

# Intro to the course

Starts: 12:30PM  
Ends: 1:45Pm

# Today's Plan

- Welcome to WFSC 385 – Zoo and Aquarium Conservation!
- Introductions
- Course overview
- Zoo and Aquarium Certificate

Goal: To understand what to expect this semester



## Pre-course surveys

What words come to mind when you think about zoos and aquariums?

[https://PollEv.com/free\\_text\\_polls/a9HLRjRZtzIemnLgfozwB/respond](https://PollEv.com/free_text_polls/a9HLRjRZtzIemnLgfozwB/respond)

Or text

STUARTALLENW294 to 22333 to join then text your response

What one word comes to mind when you hear or see the word «captiveity»

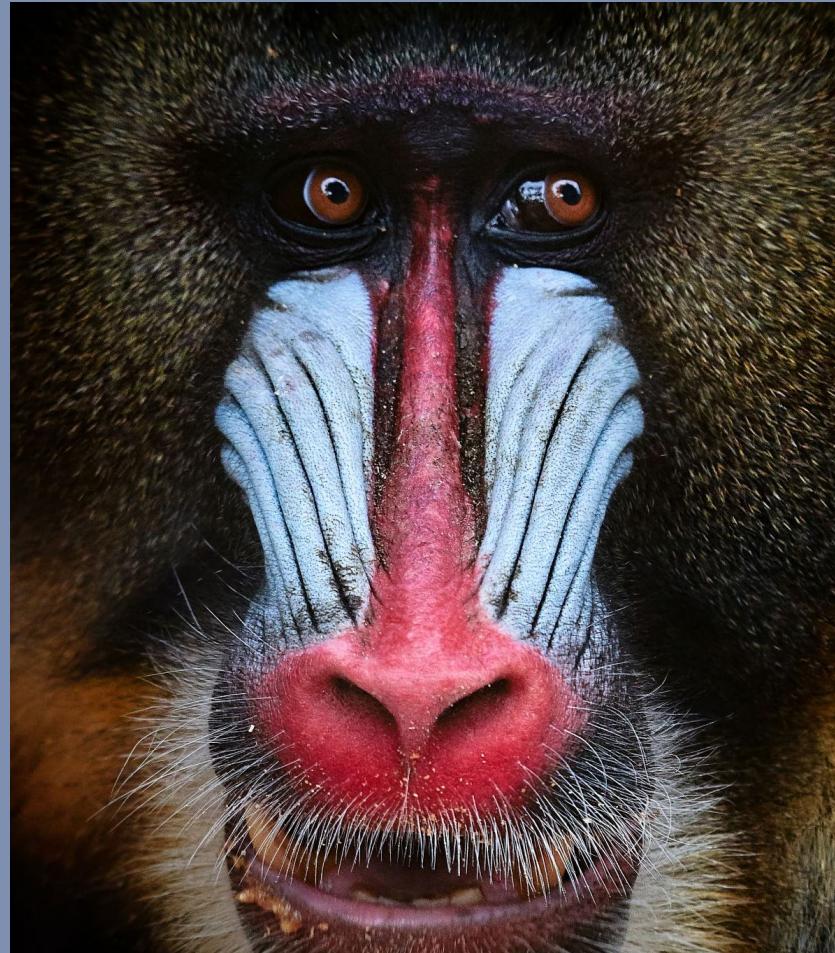
[https://PollEv.com/free\\_text\\_polls/aRtEApwZ0bXpqvgONkcCj/respond](https://PollEv.com/free_text_polls/aRtEApwZ0bXpqvgONkcCj/respond)

### Tell us about yourself:

Give one sentence on what you most want to gain from this course.

B) In less than 5 words + graphic, describe a hobby of yours

[https://jamboard.google.com/d/1jjzvWRTQsUXnwfYBk-zPldjz\\_kZ5F7sO9REcdHuLrZE/edit?usp=sharing](https://jamboard.google.com/d/1jjzvWRTQsUXnwfYBk-zPldjz_kZ5F7sO9REcdHuLrZE/edit?usp=sharing)



# My Career Path Overview

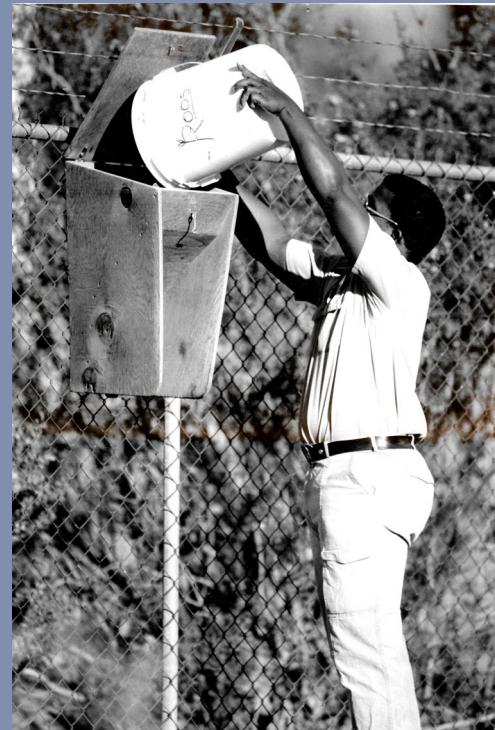
Places	Things
• Logansport Indiana	Rocks, Rivers, Trials, Bugs
• Northern Arizona University	Bachelors in Zoology
• ACNC –Phoenix Zoo	Animal Keeper
• Smithsonian Institution	Biological Technician
• Smithsonian Institution	Biologist
• Smithsonian Institution	Supervisory Biologist
• George Mason University	Masters of Science Cheetah behavior and physiology
• US Fish and Wildlife Service	Wildlife Biologist
• ACNC –Phoenix Zoo	Director of Animal Husbandry
• ACNC –Phoenix Zoo	Director of Conservation and Science
• University of Arizona	Doctoral Candidate



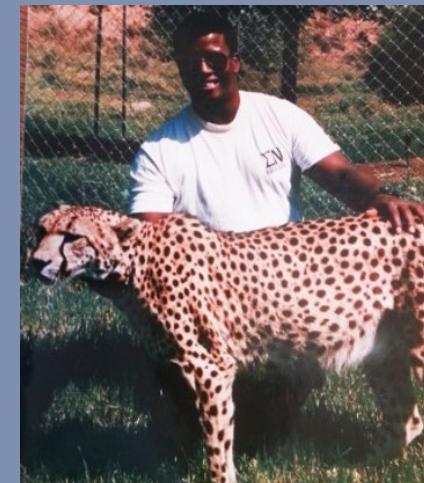
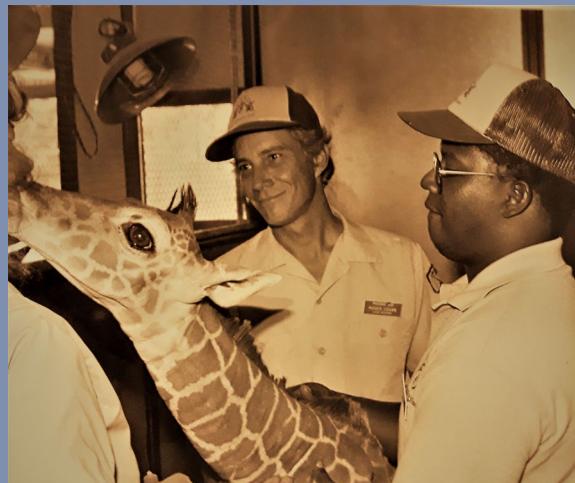
# Outline of this presentation

- My background
  - Your background and interests
- Short examples of experiences in each position
- My research interest
  - Developing effective ex situ management strategies for animals destined for reintroduction
- My focus on species management for recovery\
  - My focus is on bridging the gap between how animals are managed for reintroduction and wildlife managers understanding of the approaches being used.

# How it all began

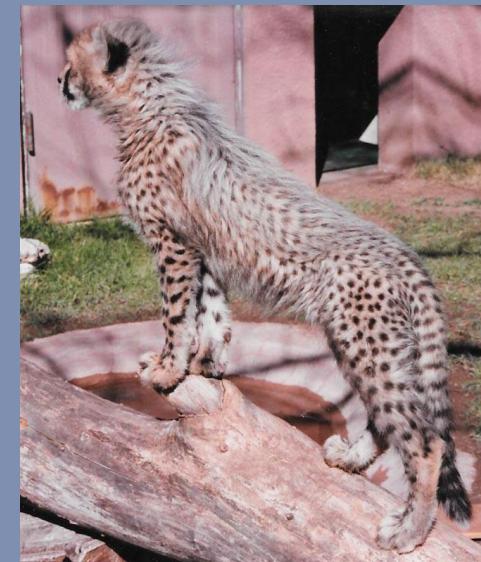
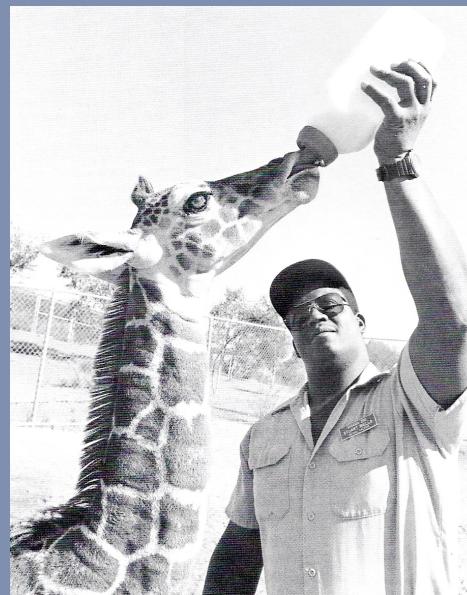


# Animal Keeper Experiences



## How I began my Animal Keeper career;

- Phoenix Zoo—Animal Keeper
  - Commissary
  - Savannah animals
  - Conservation awareness
    - Grevy's Zebra
    - Giraffe
    - Cheetah study
    - Black-footed ferret



# Black-footed Ferret Propagation

The Phoenix Zoo became involved with the ferret breeding program in 1992.



First ferret kits born in 1993

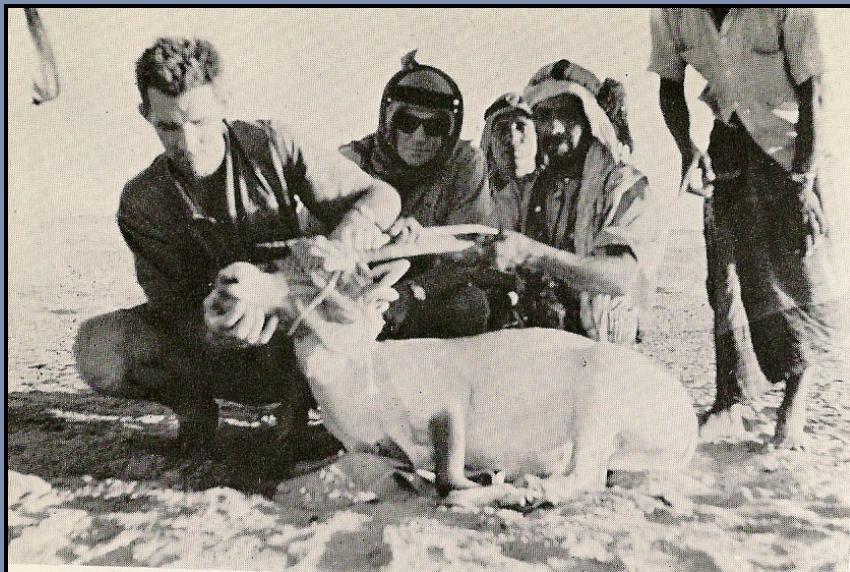


First ferret keepers 1992

# Operation Oryx

The Phoenix Zoo became involved with “Operation Oryx” in 1962.

The goal of this effort was to capture wild Arabian oryx, bring them to a zoo for propagation, and eventually reintroduce them into the wild.



# Operation Oryx



Photo : G. A. Shepherd.

THE ROAD INTO WADI DUAN.



Photo : M. H. Woodford.

CAREFULLY SECURING THE FIRST ORYX.  
Standing—C. K. Gracie.



Photo : M. H. Woodford.

Tony Shepherd.

Peter Whitehead.

Michael Crouch.

Mick Gracie.

Donald Stewart.

Major Grinwood is invisible behind Capt. Shepherd !



Photo : G. A. Shepherd.

THE FIRST ORYX BLINDFOLDED.  
Whitehead and Mabkhout holding the animal.

Operation Oryx  
goal was to  
capture the last  
surviving Oryx in  
Oman and use  
them to begin a  
breeding program  
at Phoenix Zoo  
for eventual  
release to the wild.

# Smithsonian National Zoo Experience

- Biological Technician
  - Developing cheetah conservation station
- Biologist
  - Overseeing conservation station management
- Supervisory Biologist
  - Managing animal keeper team working within the Cheetah Conservation Station

# Native Species Conservation Programs

**Black-footed ferret**

**Chiricahua leopard frog**

**Narrow-headed gartersnake**

**Native springsnail species**

**Native Fish species**

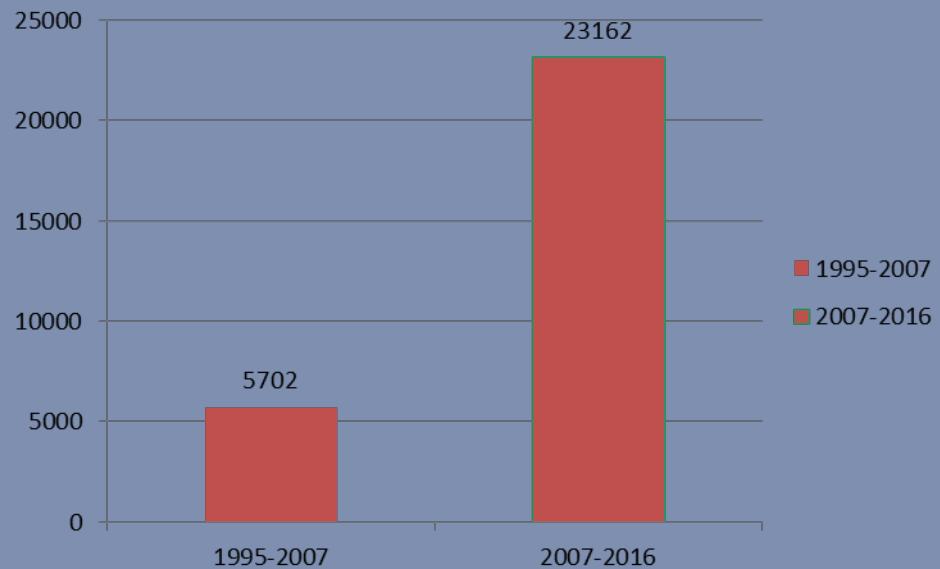
**Mount Graham red squirrel**

**California floater**

**Global conservation efforts**



# Making a Difference



All Arizona Populations	Year CLF + Breed		
Annual Total	2014	116	61
Annual Total	2015	151	65
Change from prior year		35	4
Extant in AZ as of 2007 (recovery plan page 5)	38	397%	

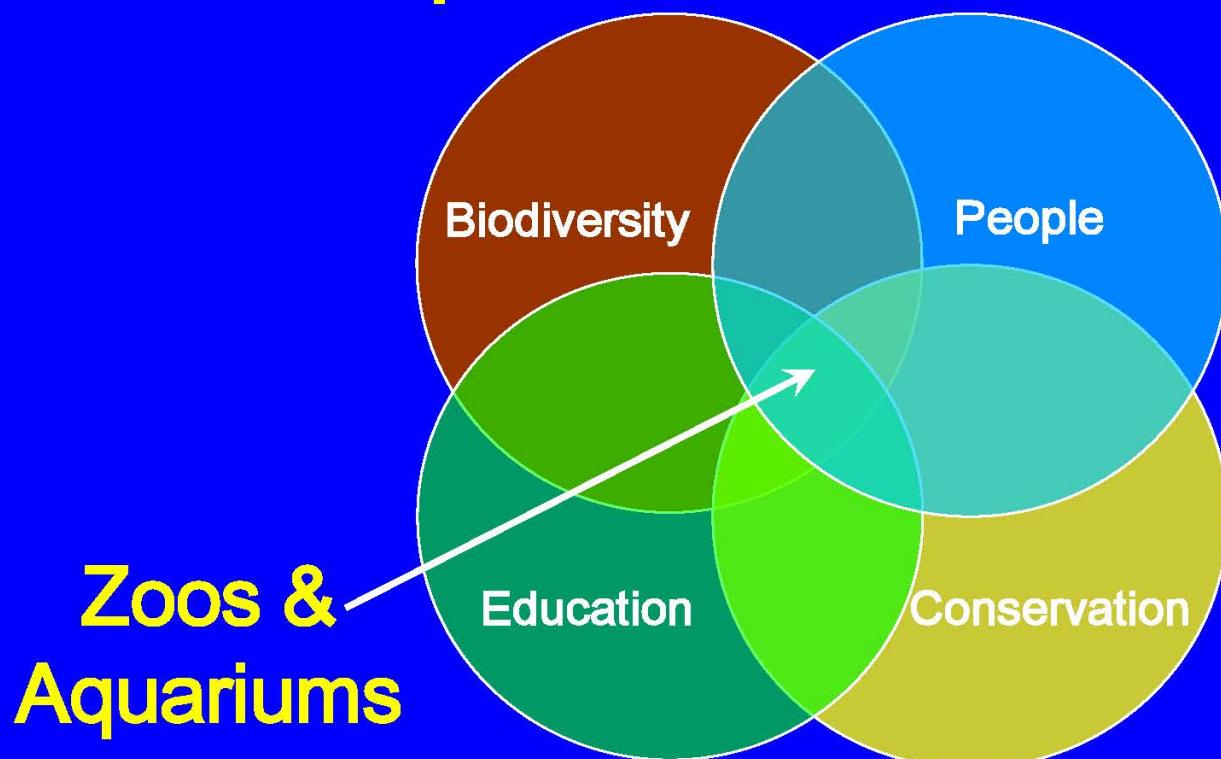




## A look at the course - what's under the hood?

- My approach to teaching this course
- Review of the course syllabus
- Questions???

# Venn Diagram of Zoo & Aquarium Conservation



# Course Overview

## Increasing Collaboration



Course of Semester

### Basics

Introduction to zoos and aquariums, types & a brief history

### Roles

The function and evolution of zoos and aquariums

### Education

Audience, messaging and approaches

### Care & Husbandry

Daily care, enrichment & reproduction

### Linkage with Conservation

*In situ* and *ex situ* efforts



# Zoos & Aquariums: Our Semester Ahead



<https://www.yahoo.com/news/henry-doorly-zoo-aquarium-hosts-224917098.html>

<https://www.youtube.com/watch?v=EH7SirMh2s>