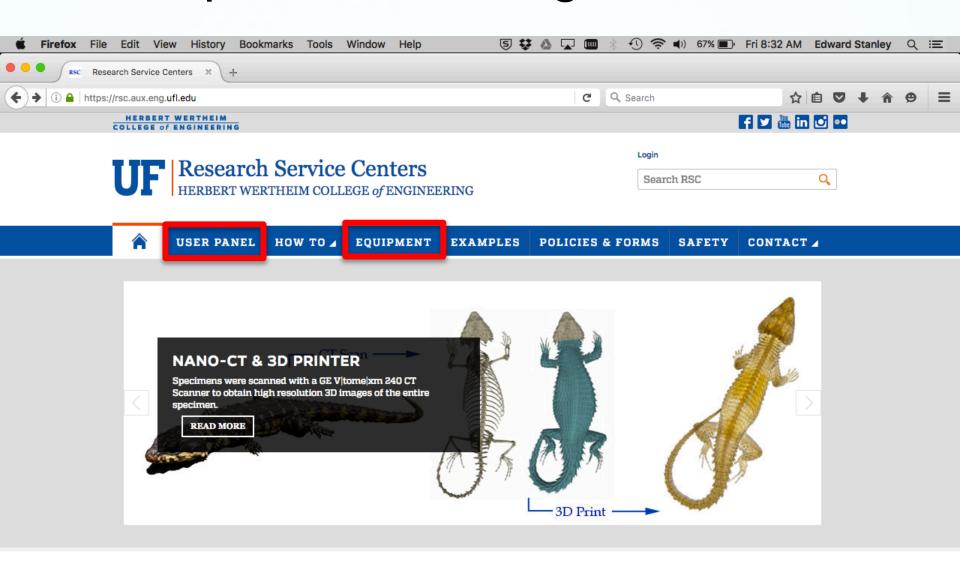
CT Scanning: Limits

- Relies on X-ray Absorption
 - Dense on Dense Contrast Poor
 - Light on Light Contrast Even Worse
 - Big Sample, Small Internal Structures Hard
- Cost
 - \$30/hr or \$180/12hrs at the NRF
 - Post-Processing Software Licensed \$\$\$\$
 - Need Very Expensive, Powerful Computer \$\$\$\$
 - Huge Data Sets = storage
- Sample Specific
 - Lethal to Living Specimens
 - Specimen must remain perfectly Still

Booking time on the UF CT scanner



https://rsc.aux.eng.ufl.edu/



NEWS & ANNOUNCEMENTS

About RSC

Posted on Tue, Aug 25, 2015 at 10:28 AM

https://rsc.aux.eng.ufl edu/



Capabilities Training

Planning the scan

- What questions are you asking?
- What measurements will you need to take?
- How many specimens will you need to scan?
- Optimization
 - Resolution
 - Spatial resolvability
 - Contrast
 - Density resolvability
 - Noise
 Speed

 Factor of Resolution and contrast



Data Handling

- Archiving
 - Lots of files
 - Large amount of memory (several GB per scan)
 - Files are sensitive to renaming and moving
 - Good idea to have a system in place BEFORE you scan

Transferring

- Short term Storage at the NRF (2 TB)
- >200Gb data for a day's work
- HiPerGator 2.0 will be installed soon
- Portable Hard drives
- EX-FAT

ABOUT BROWSE DASHBOARD

DIGITIZING THE FLORIDA MUSEUM ... \$ MEDIA CART | STATS |

21 Project Specimens



Order by: Specimen number | Taxonomic name

Digitizing the Florida Museum of Natural History's Herpetology collections

P211

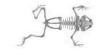
Part of an ongoing project to maximize the impact and accessibility of the collections at the Florida Museum of Natural History.

More Information: https://www.flmnh.ufl.edu/herpetology/home/

NEW PROJECT

MEDIA BIBLIOGRAPI	HY TAXONOMY FACILITIES
Project Members	David Blackburn, Edward Stanley
Number of Project Media Groups	18 Published with restricted download 4 Unpublished (22 total)
Number of Project Media Files	PUBLISH UNPUBLISHED MEDIA (4) 43 Published with restricted download 12 Unpublished (55 total)
Project Media Views/ Downloads	413/25
Storage used	4 GB
Number of Specimens	22
Number of Citations	0
Created On	April 4 2016 (20 days, 7 hours)







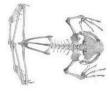


UF-11978, Sphenodon punctatus

UF-H- 124269, Anaxyrus quercicus

UF-H-100788, Spea multiplicata

UF-H-104862, Peltophryne guentheri









UF-H-137289, Smilisca baudinii

UF-H-14110, Sphenodon punctatus

UF-H-156936, Desmognathus auriculatus

UF-H-156938, Desmognathus







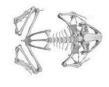


UF-H-157813, Desmognathus apalachicolae

UF-H-157832, Desmognathus apalachicolae

UF-H-3170-1, Anaxyrus terrestris

UF-H-39140, Atelopus ignescens









UF-H-3997-2, Anaxyrus fowleri

UF-H-43506, Kinosternon hirtipes tarascense

UF-H-45035, Kinosternon hirtipes

UF-H-61535, Draco blanfordii

www.morphosource.org Bit.ly/UFHerpMorph





