

## SHARON T. POCHRON

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### PROFESSIONAL POSITIONS HELD:

- 2012-present **Full Time Lecturer**, Dr. Heidi Hutner, Sustainability Studies Program, Stony Brook University, Stony Brook, NY
- 2011-2012 **Adjunct Professor**, Dr. Martin Schooner, Sustainability Studies Program, Stony Brook University, Stony Brook, NY
- 2010-present **Adjunct Professor**, Dr. Lynn Liebert Marx, Department of Social Sciences, Suffolk County Community College, Brentwood, NY
- 2006-present **Science Writer for Children**, Publishers include Highlights, Science News for Kids, Muse Magazine, Boyds Mills Press
- 2005-present **Novelist**, Wrote nine novels for Kensington under a pen name. Agent: Sanford J Greenburger
- 2005-2006 **Biostatistician**, Dr. Jeffrey Levinton, Ecology and Evolution, Stony Brook University, Stony Brook, NY
- 2005-2005 **Science Writer for Adults**, Publisher includes Natural History Magazine
- 2003-2005 **Assistant Research Professor**, Department of Anthropology, Stony Brook University, Stony Brook, NY
- 2000-2003 **Postdoctoral Fellow**, Under Patricia C. Wright, Stony Brook University, Stony Brook, NY

### DEGREES:

- 1999: **PhD**, Anthropology. University of New Mexico, Albuquerque. "Tests of Food Selection Models—Yellow Baboons (*Papio c. cynocephalus*), Ruaha National Park, Tanzania."
- 1992: **MS**, Anthropology, minor Biology, honors. University of New Mexico, Department of Anthropology, Albuquerque, NM. Advisors: JB Lancaster, H Kaplan.
- 1989: **BA**, Biology and Anthropology. Franklin and Marshall College, Lancaster, PA.

### CURRENT RESEARCH:

Pochron runs the Sustainability Studies Earthworm Ecotoxicology Lab. The lab has investigated the role of acid rain, fertilizer, Roundup and cadmium on earthworm health and mortality and on soil microbial activity. The lab allows students to plan and conduct important and interesting research, propose and manage budgets, write papers and posters, give public presentations, and learn the scientific method. As of December 2014, more than 80 students have conducted research in this lab. In 2014, we had three posters at the Earthstock Keynote and at URECA. In 2013, we had two. In 2012, we had one. We plan on having three or four at this year's event. We also plan on having a presence at Earthstock itself.

### PUBLICATIONS:

- Sahebzada N, **S. Pochron** (In prep). The effect of plant vascular transportation of glyphosate on earthworm health and survivorship. *Journal of Soil Ecology*.
- Pawirosetiko J, Stoffenberg, A, Sahebzada N, Sahebzada S, **Pochron** (In prep). The long-term

- and short-term effects of Roundup and soil fertilizer on earthworm body mass and biomass. *Journal of Soil Ecology*.
- Mahoney K, **Pochron, S (in prep)**. The effects of Roundup and soil type of earthworm biomass. *Journal of Soil Ecology*.
- Flores A, Carvajal G, Holeman K, Kennard M, Linton T, Mahoney K, Pawirosetiko J, Pena V, Sgueglia J, Smalley A, Sperber S, Swierski E, **Pochron, S (in review)** The effect of simulated acid rain on earthworm biomass. *Ecotoxicology and Environmental Science*.
- Levinton JS, **Pochron ST**. (2008) Changes in mercury content in seven species of fish over a 30-year period in the New York Finger Lakes. *Environmental Science and Technology*
- Levinton JS, **Pochron ST**, Kane MW. (2006) Superfund dredging restoration results in widespread regional reduction in cadmium in blue crabs. *Environmental Science and Technology*
- King SJ, Arrigo-Nelson SJ, **Pochron ST**, Semprebon GM, Godfrey LR, Wright PC, Jernvall J. (2005) Dental senescence in a long-lived primate links infant survival to rainfall. *Proceedings of the National Academies of Science* 102:16579-16583.
- Pochron ST**, Morelli TL, Terranova P, Scirbona J, Wright PC. (2005) Sex differences in scent marking in *Propithecus edwardsi* of Ranomafana National Park, Madagascar. *American Journal of Primatology*. 66:97-110.
- Wright PC, Razafindratsita T, **Pochron ST**, Jernvall J. (2005) The key to Madagascar frugivores. In: Tropical Fruits and Frugivores: The Search for Strong Interactors, (Dew JL, Boubli H. eds.). New York, NY, Springer.
- Pochron ST**, Wright PC. (2005) Dance of the sexes: a lemur needs some unusual traits to survive in Madagascar's unpredictable environment. *Natural History*. 6:34-39.
- Pochron ST**, Morelli TL, Terranova P, Scirbona J, Cohen J, Rakotonirina G, Ratsimbazafy R, Rakotosoa R, Wright PC. (2005) Patterns of male scent marking in *Propithecus edwardsi* of Ranomafana National Park, Madagascar. *American Journal of Primatology*. 65:103-115.
- Pochron ST**. (2005) Does relative economic value of food elicit purposeful encounter in the yellow baboons (*Papio hamadryas cynocephalus*) of Ruaha National Park, Tanzania? *Primates*. 46:71-74.
- Pochron ST**, Wright PC. (2005) Testes size and body weight in the Milne-Edwards' sifaka of Ranomafana National Park, Madagascar, relative to other strepsirrhine primates. *Folia Primatologica*. 76:37-41.
- Pochron ST**, Tucker WT, Wright PC. (2004) Demography, life history and social structure in *Propithecus diadema edwardsi* from 1986 to 2000 of Ranomafana National Park, Madagascar. *American Journal of Physical Anthropology*. 125:61-72.
- Pochron ST**, Fitzgerald J, Gilbert CC, Lawrence DM, Grgas M, Rakotonirina G, Ratsimbazafy R, Rakotosoa R, Wright PC. (2003) Patterns of female dominance in (*Propithecus diadema edwardsi*) of Ranomafana National Park. *American Journal of Primatology*. 61:173-185.
- Pochron ST**, Wright PC. (2003) Variability in adult group compositions of a prosimian primate *Behavioral Ecology and Sociobiology*. 54:285-293.
- Wright PC, **Pochron ST**, Haring D, Simons E. (2003) Can we predict seasonal behavior and social organization from sexual dimorphism and testes measurements? In: The Tarsiers: Past, Present and Future, (Wright PC, Simons EL, Gursky S. eds.) Rutgers NJ, Rutgers University Press. pp. 260-275.
- Pochron ST**, Wright PC. (2002) Dynamics of testes size compensates for variation in male body-size. *Evolutionary Ecology Research*. 4:1-9.

- Pochron ST**, Wright PC, Schaentzler E, Ippolito M, Rakotonirina G, Ratsimbazafy R, Rakotosoa R. (2002) Effect of season and age on the gonadosomatic index of Milne-Edward's sifakas (*Propithecus diadema edwardsi*) in Ranomafana National Park, Madagascar. *International Journal of Primatology*. 23(2):355-364.
- Pochron ST**. (2001) Can concurrent speed and directness of travel indicate locational knowledge in the free-ranging yellow baboons (*Papio h. cynocephalus*) of Ruaha National Park, Tanzania? *International Journal of Primatology*. 22(5):773-785.
- Pochron ST**. (2000) Sun avoidance behavior in yellow baboons of Ruaha National Park, Tanzania: variations with season, behavior and weather. *International Journal of Biometeorology*. 44(3):141-147.
- Pochron ST**. (2000) The core dry-season diet of yellow baboons (*Papio cynocephalus cynocephalus*) in Ruaha National Park, Tanzania. *Folia Primatologica*. 71(5):346-349.
- Pochron ST**. (1999) Tests of Food Selection Models—Yellow Baboons (*Papio cynocephalus cynocephalus*), Ruaha National Park, Tanzania. Ph.D. Dissertation from the University of New Mexico, Albuquerque.

#### **ACADEMIC PRESENTATIONS:**

- Dunham AE, Wright PC, Overdorff D, **Pochron ST**, Arrigo-Nelson SJ, Morelli T, Ratelolahy F, Ratsimbazafy R. (2005) Population viability of the endangered Milne Edward's Sifaka (*Propithecus edwardsi*). *American Journal of Physical Anthropology*. (Suppl 40, pg. 97).
- Pochron ST**, Morelli TL, Terranova P, Scirbona J, Cohen J, Rakotonirina G, Ratsimbazafy R, Rakotosoa R, Wright PC. (2005) Patterns of scent marking in *Propithecus edwardsi* of Ranomafana National Park, Madagascar. *American Association of Physical Anthropology in Milwaukee, Michigan*.
- Pochron ST**, Wright PC. (2004) Demography social structure and survival in *Propithecus edwardsi*. *Conservation Biology in Manhattan, New York*.
- Pochron ST**, Wright PC. (2004) The Jack Sprat hypothesis: diet competition in a female-dominant species. *American Association of Physical Anthropology in Tampa, Florida*.
- King SJ, **Pochron ST**, Wright PC, Jernvall J. (2004) Losing the edge: tooth wear and life history in rainforest sifakas of Madagascar. *American Association of Physical Anthropology in Tampa, Florida*.
- Pochron ST**, Wright PC. (2004) Prime-aged males lose to females. *International Society of Primatologists in Torino, Italy*.
- Pochron ST**, Wright PC. (2003) The effect of age on intra- and intersexual aggression in a wild Malagasy primate: the Milne-Edwards' sifaka, *Propithecus diadema*. *American Society of Primatologists in Calgary, Canada*.
- Pochron ST**, Wright PC. (2001) Predicting the number of males: a long-term view of the operational sex ratios from *Propithecus diadema edwardsi* in Ranomafana National Park, Madagascar (1986-2000) *American Society of Primatologists in Savannah, GA*.
- Pochron ST**. (2000) Can concurrent speed and directness of travel indicate locational knowledge in the free-ranging yellow baboons (*Papio h. cynocephalus*) of Ruaha National Park, Tanzania?. *American Society of Primatologists in Boulder, CO*.
- Pochron ST**. (1999) Do baboons vary sun-avoidance behavior with season and activity? *American Society of Primatologists meetings in New Orleans, LA*.
- Pochron ST**. (1999) Using differential Global Positioning and Attribute Collection Systems to map locations and record behaviors of free-ranging primates. Workshop entitled,

"Technology in the Wild: A Workshop on the Technological Advances in Field Primatology," American Society of Primatologists meetings in New Orleans, LA.

**Pochron ST.** (1993) How does knowledge of food's location influence baboon foraging behavior. Human Behavior and Evolution Society meetings, Ann Arbor, MI.

**Pochron ST.** (1992) Promiscuous matings and female primates: a review of the limited-sperm hypothesis. Human Behavior and Evolution Society meetings, University of New Mexico, Albuquerque, NM.

**Pochron ST.** (1991) A new method for the analysis of primate life histories. Human Behavior and Evolution Society meetings, McMasters University, Toronto, Canada.

### **ACADEMIC HONORS:**

2004: Honorable Mention L'Oreal-UNESCO for Women in Science Award.

1992: Masters Comprehensive Examination: Passed with distinction.

### **PUBLIC OUTREACH:**

- Introduced high-school students to life as a scientist. Riverhead High School, January 2012, 2013, 2014.
- LISEF science-fair judge, 2013, 2015
- Brings local high-school students into the lab to work with undergraduates conducting ecotoxicology research.
- Introduced high-school freshmen to Human Behavioral Ecology and the Sustainability Studies Program through a talk about the Yanomamo tribe and Jersey Shore. Miller Place High School, October 2012.

### **PROFESSIONAL ACTIVITIES:**

- Reviewed manuscripts submitted to *International Journal of Primatology*, *American Journal of Primatology*, *Journal of Mammalogy*, *Journal of Zoology* in the previous 12 months.
- Reviewed chapter for book edited by Janette Wallis.
- Reviewed several National Science Foundation grants.
- Member of *Animal Behavior Society*, the *American Society of Primatologists*, and the *Human Behavioral Ecology Society* since 1995.
- Program Committee Member for the *American Society of Primatologists* 1999-2001.
- Conservation Committee Member for the *American Society of Primatologists* 2002-present.

### **PUBLICATIONS FOR THE PUBLIC:**

#### **Highlights**

When Do Monkeys Talk? February, 2007

Staying Alive: Baby Dolphins in Shark Bay, October, 2007

Watching Wild Baboons, December, 2008

What's a Bear to Eat, October, 2009

Hanging by a Thread: What do Caterpillars Know? November, 2009

Keeping an Ear to the Ground: Does Dirt Carry a Message for Elephants?, TBA

Clamming Up: Can Scallops Feel Stressed Out?, TBA

Wild Dolphins Eat Tricky Things, TBA  
Citizen Scientists and the Horseshoe Crabs, TBA

### **Science News For Kids**

Pondering The Puzzling Platypus, March 2009

<http://www.sciencenewsforkids.org/articles/20090318/Feature1.asp>

The Death of the Woolly Mammoth, October, 2009

<http://www.sciencenewsforkids.org/articles/20091014/Feature1.asp>

What's on Your Genes?, September, 2011

<http://www.sciencenewsforkids.org/2011/09/what%E2%80%99s-on-your-genes/>

Can't Touch This, Venom and Poison in Surprising Places, March, 2012

<http://www.sciencenewsforkids.org/>

By a Whisker, September, 2012

<http://www.sciencenewsforkids.org/>

Dog Domestication, October, 2013

TBA

### **Muse**

The Secret of the Rat Fur Coat, October 2012

### **Natural History Magazine**

Dance of the sexes: a lemur needs some unusual traits to survive in Madagascar's unpredictable environment. Feature/Cover in June, 2005.