Laura C. Loyola

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http://spatial.usc.edu/index.php/team-view/laura-loyola/ http://tanaproject.wordpress.com/2011/10/19/tana-river-blog/

EDUCATIONAL BACKGROUND

2008-2015	University of Southern California (USC), PhD, Department of Biological Sciences: Program in
	Integrative and Evolutionary Biology (IEB), Los Angeles, CA
09/08-12/10	University of Southern California, Graduate Certificate, Geographic Information Science and
	Technology (GIST), Los Angeles, CA
2004-2005	Hunter College, City University of New York, Continuing Education: Biology Courses and
	Political Science Courses, New York, NY
5/04-8/04	Columbia University, Continuing Education: Anthropology Courses, New York, NY
5/99-8/99	University of Massachusetts, Continuing Education: Chemistry Courses, Amherst, MA
1994-1998	Amherst College, Bachelor of Arts, May 1998, Biology, Amherst, MA
1/97-5/97	St Lawrence University, Kenya Field Study Program, Nairobi, Kenya

PUBLICATIONS

Manuscripts

Loyola, LC, Turcotte, LP. (in preparation). The Tana River red colobus mediate seasonal variations in metabolizable energy intake through behavioral modifications.

Oral Presentations

Loyola LC, Delgado RA. 2014. The Tana River red colobus (*Procolobus rufomitratus*) exhibit behavioral flexibility to changes in habitat quality: A longitudinal and spatial comparison of behavioral ecology. Paper presentation. *American Journal of Physical Anthropology* (In Press).

Loyola LC, Delgado RA. 2014. Surviving in the Tana: Behavioral Ecology and Conservation of the Tana River red colobus (*Procolobus rufomitratus*). Paper presentation. *International Journal of Primatology* (In Press).

Poster Presentations

Loyola LC, Turcotte LP, Delgado RA. 2013. Validating the use of Urinary C-peptide as a measure of metabolizable energy intake in captive colobus monkeys – a variation on preservation methods. (Poster) *American Journal of Primatology* 75(S1):88.

E.R. Vogel, S. Coiner-Collier, R.S. Scott, J. Chalk, P. Constantino, H. Glowacka, **L. Loyola**, K. Ossi-Lupo, M. Raguet-Schoefield, M. Talebi, C.J. Vinyard, B.W. Wright, N. Yamashita, N.J. Dominy, P.W. Lucas. Do food material properties predict jaw and tooth morphology in primates? (Poster) *American Journal of Physical Anthropology* (In Press).

Loyola LC, Delgado RA. 2011. A proposed methodology for creating a GIS database framework for the analysis of red colobus (*Procolobus rufomitratus*) habitat (Poster). *American Journal of Primatology* 73(S1):66. **Loyola, LC**, Vogel, E, Zulfa, A, Delgado, RA. 2010. The physical properties of Northeast Bornean orangutan

plant foods (Poster). American Journal of Physical Anthropology 141(S50):158.

PROFESSIONAL DEVELOPMENT

Teaching Experience

08/15-Present Lecturer, Lab Instructor, Spatial Sciences 301: Maps and Spatial Reasoning; Lab Co-Instructor, Spatial Sciences 165: Sustainability Science in the City, Spatial Sciences Institute, University of Southern California, Los Angeles, CA Teaching Assistant, Human Biology 200: The Human Animal, Department of Human and 9/14-5/15 Evolutionary Biology, University of Southern California, Los Angeles, CA **Teaching Assistant,** Anthropology 200: Human Origins, Department of Anthropology, 1/14-5/14 University of Southern California, Los Angeles, CA **Teaching Assistant,** Spatial Sciences 587: GPS/GIS Field Techniques, Spatial Sciences Institute, 9/13-12/13 University of Southern California, Los Angeles, CA 1/13-5/13 **Teaching Assistant,** Anthropology 200: Human Origins, Department of Anthropology, University of Southern California, Los Angeles, CA **Teaching Assistant,** Anthropology 200: Human Origins, Department of Anthropology, 9/10-5/11 University of Southern California, Los Angeles, CA 9/08-5/09 Teaching Assistant, Anthropology 200: Human Origins, Department of Anthropology, University of Southern California, Los Angeles, CA

Invited Lectures

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Invited Lecturer, From Red Apes to Red Colobus, Anthropology 200: Human Origins.
Department of Anthropology, University of Southern California, Los Angeles, CA
Invited Lecturer, Careers in Biological Anthropology, Anthropology 200: Human Origins.
Department of Anthropology, University of Southern California, Los Angeles, CA
Invited Lecturer, The Evolution of Altruistic Behaviors. Anthropology 200: Human Origins.
Department of Anthropology, University of Southern California, Los Angeles, CA
Guest Speaker, Northeast Bornean Orangutan Food Properties. Biology Departmental Seminar
Whittier College, Los Angeles, CA
Invited Lecturer, Community Ecology. Anthropology 309: Primate Social Behavior University of
Southern California, Los Angeles, CA
Invited Lecturer , Biogeography, Speciation and Conservation. Anthropology 406: Theory &
Method in Biological Anthropology University of Southern California, Los Angeles, CA
Invited Lecturer, Primate Communication. Anthropology 309: Primate Social Behavior
University of Southern California, Los Angeles, CA
Invited Lecturer, Physical Properties of Northeast Bornean Orangutan Plant Foods. BISC
549a: Integrative and Evolutionary Biology Seminar University of Southern California, Los
Angeles, CA

Research Experience

2/12-12/12 Dissertation Research, A Spatio-temporal Analysis of the Energetics of the Tana River red colobus, Procolobus rufomitratus,

Tana River Primate National Reserve, Tana River, Kenya

This project examined the relationship between metabolizable energy intake (MEI) of the Tana River red colobus (*Procolobus rufomitratus*) and habitat quality over variable seasons and habitats in the riverine forests of the Tana River.

I collected behavioral data (group scans, focal follows and feeding bouts) and physiological samples (urine) from three groups in two separate forest patches along the Tana River. I also recorded phenological data (tree species density and diversity, diameter at breast height, height, colobine food abundance) to determine resource abundance and seasonality. Urine samples were analyzed for urinary C-peptide (UCP) as an indicator of MEI of the Tana River red colobus. Phenological data were incorporated into a GIS for spatial and temporal comparison of resource availability and habitat quality. These phenological and behavioral data were also used to assess MEI as an indicator of habitat quality.

6/09-8/09 **Principle Investigator**, *The Physical Properties of Northeast Bornean Orangutan Plant Foods*, Kutai National Park, East Kalimantan, Indonesia

This project evaluated the mechanical properties of *Pongo pygmaeus morio* (*P.p. morio*) plant foods in East Kalimantan, Borneo.

I collected food samples and performed Scissor and Wedge tests using a Darvell Portable Tester and observed feeding behaviors of habituated orangutans. Data from this research was compared to data collected in Sumatra and Central Borneo to investigate the evolutionary implications of the craniomandibular morphology of *P.p. morio*.

5/06-11/06 International Field Assistant, Kenya's Forest Monkeys Project, Gede, Kenya

PI: Steffen Foerster, PhD.

This project studied the feeding ecology, social behavior, and physiological responses to stress of female *Cercopithicus mitis* (*C. mitis*).

I was in charge of data collection on a newly habituated group of *C. mitis* monkeys, including: behavioral focal follows and ad-libitum recording, inter-group encounter tracking, post aggression follows, fecal sample collection, monitoring provisions, and mapping group movements on a daily basis. Duties also included identification and naming of juveniles in study the group and data entry in excel database.

5/97 **Intern, Institute of Primate Research,** Nairobi, Kenya

PI: Dr. Suleman

Multiple projects including research on HIV medications and primate conservation.

Assisted in laparoscopic and open surgeries on olive baboons; conducted field observations of olive baboons and vervet monkeys for relocation purposes; radio-tracked two troops of Sykes monkeys within the Ololua Forest; observed behaviors in the Caged Primate Colony; managed the sorting and cataloguing of primate tissue samples.

Workshop Attendance

Fall 2014 American Association of Physical Anthropologists – Committee on Diversity; Women's

Mentoring Network

06/13 American Society of Primatologists – Student Workshop: Teaching Portfolios and Strategies for

the Teaching Job Search

04/13 American Association of Physical Anthropologists – Women's Mentoring Network

02-07/13 USC - Academic Professional Development - Enhancing Diversity in Graduate Education -

Dissertation Writing Group

Professional Experience

3/07 - 9/08 Bograd Kids, Inc. - Accounting and Customer Service Manager, New York, NY

Accounts receivable and payable; daily banking; processed payroll and company payroll taxes; customer service and satisfaction; processed and tracked customer and vendor orders; assisted in updating Employee Policy and Procedural Manual; employee relations.

5/06-11/06 Kenya's Forest Monkeys Project – Project Manager, Gede, Kenya

As a Team Leader for five Earth Watch Institute Expeditions responsibilities included: orienting teams with field location and study groups, supervision of team data collection and data entry as well as team transportation within Kenya. Contributed to updating Volunteer Information package for volunteers.

12/05-4/06 **Wildlife Conservation Society – Bronx Zoo – Volunteer, Mammal Department,** Bronx, NY Assisted Zookeepers with the care of all animals throughout the Mammal Department. Duties included: cleaning of exhibits and holding areas, food preparation to meet specific dietary needs of the animals, and observing training sessions in some installations.

2/04-5/06 Dr. Robert G. Schwager, M.D./Smooth Touch Laser Center, Center Manager,

New York, NY

Management responsibilities included: customer service and relations; marketing and advertising; budgeting and bookkeeping; personnel scheduling and payroll. Assisted with minor medical procedures and in securing Joint Commission on Accreditation of Healthcare Organizations (JCAHO) Certification. Performed laser hair removal and skin rejuvenation consultations and treatments; scheduled appointments.

9/99-2/04 Biscuits & Bath Doggy Gym – General Manager, New York, NY

Managed staff of 30+ and care of 75-125 dogs.

General responsibilities included: overseeing daily staff and financial operations; evaluation of new dogs' social behaviors; managing emergency care procedures for animals and staff. Fiscal Management responsibilities included: accounts receivable, processed payroll, daily banking, inventory, track register, customer service, marketing and promotions. Employee Management responsibilities included: personnel hiring and training, scheduling, and orientation. Edited and translated existing Employee Policy and Procedure Manual into Spanish, and implemented protocol from the manual.

9/98-9/99 Hampshire Veterinary Hospital - Assistant Veterinary Technician, Amherst, MA

Assisted Veterinary Doctor and Technician with patient care management which included: patient intake, taking and developing X-rays, performing EKGs, taking and running blood specimens, necropsy preparation, general surgeries, and follow-up care of patients in Intensive Care Unit. Management responsibilities included: training, scheduling and supervision of all part-time employees. Closing technician responsible for nightly rounds on in-house patients.

5/97-8/97 Wildlife World Zoo - Volunteer, Litchfield Park, AZ

> Assisted in food preparation for animals in the Education Department; led public feedings of various bird species; handled wildlife and assisted with educational presentations.

HONORS AND AWARDS

Graduate Student Government (GSG) Travel Grant (\$500)
Jane Goodall Institute – (\$500)
Women in Science and Engineering (WiSE) Merit Fellowship (\$5000)
IEB Merit Scholarship
Graduate Student Government (GSG) Travel Grant (\$500)
Jane Goodall Institute Travel Award (\$500)
Academic Professional Development (APD) Dissertation Writing Group (DWG) Award (\$1000)
Ford Foundation Dissertation Fellowship – Honorable Mention
Foster Graduate Fellowship
USC College Gold Family Fellowship
IEB Merit Scholarship
IEB Merit Scholarship
Mayr Life Sciences Fellowship

MEMBERSHIPS AND ACTIVITIES

Professional Memberships

2010-Present	Society for the Advancemen	it of Chicanos an	d Native Ame	ricans in Scienc	e (SACNAS)
	-student member				
2012 D	0		T DT A		(0 1 03 1 0)

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) -2013-Present

USC Chapter - member

2009-Present American Association of Physical Anthropologists – student member

-Women's Mentoring Network

-Committee on Diversity

2009-Present Animal Behavioral Society – student member

2009-Present **International Society of Primatologists** – student member 2005-Present American Society of Primatologists – student member

Other Related Memberships

2001-Present The Sierra Club

2000-Present Wildlife Conservation Society

2004-2012 The Nature Conservancy

Community Involvement				
4/2015	Healthy Living Course, University High School – Guest Speaker, Human evolution and the			
	modern diet: disequilibrium, nutrition, and food availability			
10/2014	SACNAS – IEB Program Representative and Recruitment, SACNAS National Conference			
2/2014	Robert F Kennedy Community Schools, Community Career Day- School for the Visual Arts			
	and Humanities, bilingual presenter			
2/2013	Robert F Kennedy Community Schools, Community Career Day- School for the Visual Arts			
	and Humanities, bilingual presenter			
2012	Kongoloni Youth Conservation Initiative – Tree Nursery Development and Maintenance			
	Workshop with Kenya Wildlife Services, Mchelelo Research Camp, Tana River, Kenya			
10/2011	Hola Secondary School Visit – Discussant during secondary school visit to Mchelelo Research			
	Camp, Tana River, Kenya.			
2009-2011	Female Undergraduates Educating and Leading in Science (F.U.E.L.S.) – mentor & panelist			
2008, 2009	Children Uniting Nations - Day of the Child Volunteer/Mentor, Santa Monica, CA			
1997-98	Girls, Inc Math/Science Tutor; Cultural Arts Programming Assistant, Holyoke, MA			

A Better Chance House, Amherst Chapter – Tutor, Amherst, MA

Student Engagement

1995-96

Student Engag	gement
10/2014	SACNAS USC Day – Graduate Student Panelist
8/2013	Enhancing Diversity in Graduate Education (EDGE) Programs – Graduate Student Panelist
5/2013	USC Graduate Student Prospective Program - Volunteer
2010	USC Circle K International – Biodiversity Conservation panelist, 2010
2009-2011	Alternative Careers in Science & Engineering (ASCE) – Co-Chair, 2010-2011; IEB
	representative, 2009
2009-Present	SACNAS Chapter at USC – USC-IEB Program Representative
2009-Present	Graduate Women in Biology – student member
2008-Present	USC Latino Graduate Student Association (LGSA) – Student Advisor 2010-2011; Vice
	President, 2009-2010; Latino Student Assembly Representative, 2008
2009	Annual Black & White Ball – planning committee/LGSA representative
2008	Integrative and Evolutionary Biology Professional Development Seminar – student member,
	assist in engaging speakers for seminars
1994-98	Amherst College Women's Chorus – Vice President, 1996; Sectional Secretary, 1995; Eastern
	European Co-Tour Manager, 1995
1994-98	Amherst La Causa-Latino Student Organization – Alumni Representative, 1997-98;
	Treasurer, 1996-97; Admission's Liaison, 1995
1995-98	Amherst La Casa-Latino Culture House – Secretary, 1995-97
1997-98	Chicano/a Caucus – East Coast Chicano Student Federation Conference Coordinator
1995-96	Amherst Intergroup Action Coalition Team – Co-Secretary, 1995-96
Fall 1996	Amherst Student and Faculty Committee on Admission and Financial Aid – Student
	Appointee by Dean of Admissions

LANGUAGES AND SKILLS

Fluent in Spanish, Conversational Swahili and Indonesian. Geographical Information Sciences and Technology (GIST) Certified; Operation of Darvell mechanical tester; GIS ArcGIS; computer literate on multiple platforms.