

Primates and Cetaceans: Contrasts and Parallels

Prof: Christine M. Johnson

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Required: TEXT: **Dolphin Communication & Cognition** (2015) Herzing & Johnson**

Additional REQUIRED Readings available as pdfs on Class Website - see reverse for complete Reading List

FIELD TRIP FEE \$12.00 Due in class All students must sign *Waiver* for required field trip

See class website for lecture notes, readings, assignments, etc: <http://www.cogsci.ucsd.edu/~johnson/COGS143/>

Week	Date	Topic	Readings	Activities & Due Dates
1	T 1/7 Th 1/9	Defining Features: Primates Defining Features: Cetaceans	Ghazanfar & Santos, 2004 **Hanke & Erdsack 2015	Pay for Zoo Field Trip
2	T 1/14 Th 1/16	Brains: Primates Brains: Cetaceans	Platt, Seyfarth & Cheney 2017 **Marino, 2015	
3	T 1/21 Th 1/23	Foraging Skills: Primates <i>Field Trip</i> SAN DIEGO ZOO (NO class meeting) Meet at Peterson Turnaround @ 12:30 (or at Zoo Gate @ 1:00)	Janson & Byrne 2007 40 Pts	Sun 10/22: Alternative Zoo Trip ; Meet at <i>Noon</i> at Zoo
4	T 1/28 Th 1/30	Foraging Skills: Cetaceans Continuation & Review	Herzing & dos Santos 2011	
5	T 2/4 Th 2/6	MIDTERM 1 (150 Pts) Communication: Primates	 Liebal & Call, 2012	Film Night Wed 2/5 6 pm Place TBA (10 points Extra Credit)
6	T 2/11 Th 2/13	Communication: Cetacean Social Learning	**Herzing, 2015 Rendell & Whitehead, 2001	
7	T 2/18 Th 2/20	Social Complexity Continuation & Prep for Presentations	de Waal 1997	Fri 2/21 7 pm Place TBA Discussion: Speaking Delphinese READ: **Lammers & Oswald, 2015 (10 pts Extra Credit)
8	T 2/25 Th 2/27	Emergence of Prosociality Social Attention	Silk & House 2011 Whiten, 2013	
9	T 3/3	MIDTERM 2 (<i>Comprehensive</i> , 150 Pts)		
	DUE: Thurs 3/5	Paper Proposal w/Refs 10 Pts	(See GUIDELINES on class website)	
	Th 3/5	GUEST SPEAKER – Gloria Brattich: Tool Learning in Bonobos	(10 points Extra Credit)	
10	T 3/10 Th 3/12	Create-a-Species Presentations 100 Pts - Prof & Peer Evaluated; Non-Presenters <u>required</u> to attend. See GUIDELINES on class website	Teams of 4 will present 3/10, 3/12 & 3/17	
Final	Tuesday March 17 (11:30-2:30)	Final Presentations & Wrap Up	DUE: Final Paper 10 pages 100 Pts Tues 3/17 or Before! (Extra Credit for early papers!)	

TOTAL: 550 Pts + Ex Cred

REQUIRED READINGS

**Starred readings from Text:

D.L. Herzing & C.M. Johnson (Eds) *Dolphin Communication & Cognition*. MIT Press

Text available at Bookstore. Other readings available as PDFs on class website.

Part I:

Ghazanfar, A. A. & Santos, L. R. (2004) Primate brains in the wild: The sensory bases for social interactions. *Nature reviews: Neuroscience*, 5: 603-616.

**Hanke & Erdsack (2015) - *Chapt 3: Ecology & evolution of dolphin sensory systems*, pp: 49-74.

Platt, M.L., Seyfarth, R.M. & Cheney, D.L. (2017). Adaptations for social cognition in the primate brain. *Phil Roy Trans B*, 317

**Marino. L. (2015) - *Chapt 1: The brain – evolution, structure and function*, pp: 3-18.

Janson, C. H. & Byrne, R. (2007) What wild primates know about resources: Opening up the black box. *Animal Cognition* 10:357-367

Herzing, D.L. & dos Santos, M. E. (2001) Functional aspects of echolocation in dolphins. In J.A. Thomas, C. F. Moss & M. Vater (Eds) *Echolocation in Bats and Dolphins*. Chicago: University of Chicago Press.

Part II:

Liebal & Call (2012) The origin of non-human primates' manual gestures. *Phil. Trans. Roy. Soc. B*, 367: 118-128.

**Herzing, D.L. (2015) *Chapt 6: Making sense of it all: Multimodal dolphin communication*. pp: 139-171.

Rendell, L. & Whitehead H. (2001). Culture in whales and dolphins. *Behavioral and Brain Sciences*, 24: 309-324

de Waal, F.B.M. (1987) Dynamics of social relationships. In B. Smuts et al. (Eds) *Primate Societies*, pp: 421-429. Chicago: University of Chicago Press.

Silk, J.B. & House, B.R. (2011) Evolutionary foundations of human prosocial sentiments. *PNAS* 108: 10910-10917.

Whiten, A. (2013) Humans are not alone in computing how others see the world. *Animal Behaviour* 86: 213-221.

For “Speaking Delphinese” Discussion, Friday, Feb 21

**Lammers & Oswald (2015) *Chapt 5: Analyzing the acoustic communication of dolphins*, pp: 107-138.

NOTE on COURSE WEBSITE

<http://www.cogsci.ucsd.edu/~johnson/COGS143/>

The website for this course is an important and useful resource. It includes:

- Copy of the course **Syllabus**
- **Lecture Notes** and pertinent background material
- PDFs of some **Required Readings** for the course (Required Text available at **Bookstore**)
- **Guidelines** (for presentation, final paper, etc.) and **Answer Sheets** (for Field Trip Surveys)
- **Links** to relevant sites on cetaceans and primates, including references and research & educational opportunities
- **Announcements** regarding class activities, assignments, changes, etc.

Please check the site regularly as it will be continually updated!