

Curriculum Vitae

Personal Information:

Names: Pablo Andrés

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Education:

2015-Present: Master in Agricultural Sciences (Major in Plant Biology), College of Agronomy, UdelaR, Uruguay. With emphasis in plant breeding.

Master courses:

- QTL analysis, genomics and associative mapping.
- Vegetal biotechnology
- Use of genomic tools in the breeding of species with agronomic interest.
- Plant mineral nutrition in biodiversity hotspots: lessons for breeding and management of crop plants and grasslands
- Crop origin and evolution
- Perennial crops for a sustainable agriculture
- Production systems and ambient impact
- Lineal models in animal breeding
- Multivariate statics applied to the ecology
- Evaluation technics in forage plants
- Scientific communication in English
- Statistics II: Mixed Models applied to the agronomic investigation
- Tucson Plant Breeding Institute in Uruguay

2006-2014: Agronomy, College of Agronomy, UdelaR, Uruguay

Specialization on Agriculture, beef and dairy systems, with emphasis in plant breeding.

Degree Thesis: "Morphological and molecular characterization of a collection of *Paspalum dilatatum* subsp. *flavescens*"

Optative courses:

- Evolution
- Quantitative Methods III. Experimental design
- Plant Breeding
- Pasture quality and animal use
- Crop and forage harvest
- Technology on the production of pastures

Work Experience:

Jul 2018 – Now Technician in Lab of Cereals Breeding & Quantitative Genetics. Agronomy Department. University of Wisconsin at Madison.

Work duties:

- Design, installation and installation of evaluation on Barley, Oat and Wheat.
- Collection of Phenotypic data
- Statistical analysis of agronomic traits
- Coordination of activities related to the program
- Installation, management and execution of program crossing block
- Post-harvest experiment processes.

2009 - 2018 Teaching and Research Assistant. Laboratory of Plant Evolution and Domestication, Department of Plant Biology, College of Agronomy, University of the Republic, Montevideo, Uruguay.

Work duties:

- Assistant in research on use and domestication of genetic resources from native forage grasses.
- Design and installation of trials with different objectives, principally evaluation and characterization on forage plants.
- Statistical analysis from field and laboratory data
- Genotyping and analysis of the population diversity for forage native species.
- Molecular analysis for the genetic structure of genetic resources
- Development of molecular tools in wild relatives of *Solanum tuberosum* and *Paspalum dilatatum*
- Plant phenotyping
- Design and redaction of investigation projects.

2001 – 2017. Work in the family dairy farm, I did wide number of tasks.

Example Works on the farm

- Forage harvest
- Sown of crops and forage
- Crop Harvest
- Plow mechanically and chemically
- Maintenance and manage of the farm

RESEARCH

2016-2018. Development of a mapping population and analysis of morpho - physiologic development in sexual biotypes of *Paspalum dilatatum*.
Responsible

2016-2018. CSIC Groups. Genomic tools development for the domestication of *Paspalum dilatatum*.
Team member.

2015-2018. INIA. Utilization of next generation genomic analysis to facilitate the development of advanced potato germplasm resistant to *Ralstonia solanacearum*.
Team member.

2013-2015 Facilitation of adoption and development of varieties of summer forage grasses for the Uruguayan seed market.
Team member

2009-2012 Utilization and domestication of forage grasses from the *Paspalum* genus in Uruguay
Team member.

TEACHING EXPERIENCE

2009- 2017.
Plant Breeding.
Assistant in undergraduate-level and regular course, College of Agronomy, UdelaR.

GRANTS AND FELLOWSHIPS

September 2011 – August. 2012. Fellowship research initiation, ANII (National agency for the investigation and the innovation). Title: “Analysis of the genetic a morphological diversity in a collection of *Paspalum dilatatum* subsp *flavescens*”.

April 2016 – March 2018. Postgraduate Fellowship to national postgrads, ANII (National agency for the investigation and the innovation). “Development of a mapping population and analysis of morpho - physiologic development in sexual biotypes of *Paspalum dilatatum*”.

July 2016 August 2016. Internship on Wisconsin University at Madison, Agronomy department, Cereals breeding and Quantitative genetics group.

PUBLICATIONS:

Resumes

2018. Gaiero P., Andino L., Silveira M., Sandro P., Vaio M., Mazzella M., Castillo A., Schranz E., de Jong H., Vilaró F. & Speranza P. Jornadas de Investigación FAgro. Genetic resources of potatoes in Uruguay: characterization and tools for use in plant breeding. Montevideo/Uruguay (Resumen)

2016. Sandro, P; Rebollo, I; Gaiero, P; Vaio, M; Vilaró, F; Speranza, P. Microsatellites design for *Solanum commersonii* from genomic information. XVI Latin American Congress of Genetics, October 9-12, Montevideo, Uruguay.

2015. Sandro, P. Condón, F. Speranza, P International symposium of forage breeding 2015. “Genetic structure of a Uruguayan collection of *Paspalum urvillei*”

2015. Gaiero P., Silveira M., Galvan G., Andino M., **Sandro P.**, van de Belt J., Mazzella M., Speranza P., de Jong H. & Vilaró F. 18th Triennial Meeting of the EAPR Section Breeding and Varietal Assessment and the EUCARPIA Section Potatoes. Taming the wild potato: cytogenetic and genomic characterization of the *Solanum commersonii* germplasm for introgressive hybridization breeding. Vico Equense/Italia.

2015. Gaiero P., Vilaró F., Andino M., Silveira M., **Sandro P.**, Vaio M., Mazzella M., Speranza P. & de Jong H. Workshop: The Potato-*Ralstonia solanacearum* pathosystem: advances in breeding for resistance. Exploring the use of a wild relatives in potato breeding through genetic, cytogenetic and genomic tools. Montevideo/Uruguay

2014 Sandro, P. Gutiérrez, L. Speranza, P. Journeys of the Uruguayan society of genetics. "Genotyping and phenotypic characterization of a collection of *Paspalum dilatatum* subsp. *flavescens*".

2012. Sandro, P. González, P. Gutiérrez, L. Speranza, P. Latin-Americans journeys of genetic resources, breeding and biotechnology in forage species. "Morphological variability on a collection of *Paspalum dilatatum* subsp. *flavescens*".

2011. Sandro P, Speranza. P. II journeys of the Uruguayan society of genetics. "Characterization of the geographic distribution and genetic diversity of *Paspalum dilatatum* subsp. *flavescens* in Uruguay".

Oral presentations

2014. XV Uruguayan Journeys of biosciences. "Comparison between Q_{ST} y F_{ST} for a collection of *Paspalum dilatatum* subsp. *flavescens*". Authors: Sandro, P. Gutiérrez, L. Speranza, P.

Book Chapters

2017. Sandro, P. Gutiérrez, L. Speranza. P. "Characterization of the variability and selection of descriptors for *P. dilatatum* subsp. *flavescens*" Authors: In: Utilization and domestication of forage grasses from the genus *Paspalum* in Uruguay. Montevideo (UY): INIA, 2017. 68 p. (Serie FPTA-INIA; 61)

Arbitered Journals

2019 Sandro, P. Gutierrez, L. Speranza, P. (2019) Distribution of genetic and phenotypic diversity in the autogamous perennial *Paspalum dilatatum* subsp. *flavescens* Roseng., Arrill. & Izag. (Poaceae). P. Genet Resour Crop Evol (2019) 66: 1205. <https://doi.org/10.1007/s10722-019-00791-9>

Idioms:

English TOEFL iBT:

- **Speak:** 20
- **Listening:** 29
- **Reading:** 28
- **Writing:** 17
- **Total:** 94

Informatic skills:

- Operative Systems Windows, Linux, iOS
- Microsoft Office. Word, Excel, PowerPoint, Access.
- Open Office
- **Statistical Programs**, R, SAS, Infostat.
- **Most usual Genetic programs**

Personal and work references

Reference: PhD. Pablo Speranza

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