

CONTACT INFORMATION	<p>Department of Animal Science University of Nebraska-Lincoln</p> <p><i>E-mail:</i> gerardo.mamani@usp.br <i>Celular:</i> 958745068(Peru)</p>
RESEARCH INTERESTES	<p>I come from livestock family in the region of Cusco in Peru. I worked in rural development projects in Peru, with an emphasis in alpacas, llamas and guinea pigs systems production. Actually, I am a PhD student in Animal Bioscience of the University of Sao Paulo-Brazil. My interest is Genetics and Animal Breeding, Animal Reproduction and Statistics.</p>
EDUCATION	<p>University of Nebraska - Lincoln, Lincoln, NE USA</p> <p>Visitor Scholar, 4/2017 - actually</p> <ul style="list-style-type: none"> • Project: "Genomic prediction in Nellore cattle" • Supervisor: Prof. Dr. Gota Morota <p>University of Sao Paulo, Pirassununga, Sao Paulo, Brazil</p> <p>Ph.D. student, Animal Bioscience, September 2014 - actually</p> <ul style="list-style-type: none"> • Project of Thesis: "Association between coefficients of genomic inbreeding and productive and reproductive traits in Nellore cattle" • Advisor: Prof. Dr. Jose Bento Sterman Ferraz <p>University National Agrarian La Molina, Lima, Peru</p> <p>Magister Scientiae, Animal Production, March 2013</p> <ul style="list-style-type: none"> • Thesis: "Genetic structure and genetic trend of birth weight in alpacas of the Germoplasm Bank of Quimsachata Puno - Peru". • Advisor: Prof. Dr. Gustavo Gutierrez Reynoso • Committee: Drs. Juan Chavez Cossio, Jorge Aliaga and Edwin Mellisho Salas <p>University National of the Altiplano, Puno, Peru</p> <p>Veterinary Doctor, Marzo 2005</p> <ul style="list-style-type: none"> • Tesis: "Relationship between sperm morphology, motility and vigor and the enzymatic activity of GOT and GPT transaminases in alpacas". • Advisor: Prof. Dr. Pedro Coila • Committee: Drs. Maximo Melo, Guido Perez and Zenon Maquera
WORK EXPERIENCE	<p>Project: Improving Alpaca Systems Production in Highland of the Central Sierra of Peru University National of La Molina - VLIR, Lima - Pasco, Peru Cargo: Research assistant 08/2013 - 08/2014</p> <p>Elaboration of baseline and technical expedient of livestock development in Orcopampa, Arequipa IPTIG, Lima, Peru Cargo: Consultant 05/2013 - 06/2013</p> <p>Project: Improvement of the capacity and employment for the alpaca production in the Northeast of Puno, Peru CECOALP, Puno, Peru Cargo: Extension. 04/2010 - 08/2010</p>

Study of baseline and elaboration of the project for the development of South American domestic camelids in Antauta and Ajoyani, Puno.

ONG DESCO, Puno, Peru

Cargo: Consultant.

03/2010

Project: Development of productive and commercial capacities of the small breeders of alpacas of Manazo and Cabanillas, Puno.

ONG CEDER, Puno, Peru

Cargo: Extension.

01/2008 - 12/2009

Project: Desarrollo de capacidades productivas y comerciales de los pequenos criadores de alpacas de las comunidades altoandinas de Moquegua y Arequipa.

ONG CEDER - CESVI, Puno, Peru

Cargo: Extension.

11/2006 - 12/2007

Programa de Apoyo a Campesinos Pastores de Alturas PROALPACA-Huancavelica.

ONG Vecinos Peru, Ayacucho-Huancavelica, Peru

Cargo: Extension.

11/2005 - 10/2006

Elaboracion de linea de base del Project de desarrollo de capacidades, incremento productivo y mercadeo de leche y derivados de las comunidades campesinas del altiplano de Puno CARITAS- Puno.

ONG DESCO, Puno, Peru

Cargo: Encuestador.

10/2005

Inversiones Doria SRLtda. Santa Lucia - Puno.

Project de Desarrollo Corredor Puno -Cusco, Puno, Peru

Cargo: Extension.

10/2005

PREPRINTS

3. **Mamani GC**, Mendoza JG, Gutierrez G. Caracterizacion de poblaciones de llamas mediante analisis multivariado. In prep.
2. **Mamani GC**, Santana B, Perez B, Oliveira G, Mattos E, Ferraz JB. Diversidad genetica de ovejas Santa Ines usando datos de pedigree e genomicos. In prep.
1. **Mamani GC**, Mamani-Cato RH, Huanca T, Gutierrez G, Gutierrez JP. Estructura genetica de alpacas del Banco de Germoplasma del INIA Peru. In prep.

JOURNAL PAPERS

- 2017
3. Santana B, **Mamani GC**, Oliveira G, Castro L, Molento M, Ventura R, and Ferraz JBS . Characterization of runs of homozygosity in a population of Thoroughbred Horses. *Revista Ciencia Tecnologia*.v9.2017.
 2. Santana B, Fonseca R, Matos M, **Mamani GC**, Eler J and Ferraz JBS. Feasibility of using "days to a specific weight" traits in Nelore cattle breeding programs. *Revista Brasileira de Saude e Producao Animal*. **18.2**

- 2015
1. Vargas A, Gutierrez G. and **Mamani GC**. An application of Gibbs sampling for genetic parameters estimation in guinea pigs using MCMCglmm. *Revista de Investigaciones Veterinarias del Peru*. **26.2**
- PROCEEDINGS
ABSTRACT
- 2017
12. **Mamani GC**, Santana B, Ventura R, Ferraz JBS. Caracterizacao de segmentos de homozigose en bovinos, ovinos, porcinos e equinos. VI Simposio de Biociencia Animal . September 5, Pirassununga, SP, Brazil.
 11. Santana B, **Mamani GC**, Oliveira G, Ventura R, Ferraz JBS. Efeitos da endogamia sobre a uniformidade de progenie de touros nelore.. VI Simposio de Biociencia Animal. September 5, Pirassununga, SP, Brazil.
- 2016
10. **Mamani GC**, and Santana B, Aguirre L, Mattos EC, Ferraz JBS. Estructura genetica de ovinos Santa Ines por analise de pedigree. III Simposio de Biociencia Animal. Setiembre 8, Pirassununga, SP, Brazil.
- 2015
9. Mamani-Cato RH, Huanca T, Condori-Rojas N, **Mamani GC**. Estructura genetica de la poblacion de llamas del Banco de Germoplasma del INIA Peru Reunion Cientifica Anual de la Asociacion Peruana de Produccion Animal. Agosto 7-9, Ayacucho, Peru.
 8. Mamani-Cato RH, Huanca T, **Mamani GC** y Condori-Rojas N. Modelacion de curvas de crecimiento de llamas Qara utilizando modelos de crecimiento no lineales Reunion Cientifica Anual de la Asociacion Peruana de Produccion Animal. Agosto 7-9, Ayacucho, Peru.
 7. **Mamani GC** y Ferraz JBS. Asociacao entre coeficientes de endogamia genomicos e caracteristicas reprodutivas em bovinos Nelore. II Simposio de Biociencia Animal . Setiembre 11, Pirassununga, SP, Brazil.
 6. Quina E, Renieri C, Pena Y, **Mamani GC**. Tendencias geneticas para peso de vellon, diametro y coeficiente de variabilidad de fibra de alpacas del Centro de Desarrollo Alpaquero Tocra VII Congreso Mundial en Camelidos Sudamericanos. Octubre 28-30, Puno, Peru.
 5. Mamani Torreblanca C, **Mamani GC**, Chavez J. La llama carguera: cronicas contadas por um llamero del Peru VII Congreso Mundial en Camelidos Sudamericanos. Octubre 28-30, Puno, Peru.
- 2013
4. Gutierrez G, Candio J, Ruiz J, **Mamani GC**, Corredor A, Flores E. Performance of alpacas from a dispersed open nucleus in Pasco region, Peru. 64 th EAAP Annual meeting. Symposium on South American Camelids and other Fibre Animals. August 25-30, Nantes, Francia.
 3. **Mamani GC**, Huanca T, Gutierrez G. Heredabilidad y tendencias geneticas para el peso al nacimiento en alpacas (*Vicugna pacos*) del CIP Quimsachata-INIA, Puno. XXXVI Reunion Cientifica Anual de la Asociacion Peruana de Produccion Animal. Diciembre 4-6, Lima, Peru.

2012	2. Quina E, Mamani GC . Indices reproductivos y caracterizacion fenotopica de llamas (<i>Lama glama</i>) en Centro de Desarrollo Alpaquero Toccra - Yanque -Caylloma VI Congreso Mundial en Camelidos Sudamericanos. Arica, Chile.
2006	1. Mamani GC , Coila A. Relacion de la morfologia, motilidad y vigor espermatico de semen de alpacas con la actividad enzimatica de las transaminasas GOT y GPT. IV Congreso Mundial en Camelidos Sudamericanos. Noviembre, Santa Maria, Salta, Argentina.
ADDITIONAL TRAINING	
2017	<ul style="list-style-type: none"> • Course: "Population Genetics". University of Nebraska-Lincoln. Lincoln, USA. August-December. Taught by Jessica Petersen • Course: "Linear Models in Animal Breeding". University of Nebraska-Lincoln. Lincoln, USA. August-December. Taught by Matt Spangler • Course: "Statistical Method I". University of Nebraska-Lincoln. Lincoln, USA. August-December. Taught by Walter Stroup • Short course: "Introduction to Graphical Models with Applications to Quantitative Genetics and Genomics". Iowa State University. Ames-Iowa. June 19-23. Taught by Guilherme J.M. Rosa and Francisco Penagaricano
2016	<ul style="list-style-type: none"> • Short course: "Temas Especiais sobre Crescimento e Desenvolvimento Animal". University of Sao Paulo. Pirassununga, Brazil. October 24 -30. Taught by David Gerrard • Course: "Modelagem Estatística aplicado ao Melhoramento Animal". University of State of Sao Paulo. Jaboticabal-Brazil. November 21-25. Taught by Guilherme J.M. Rosa. • Short course: "Iniciacao aos programas da familia BLUPF90". University of Sao Paulo. Pirassununga-Brazil. September 20 - 21. Taught by Mario Luiz Santana Junior. • Short course: "Quantitative Genetics and Genomics". University of Sao Paulo. Piracicaba-Brazil. May 16 - 25. Taught by Gota Morota and Matt Spangler. • Course: "Genética dos Processos Fisiológicos em Animais Domésticos ". University of Sao Paulo. Piracicaba-Brazil. March to June. Taught by Luiz Coutinho and Gerson Mourao. • Course: "Análise de Dados Genômicos". University of State of Sao Paulo. Jaboticabal - Brazil. March to June. Taught by Roberto Carneiro.
2015	<ul style="list-style-type: none"> • Short course: "Prediction of Complex Traits"(on-line). Universidad Politécnica de Valencia . Valencia-Spain. September 7-9. Taught by Daniel Gianola.

- Course: "Principios de Associacao e Selecao Genomica". University of State of Sao Paulo. Jaboticabal-Brazil. August to December. Taught by Fernando Baldi.
- Course: "Introducao a Inferencia Bayesiana aplicada ao Melhoramento Animal". University of State of Sao Paulo. Jaboticabal-Brazil. August to December. Taught by Henrique Nunes de Oliveira.
- Short course: "Livestock Conservation Genomics: Data, Tools and Trends". University of State of Sao Paulo. Jaboticabal-Brazil. August 17-22. Taught by Ino Curik, Johann Solkner, Yuri Utsunomiya and Adam Utsunomiya

- 2014
- Course: "Endocrinologia Molecular dos Processos Reprodutivos". University of Sao Paulo. Pirassununga-Brazil. September to October. Taught by Mario Binelli.
 - Course: "Ferramentas para Avaliacao Espermatica: Sondas Fluorescentes e Sistema Computadorizado da Motilidade (CASA). University of Sao Paulo. Pirassununga-Brazil. October to November. Taught by Rubens Paes de Arruda.

- 2013
- Course: "Genetica Aplicada al Manejo de los Recursos Zootecnicos". University National Agrarian La Molina. Lima-Peru. December 9-14. Taught by Abel Ponce de Leon.

- 2012
- Course: "Biotecnologia Reproductiva en Animales de Granja". University National Agrarian La Molina. Lima-Peru. September to December. Taught by Edwin Mellisho Salas and others.

TEACHING **Facultade de Zootecnia e Ingenieria de Alimentos, Universidade de Sao Paulo, SP, Brasil**

Speaker

Course: Genetic Basic

Semester 2016-II

Pedagogical preparation

Course: Estatistics II

Semester 2016-I

Facultad de Zootecnia, Universidad Nacional Agraria La Molina, Lima, Peru.

Assistant of practics

Course: Population genetics

Semester 2013-II

COMPUTER SKILLS	<ul style="list-style-type: none"> • Programing languages: Python • Statistical Computational Tools : R, SAS, Asreml, Plink and Blupf90 • Simulation programs: Vensim, QMsim • Content-description Languages: L^AT_EX • Operting systems : Windows, Linux and Mac Os X
LANGUAGES	<ul style="list-style-type: none"> • Spanish • Quechua • Portuguese • English
REFERENCES	References available upon request.