

## Curriculum Vitae

### María Paulina Viteri Espinel

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#### RESEARCH AND PROFESSIONAL INTEREST:

- Conservation Genetics and Phylogeography
- Landscape Ecology and Spatial Analysis
- Participatory Conservation Research
- Environmental Justice and Policy
- Neotropical Mammals
- Andean bears

#### LANGUAGES:

- Spanish (mother tongue), English (proficient), Swedish (proficient), Japanese (basic).

#### EDUCATION:

##### 2007- **Ph. D. candidate**

Laboratory for Ecological, Evolutionary and Conservation Genetics. Department of Fish and Wildlife Sciences. University of Idaho, Moscow, USA.

##### 2007 **Master in Sciences (M.S.)**

Environmental Sciences Program, University of Idaho, Moscow, USA.

##### 2003 **Bachelor in Sciences, Biology (B.S.)**

With Minors in Chemistry and Japanese, University San Francisco de Quito, Ecuador.

##### 2002 **Certification in Tropical Ecology and Conservation**

Organization for Tropical Studies (OTS) and University of Costa Rica, Costa Rica.

#### WORK AND RESEARCH EXPERIENCE

##### 2015 **Visiting researcher** (Intern)

Arbetsförmedlingen praktik scheme. Molecular Ecology Laboratory. Department of Fish and Wildlife. Swedish University of Agricultural Sciences. Umeå, Sweden. Laboratory and genetic data analysis.

##### 2015 **International Bear Association Conference Bid Proposal** (accepted 18 May 2015)

Preparation and writing of the technical proposal on behalf of the Secretary of Environment DM Quito, Ecuador, to propose Quito as the host city of the 25th International Conference for Bear Research and Management.

##### 2014 **Planning and coordination**

III International Symposium for Andean bear Conservation and Management: Land of bears, Land of people, Land of all. Cartagena, Colombia. December 1-5, 2014.

##### 2007-2012 **Research Assistant**

Laboratory for Ecological, Evolutionary and Conservation Genetics. Fish and Wildlife Sciences Department, University of Idaho (USA). Non-invasive sampling, geospatial mapping

- (GIS), DNA extraction, purification and cloning, PCR, sequencing, fragment analysis. Use of specialized software: ArcGIS, Genemapper, Sequencher, NVivo, Density.
- 2007 **Teaching Assistant**  
Course on Fish and Wildlife Ecology WLF316. Fish and Wildlife Sciences Department, University of Idaho, Moscow-USA.
- 2005- 2006 **Researcher/Coordinator**  
Andean Bear Component, Consortium for International Protected Area Management (CIPAM)/University of Idaho (UI), with the collaboration of Ecuadorian Environmental Foundations EcoCiencia and Jatun Sacha. Northern and Central Andes of Ecuador.
- 2004 - 2005 **Teaching Assistant**  
Environmental Sciences ENV5101. Environmental Science Program, University of Idaho, Moscow-USA.
- 2003 **Laboratory Technician**  
Population genetic analysis of black bear (*Ursus americanus*), brown bear (*Ursus arctos*), wolf (*Canis lupus*) and moose (*Alces alces*). Laboratory for Ecological, Evolutionary and Conservation Genetics. Department of Fish and Wildlife Sciences. University of Idaho, Moscow-USA.
- 1999-2003 **Researcher**  
Population genetics of Andean bears using non-invasive sampling techniques. Andean Bear Conservation Project, EcoCiencia Foundation, Quito-Ecuador.
- 1999 **Assistant Researcher/Diver**  
Coral aggregation and marine macro-invertebrates assessment of Machalilla National Park. Data Center for Conservation (CDC). Ecuador.
- 1999 **Microbiology Assistant**  
Molecular analysis of *E.coli* and *Leptospira*. Microbiology Laboratory. University San Francisco de Quito. Ecuador.
- 1997-1998 **Entomology Assistant (Intern)**  
Collection and taxonomic identification (Formicidae). Biological control assessment and eradication program for introduced/invasive species. Department of Entomology. Volunteer Program Scheme. Charles Darwin Research Station, Galapagos Islands-Ecuador.

#### FUNDED GRANT PROPOSALS AND AWARDS

- 2015 **IBA Conference Bid Proposal Preparation** (accepted 18 May 2015)  
To host the 25th International Conference for Bear Research and Management, Quito November 2017. International Bear Association.
- 2014 **Young Natural History Science Meeting Travel Grant** (€500)  
Muséum National d'Histoire naturelle, Paris
- 2011 **Research and Conservation Grant** (\$5,000)  
International Association for Bear Research and Management (IBA)
- 2010-2011 **PhD Scholarship SENESCYT** (\$48,000)  
National Secretary for Science and Technology, Ecuador (SENESCYT)
- 2008 **AAUW International Fellowship** (\$20,000)  
International Fellowship, American Association of University Women (AAUW)
- 2008 **International Student Scholarship** (\$900)  
Endowment Award from the International Program Office, University of Idaho
- 2007 **Idaho EPSCoR Program** (\$23,980)  
Award for outstanding female. Experimental Program to Stimulate Competitive Research (EPSCoR).
- 2007 **Graduate Research Excellence & Outstanding Presentation** (\$250)  
Departmental Nominee for Graduate & Professional Student Association (GPSA), U of Idaho

- 2006 **Fernando Ortíz Crespo Conservation Grant** (\$2,500)  
Conservation Scholarship, EcoCiencia & Conservation International (CI) Ecuador
- 2005 **Russell E. Train- Education for Nature Scholarship** (\$35,000)  
World Wildlife Fund (WWF)
- 2005-2007 **Research and Conservation Grant** (\$15,000)  
International Association for Bear Research and Management (IBA)
- 2004 **Latin American Student Fellowship** (\$1,500)  
American Society of Mammalogist
- 2004 **DeVlieg Research Fellowship** (\$1,000)  
Laboratory for Conservation and Ecological Genetics, University of Idaho
- 2004 **Memorial Bear Fund** (\$1,500)  
Wyoming Chapter of The Wildlife Society (TWS)
- 2004 **Foster Award** (\$600)  
College of Natural Resources, University of Idaho

SYMPOSIUM/MEETINGS/WORKSHOP ORGANIZER

**III International Symposium for Andean bear Conservation and Management: Land of bears, Land of People, Land of All** (Cartagena, December 1-5, 2014)

Planning and Scientific committee. Session Chair.

**Roundtable: Prospects on Genetic Research in Ecuador** (Loja, November 21, 2008)

Organizer/Chair. XXXII Ecuadorian Biological Society. Universidad Técnica Particular de Loja, Loja, Ecuador.

**Workshop: Project Design and Proposal Writing** (Quito, June 28-30, 2006)

Workshop designed for protected area technicians, park guards, local authorities and community leaders. Ecuador. CIPAM/UI

**Workshop: Wildlife Monitoring Techniques** (January through March 2006)

Workshop designed for protected area managers, park guards, parabiologists and community leaders. Oyacachi, Mariscal Sucre, Solferino and Monteverde. Ecuador. CIPAM/UI

ASSOCIATIONS:

2015- **AEM member**

Ecuadorian Association of Mammology

2008- **Bear Specialist Group member.** Species Survival Commission-IUCN

2008- **Andean Bear Expert Team (ABET) member.** International Association for Bear Research and Management (IBA)

2003- **IBA member**

International Association for Bear Research and Management (IBA)

2008-2009 **GPSA Awards Chair**

Graduate and Professional Student Association (GPSA), University of Idaho

2005 **GPSA Senator**

Environmental Sciences Program representative for GPSA, University of Idaho

#### PUBLICATIONS IN ENGLISH:

- Rodríguez, D., A. Reyes, **M.P. Viteri**, H. Restrepo, R. Van Horn and S. García-Rangel. 2015. III International Symposium on Andean bear conservation and management: Land of bears, land of people, land of all. Symposium Report. *International Bear News* Vol. 14, N°1. Pp 43-45.
- Viteri, M. P.** and L. P. Waits 2009. Identifying polymorphic microsatellite loci for Andean bear research. *Ursus* 20:102-108.
- Viteri, M. P.** 2007. Conservation Genetics of Andean bears in Northeastern Ecuador: Molecular tools, genetic diversity and population size. Master of Science. Thesis. University of Idaho, USA.
- Viteri, P.**, and L. Waits. 2002. A non-invasive genetic sampling pilot study of the Andean bear (*Tremarctos ornatus*) in the Cayambe-Coca Ecological Reserve, Ecuador. Conference Proceedings for the Fourteenth International Conference on Bear Research and Management. Steinkjer-Norway.

#### PUBLICATIONS IN SPANISH:

- Viteri, M. P.** 2014. Genética de la conservación: aplicación de herramientas moleculares en la conservación de especies en peligro en ecosistemas tropicales. Pp. 237 en *La biodiversidad sensible: patrimonio natural irremplazable*. IV Congreso Colombiano de Zoología. Libro de Resúmenes. Asociación Colombiana de Zoología.
- Suárez L. and **M. P. Viteri**. 2014. El oso Andino en el Ecuador: avances y desafíos. Pp. 235 en *La biodiversidad sensible: patrimonio natural irremplazable*. IV Congreso Colombiano de Zoología. Libro de Resúmenes. Asociación Colombiana de Zoología.
- García-Rangel, S., X. Velez-Liendo and **M. P. Viteri**. 2014. Actualización del estatus del Oso Andino en la Lista Roja de especies amenazadas de la IUCN. Pp. 222. *La biodiversidad sensible: patrimonio natural irremplazable*. IV Congreso Colombiano de Zoología. Libro de Resúmenes. Asociación Colombiana de Zoología.
- Castellanos, A., J. Cevallos, A. Laguna, L. Achig, **P. Viteri** y S. Molina. 2010. Estrategia Nacional de Conservación del Oso Andino. Ministerio del Ambiente. Anyma Press. Quito.
- Flores, S., y **P. Viteri**. 2006. Mapeo de actores e identificación de necesidades de capacitación de la Reserva Biológica Guandera y su zona de influencia. CIPAM/UI. Quito.
- Viteri, P.** 2002. Caracterización de los individuos en cautiverio y de una población silvestre de oso andino (*Tremarctos ornatus*) en la Reserva Ecológica Cayambe-Coca mediante el uso de técnicas de biología molecular. Tesis Bachelor. Colegio de Ciencias Ambientales. Universidad San Francisco de Quito/ EcoCiencia. Quito.
- Cuesta, F., M. Peralvo, S. Flores, D. Sánchez, **P. Viteri**, C. Varas y J. Camacho. 2000. Manual de Capacitación para el monitoreo del oso andino en la carretera Guamote-Macas, tramo Purshin Nueve de Octubre, Parque Nacional Sangay. Informe Técnico. EcoCiencia. Quito.
- Flores, S., **P. Viteri** y F. Cuesta. 1999. Diagnóstico sociopedagógico y de necesidades educativas enfocado al oso andino (*Tremarctos ornatus*) y el tapir de altura (*Tapirus pinchaque*) en la escuela de la Parroquia de Cosanga, Zona de amortiguamiento de la Reserva Ecológica Antisana (REA). Informe Técnico. EcoCiencia. Quito.

#### PUBLICATIONS IN PROGRESS:

- Viteri, M. P.**, *et al.* (*In prep.*). Phylogeography, genetic diversity and structure of Andean bears in Ecuador.
- Viteri, M. P.**, *et al.* (*In prep.*). Density and population size of Andean bears in Northeastern Ecuador using genetic sampling and spatial explicit capture recapture models.
- Viteri M. P.**, *et al.* (*In prep.*). Knowledge is power or power is knowledge? Framing collaborative biodiversity conservation practices on social theory and participatory action research methodology.

**Viteri, M. P., et al. (In prep.)**. Participatory conservation research enables transformative learning among scientists and Traditional Ecological Knowledge holders: a framework for species conservation in the Tropics.

Velez-Liendo, X., García-Rangel, S., and **M.P. Viteri. (In prep.)**. Andean bear (*Tremarctos ornatus*). Red List Assessment. Bear Specialist Group SSC-IUCN.

#### MEETINGS, TALKS AND PRESENTATIONS:

Poster. **Viteri, M.P.** How threatened are Andean bears in Ecuador? II Young Natural History Science Meeting. Muséum National d'Histoire naturelle, Paris, France. Feb 4-6 2015.

Invited Talk. **Viteri, M.P.** Genética de la conservación: aplicación de herramientas moleculares en la conservación de especies en peligro en ecosistemas tropicales. III Simposio Internacional para la Conservación del Oso Andino. Cartagena, Colombia. December 1-5, 2014.

Oral presentation. García-Rangel, S., X. Velez-Liendo and **M. P. Viteri.** 2014. Actualización del estatus del Oso Andino en la Lista Roja de especies amenazadas de la IUCN. III Simposio Internacional para la Conservación del Oso Andino. Cartagena, Colombia. Dec 1-5, 2014.

Oral presentation. Suárez L. and **M. P. Viteri.** 2014. El oso Andino en el Ecuador: avances y desafíos. III Simposio Internacional para la Conservación del Oso Andino. Cartagena, Colombia. December 1-5, 2014.

Oral presentation. **Viteri, M.P.** Conserving Andean bears in Ecuador: status and current research. 21<sup>th</sup> International Conference Bear Research & Management. New Delhi, India. Nov 26-30, 2012.

Invited Talk. **Viteri, M.P.** Conserving Andean bears in Ecuador: status and current research. 11<sup>th</sup> Western Black Bear Workshop, Coeur d'Alene, USA. May 21-24, 2012.

Participant. 4th Annual Research Symposium. Society for Conservation Biology: Montana Chapter. University of Montana, Missoula, Montana, USA. November 17-18, 2011.

Fellow. BioVision 2011: 7<sup>TH</sup> World Life Sciences Forum in Lyon France. March 27-29, 2011.

Poster. Cisneros, R. & **M.P. Viteri.** Diversidad Genética del Oso Andino en el Parque Nacional Podocarpus. XXXII Jornadas Ecuatorianas de Biología. Universidad Técnica Particular de Loja, Ecuador. November 20-22 2008.

Oral presentation. **Viteri, M.P.** Landscape Genetics of Andean bears in the northern Andes of Ecuador. Research Expo 2008, Moscow, USA. April 25<sup>th</sup>, 2008.

Poster presentation. **Viteri, M.P.,** Waits, L.P., Cuesta, F., y M. Proctor. Andean bear genetic diversity and population size. Third International Symposium in Conservation Genetics, New York, USA. September 27-29, 2007.

Oral presentation. **Viteri, M.P.** Conserving Andean bears in Ecuador: information on population size and genetic diversity. Graduate Student Expo, Moscow, USA. April 10, 2007.

Oral presentation. **Viteri, M.P,** Waits, L.P., y W. McLaughlin. Integrating the community in the study of Andean bears in Ecuador. Seventeenth International Conference on Bear Research and Management, Karuizawa, Japan. October 2-6, 2006.

Oral presentation. **Viteri, M.P.,** et al. Genetic Diversity and Minimum population count on the Andean bear in Ecuador. Sixteenth International Conference on Bear Research and Management Riva del Garda, Italy. September 27-October 1, 2005.

Poster. **Viteri, M.P.,** Cuesta, F., Waits, L.P., Remache, G., Tapia, A., and J. Camacho. Conservation Genetics of the Andean bear in Ecuador. Second Conservation Genetics Meeting, Monterey, USA. September 25-28, 2005.

Oral presentation. **M.P. Viteri.** La estructura genética del oso Andino en el norte y el sur del Ecuador. VI International Conference on Wildlife Management in the Amazon and Latin America. Iquitos, Perú. September 5-10, 2004.

Oral presentation. **Viteri M.P.,** y L.P. Waits. A non-invasive genetic study of the Andean bear in the Cayambe-Coca Ecological Reserve, Ecuador. Fourteenth International Conference on Bear Research and Management. Steinkjer, Norway. July 28- August 2, 2002.