

FRANCA GIANNINI-KURINA

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Postdoctoral researcher,
Soil Fertility Section, Agroecology Department, Aarhus University

EDUCATION

Degrees

Dr. in Agricultural Sciences, National University of Buenos Aires (UBA), Buenos Aires, Argentina.

Sep 2015 - May 2020

Thesis: "[Methodological approaches for spatial analysis of soils herbicides retention and dissipation](#)"

MSc. in Applied Statistics, National University of Córdoba (UNC), Córdoba, Argentina

Mar 2016 - Aug 2021

Thesis: "[Bayesian models for geostatistical data: Digital Soil Mapping with R-INLA](#)"

Agricultural Engineering, UNC, Córdoba, Argentina

Mar 2009 - Feb 2015

Specialization: "Quantitative methods in agricultural science"

Thesis: "[Characterization of groundwater resources in Córdoba province](#)"

Recent courses

- **Science-based Advice at AU-Tech.** DCA and DCE, Aarhus University, Fredericia, Denmark. Mar 18, Apr 7-8, 2025.
- **PhD Supervision Course GSNS/GSTS.** Graduate School of Natural Science, Aarhus University, Aarhus, Denmark. Feb 20-21, 2025.
- **Uncertainty Analysis and Statistical Validation of Spatial Environmental Models.** Graduate School for Production Ecology and Resource Conservation, Wageningen University, Wageningen, Netherlands. Dec 9-13, 2024.
- **Sensitivity Analysis of Model Output.** 12th Summer School on Sensitivity Analysis, Department of Economics and Management, University of Parma, Parma, Italy. Jun 24-28, 2024.
- **University Pedagogical Programme.** Centre for Educational Development, Aarhus University, Aarhus, Denmark. Spring Semester 2024.

RESEARCH EXPERIENCE

Postdoctoral researcher.

Aarhus University, Agroecology Department, Soil Fertility Section.

Advisor: Professor Jørgen Eriksen.

Modelling C and N dynamics in soil.

Apr 2022 to present

Postdoctoral researcher.

Jun 2020 to Mar 2022

CONICET (National Scientific and Technical Research Council), UFYMA (Research Institute of Phytopathology and Agricultural modelling) INTA-CONICET, Córdoba Argentina.

Advisors: Professor Mónica Balzarini and Professor Susana Hang.

Spatial statistics applied to environmental soil science.

Doctoral student.

Apr 2015 to May 2020

CONICET. Faculty of Agricultural Science (FCA). UNC.

Advisor: Professor Mónica Balzarini and Professor Susana Hang.

Environmental statistics to model herbicides soil dynamic.

PUBLICATIONS

Peer-reviewed journal articles

*Zhartybayeva, A., Christensen B. T., Eriksen, J., **Giannini-Kurina, F.**, Jensen, J. L. The hidden soil carbon turnover: evidence from a long-term C3-to-C4 conversion experiment. To be submitted in August 2025.

*Serra, J., Marinheiro, J., Marques-dos-Santos, C., Graversgaard, M., Quemada, M., Lassaletta, L., Ros, G.H., **Giannini-Kurina, F.**, de Vries, W., Aguilera, E., van Grinsven, H.J.M., Hayashi, K., Mogollon, J., Sanz-Cobeña, A., Dalgaard, T., Butterbach-Bahl, K., Evaluation of global research on agricultural nitrogen pollution between 1990 and 2023: challenges for more efficacy and equity. Submitted Environmental Science & Policy Jul 7, 2025.

*Serra J., Lassaletta, L., Ros, G., Quemada, M., **Giannini-Kurina, F.**, Aguilera E., Graversgaard, M., Marques-dos-Santos, C., Cameira, MR., De Vries, W., Dobermann, A., Zhang, X., Rahimi, J., Dalgaard, T., Butterbach-Bahl, K., Irrigation is a considerable nitrogen input in global cropland. Submitted Nature Sustainability Jul 25, 2025.

*Martins, J.T., Peixoto, L., **Giannini-Kurina, F.**, Han, E., & Rasmussen, J. (2025). Effect of additional inoculation on *in situ* biomass, nodule formation and N₂ fixation in soybean under Northern European conditions. Plant and Soil – accepted on 6 October 2025.

Borello, J. S., **Giannini-Kurina, F. A.**, Grassi, D. A., Nassetta, M. M., & Lepori, E. C. V. (2025). Relationship Between Dairy Farm Production and Emergent Veterinary Contaminants in Córdoba, Argentina. Environmental Quality Management, 35(1), e70176. <https://doi.org/10.1002/tqem.70176>

Giannini-Kurina, F., Schneider, R. J., Højberg, A. L., & Børgesen, C. D. (2025). Seasonal variability of nitrate concentrations below the root zone: A monthly predictive modeling approach. <https://doi.org/10.1002/jeq2.70077>

Dottori, C., Suarez, F., Córdoba, M., **Giannini-Kurina, F.**, & de Breuil, S. (2025). Predicting and mapping orthospovirus risk in peanut crops using biometeorological data. European Journal of Agronomy, 170, 127742. <https://doi.org/10.1016/j.eja.2025.127742>

Giannini-Kurina, F., Serra, J., Christensen, B. T., Eriksen, J., Hutchings, N. J., Olesen, J. E., & Jensen, J. L. (2024). Modelling and validating soil carbon dynamics at the long-term plot scale using the rCTOOL R package. Environmental Modelling & Software, 106229. <https://doi.org/10.1016/j.envsoft.2024.106229>

Jensen, J. L., **Giannini-Kurina, F.**, & Eriksen, J. (2024). Similar root and stubble biomass carbon in grass-clover leys irrespective of yield, species composition, sward age, and fertilization. *Journal of Plant Nutrition and Soil Science*. <https://doi.org/10.1002/jpln.202400093>

Serra, J., Marques-dos-Santos, C., Marinheiro, J., Cruz, S., Cameira, M.R., de Vries, W., Dalgaard, T., Hutchings, N.J., Graversgaard, M., **Giannini-Kurina, F.**, Lassaletta, L., Sanz-Cobena, A., Quemada, M., Aguilera, E., Medinets, S., Einarsson, R., Garnier, J. (2024). Assessing nitrate groundwater hotspots in Europe reveals an inadequate designation of Nitrate Vulnerable Zones. *Chemosphere*, 141830. <https://doi.org/10.1016/j.chemosphere.2024.141830>

Paccioretti, P., **Giannini-Kurina, F.**, Suarez, F., Scavuzzo, M., Alemandri, V. M., Gómez Montenegro, B., & Balzarini, M. (2023). Protocolo para automatizar la descarga de datos climáticos desde la nube y generar indicadores biometeorológicos para el monitoreo epidemiológico de cultivos. *AgriScientia*, 40(1), 8-8. <https://doi.org/10.31047/1668.298x.v40.n1.39619>

Suarez, F., Bruno, C., **Giannini-Kurina, F.**, Pecci, M. P. G., Pardina, P. R., & Balzarini, M. (2023). Marriage between variable selection and prediction methods to model plant disease risk. *European Journal of Agronomy*, 151, 126995. <https://doi.org/10.1016/j.eja.2023.126995>

Gutierrez, S., Grados, D., Møller, A. B., Gomes, L. C., Beucher, A., **Giannini-Kurina, F.**, ... & Greve, M. H. (2023). Unleashing the sequestration potential of soil organic carbon under climate and land use change scenarios in Danish agroecosystems. *Science of The Total Environment*, 166921. <https://doi.org/10.1016/j.scitotenv.2023.166921>

Borello, J. S., **Giannini-Kurina, F.**, Grassi, D. A., Tentor, G., Cañas, A. I., Nassetta, M. M., & Lepori, E. C. V. (2023). Veterinary drugs in groundwater in a dairy region of central Argentina and risk assessment for human health. *Environmental Quality Management*. <https://doi.org/10.1002/tqem.22042>

Marinelli, M. V., Argüello Caro, E. B., Petrosillo, I., **Giannini-Kurina, F.**, Giobellina, B. L., Scavuzzo, C. M., & Valente, D. (2023). Sustainable Food Supply by Peri-Urban Diversified Farms of the Agri-Food Region of Central Córdoba, Argentina. *Land*, 12(1), 101. <https://doi.org/10.3390/land12010101>

Giannini-Kurina, F., Borello, J., Cañas, I., Hang, S., & Balzarini, M. (2022). Mapping atrazine persistence in soils of central Argentina using INLA. *Soil and Tillage Research*, 219, 105320. <https://doi.org/10.1016/j.still.2022.105320>

Koritschoner, J., **Giannini-Kurina, F.**, Hang, S., & Balzarini, M. (2022). Site-specific modelling of short-term soil carbon mineralization in central Argentina. *Geoderma*, 406, 115487. <https://doi.org/10.1016/j.geoderma.2021.115487>

Giannini-Kurina, F., Suarez, F., Paccioretti, P., Macchiavelli, R., & Mónica, B. (2021). Desempeño predictivo de R-INLA SPDE para el Mapeo Digital de Suelos. In XIII Congreso de AgroInformática (CAI 2021)-JAIIO 50 (Modalidad virtual). <https://sedici.unlp.edu.ar/handle/10915/140590>

Frassoni, J. E., **Giannini-Kurina, F.**, López Lauenstein, D., & Joseau, M. J. (2021). Análisis de estrategias de brotación de familias de polinización abierta de *Prosopis alba* Grisebach de Argentina. *AgriScientia*, 38(2), 27–40. <https://doi.org/10.31047/1668.298x.v38.n2.28610>

Paccioretti, P., Bruno, C., **Giannini-Kurina, F.**, Córdoba, M., Bullock, D. S., & Balzarini, M. (2021). Statistical models of yield in on-farm precision experimentation. *Agronomy Journal*, 113(6), 4916-4929. 2021. <https://doi.org/10.1002/agj2.20833>

Giannini-Kurina, F.; Koritschoner, J.; Rampoldi, A.; Balzarini, M.; Hang, S. Modelos para la conversión de las concentraciones de Fe, Mn, Cu y Zn entre los métodos Mehlich-3 y DTPA-TEA. *Ciencia del Suelo*. Buenos Aires: Asociación Argentina de la Ciencia del Suelo. 2021. 39(2). <https://ojs.suelos.org.ar/index.php/cds/article/view/658>

Giannini-Kurina, F., Hang, S., Rampoldi, A. E., Paccioretti, P., & Balzarini, M. (2021). *Unveiling spatial variability in herbicide soil sorption using Bayesian digital mapping* (Vol. 50, No. 4, pp. 934-944). <https://doi.org/10.1002/jeq2.20254>.

Paccioretti, P.; **Giannini-Kurina, F.**; Balzarini, M. G. (2020). Muestreo de sitios a escala regional para mapeo digital basado en propiedades de suelo. *Ciencia del Suelo*. Buenos Aires: Asociación Argentina de la Ciencia del Suelo. 2020 vol.38 n°2. p310 - 320. issn 0326-3169.

Olivares, B. O; Araya-Alman, M; Acevedo-Opazo, C; REY, J. C; Cañete-Salinas, P; **Giannini-Kurina F**; Balzarini, M; Lobo, D; Navas-Corté S, J. A; Landa, B. B.; Gómez, J. A. (2020). Relationship Between Soil Properties and Banana Productivity in the Two Main Cultivation Areas in Venezuela. *Journal of Soil Science and Plant Nutrition*. vol.20 n°4. p2512 - 2524. <https://doi.org/10.1007/s42729-020-00317-8>

Giannini-Kurina, F.; Hang, S.; Macchiavelli, R.; & Balzarini, M. (2019). Spatial predictive modelling essential to assess the environmental impacts of herbicides. *Geoderma*, 354, 113874. <https://doi.org/10.1016/j.geoderma.2019.07.032>

Giannini-Kurina, F.; Balzarini, M.; Rampoldi, A.; & Hang, S. (2019). Site-specific data on herbicide soil retention and ancillary environmental variables. *Data in brief*, 104754. <https://doi.org/10.1016/j.dib.2019.104754>

Giannini-Kurina, F.; Hang, S.; Córdoba, M. A.; Negro, G. J.; & Balzarini, M. G. (2018). Enhancing edaphoclimatic zoning by adding multivariate spatial statistics to regional data. *Geoderma*, 310, 170-177. <https://doi.org/10.1016/j.geoderma.2017.09.011>

Books

Guía para el análisis de datos espaciales. Aplicaciones en agricultura. Serie: Estadística Aplicada. Mariano Córdoba; Pablo Paccioretti; **Franca Giannini-Kurina**; Cecilia Bruno; Mónica Balzarini. ISBN: 978-987-760-272-2. <https://ri.conicet.gov.ar/handle/11336/195087>

Consultancy reports

Giannini-Kurina, F., Ugilt Larsen, S., & Eriksen, J., (2025). Sensitivity Analysis of the NLES5 Model for the NUAR Calculator, [Nr. 2025-0832229, 33 s., jun. 18, 2025](#). Rådgivningsnotat fra DCA - Nationalt Center for Fødevarer og Jordbrug

Højberg, A. L. (Ed.), Thodsen, H. (Ed.), Børgesen, C. D. (Ed.), Andersen, A. H., Andersen, L. T., Audet, J., Bach, E. O., Møller Balling, I., Christensen, A.-S. H., Christiansen, D. T., Christiansen, D. A., Tirado Conde, J., Falk, F. A., Frederiksen, R. R., **Giannini-Kurina, F.**, Gudbjerg, J., Hansen, B., Henri, C. V., Henriksen, E. S., ... Aamand, J. (2025). Beskrivelse af kvælstofretentionskort version 2025 til anvendelse i lokale grønne treparter via MARS. GEUS. <https://doi.org/10.22008/gpub/38945>

Jensen, J.L., **Giannini-Kurina F.**, Eriksen, J., Thers, H., Elsgaard, L., Callisen, L.W., Gyldenkerne, S. 2024. Muligheder for kulstofopgørelser på bedriftsniveau, der er i overensstemmelse med og kan afspejles i den nationale emissionsopgørelse. [Rådgivningsnotat fra DCA](#) – Nationalt Center for Fødevarer og Jordbrug, Aarhus Universitet. 9 sider. Leveret: 30.09.2024.

Eriksen, J., Ørum, J.E., Hvid, S.K., Olsen, J.V., Hansen, E.M., Larsen, S.U., **Giannini-Kurina, F.**, Thomsen, I.K., (2024). Ny Udledningsbaseret Arealregulering for kvælstof (NUAR) – analyse af metode, kvotetildelingsmodeller og omkostninger. 116 sider. [Rådgivningsnotat fra DCA](#) – Nationalt Center for Fødevarer og Jordbrug, Aarhus Universitet Leveret: 24.05.2024.

Paccioretti, P., **Giannini-Kurina, F.**, Córdoba, M., Robledo, J., Teich, I., García, C., Nolasco, M., Romero, M., Balzarini, M. (2021) Cuenca en cifras. Comisión de Enlace de Entidades Agropecuarias (CEEA). <https://cuencaencifras.fca.unc.edu.ar/about.html>

R packages

Giannini-Kurina, F. & Serra, J. (2025). **rCTOOL**: An open and comprehensive R package for C turnover modelling_. R package version 3.0.0, <https://github.com/francagiannini/rCTOOL> .

Paccioretti P, Córdoba M, **Giannini-Kurina F**, Balzarini M (2024). paar: Precision Agriculture Data Analysis. R package version 1.0.1, <https://github.com/PPaccioretti/paar> , <https://ppaccioretti.github.io/paar/> .

Conferences and congresses

32 works presented in academic events since 2011. 12 oral presentations.

Invited speaker presentations

Seasonal variability of nitrate concentrations below the root zone: A monthly predictive modelling approach, “XXII International Nitrogen Workshop Resolving the Global Nitrogen Dilemma - Opportunities and Challenges”. Aarhus, Denmark. 17th – 21st Jun 2024.

Joint spatial modelling of soil regulation functions to herbicide applications. “31st International Biometric Conference”. Riga, Latvia, Jul 2022

Addressing alternative approaches for spatial modelling of herbicide retention in soil. XVII “XVII Spanish Conference and VII Ibero-American Biometrics Meeting CEB-EIB 2019”. Valencia, Jul 2019.

Predictive modelling of glyphosate adsorption coefficient in agricultural soils. “XXIX International Biometric Conference”. Barcelona, Jul 2018.

TEACHING EXPERIENCE

Supervision

PhD level co-supervision:

Emilie Sofie Lissner. Aarhus University, Tech Faculty. *Field-Level Prediction of Nitrate Leaching Using Machine Learning*. 2024-Present

Wilfred Teejay Kosi Adjadeh. Aarhus University, Tech Faculty. *Optimal use of fertilizer nitrogen for crop yield and nitrogen leaching*. 2024-Present

Azhar Zhartybayeva. Aarhus University, Tech Faculty. *Land management practices as tool to mitigate climate change by soil carbon sequestration*. 2023-Present

Raul Omar Caceres Diaz. UNC, Argentina. Faculty of Agricultural Science. *Soil Carbon Dynamics in Native Forest-Agriculture Transitions*. 2022-Present

Franco Suarez. UNC, Argentina. *Computational Statistical Advances for Processing Georeferenced Information with Applications in Agriculture*. Faculty of Agricultural Science. 2021-2024.

Julieta Borello. UBA, Argentina. *Veterinary drugs environmental fate from the dairy region of Córdoba, Argentina*. University of Buenos Aires, Faculty of Pharmacy and Biochemistry. 2020-Present.

Main supervisor for 18 finalized Bachelor/Master theses in quantitative methods for agricultural research. FCA-UNC. 2017-2022

Undergraduate level teaching

Responsible Associate Professor, Faculty of Engineering. Catholic University of Córdoba, Argentina (UCC) 2019-2022.

Course: Probability and Statistics.

Assistant Professor, FCA-UNC. 2017-2021.

Course: Biostatistics.

Assistant Student Professor, FCA-UNC. 2011-2013.

Course: Math I and II.

Postgraduate level teaching courses

Biostatistical Modelling for Agricultural Science. PhD in Agroecology, AU, 2025 **Course Leader**.

Data Analysis from Bayesian Estimations with an Emphasis on Managing Random Effects for Spatio-Temporal Processes. MSc. in Applied Statistics, UNC. 2023 **Course Leader**.

Biostatistics and Experimental Design, Graduate School, UNSE. 2021 and 2022. **Lecturer**.

Statistics and Biometry, Doctorate in Genetic Improvement, UNNOBA. 2020 and 2021. **Lecturer**.

Biostatistics, MSc. in Food Science and Technology, FCQ UNC. 2020 **Lecturer**.

Statistics and Biometry, MSc. in Equine Production. UNRC. 2020 **Lecturer**.

Geostatistics, Doctorate in Agricultural Science. FCA, UNC 2019, 2020 and 2021 **Lecturer**.

Automatic Learning Algorithms with Spatial Data, Scientific Meeting of the Argentine Biometrics Group, UNCUYO. Oct 2019. **Instructor**.

Strategies for the statistical analysis of data with spatial correlation. II School Congress on Spatial Statistics, Applications in Agriculture and Environment, UNC. Sept 2019. **Lecturer**.

Visualization tools for spatial data in R. Congress School of Spatial Statistics, applications in Agriculture and Environment, UNC. Dec 2018. **Instructor**

Bayesian spatial models in R-INLA. MSc. in Applied Statistics, UNC. Dec 2018. **Instructor**

FUNDING

Honors and awards

Young Statistician Award IBC. 2020

Representing South America (Argentinean Region)

Dissertation: "Two Step Procedure to Model Site Specific Herbicide Soil Persistence"

Aug 2020, International Biometric Conference IBC2020

Teaching Award: "Your experience counts". 2020

Second place award for pedagogical proposal of university education in a virtual context

Proposal: "Stat Labs to teach Statistics and Probability for Engineering TICS"

Jul 2020, UCC.

Young Statistician Award CEB. 2019

Representing South America (Argentinean Region)

Dissertation: "Addressing alternative approaches for spatial modelling of herbicide retention in soil"

Aug 2020, "XVII Spanish Conference and VII Ibero-American Biometrics Meeting"

Fellowships

CONICET. Postdoctoral fellowship. Jun 2020 to March 2022

CONICET. Doctoral fellowship. April 2015 to May 2020

Regional Integration Exchange Program. Argentine Ministry of Education. 2018. College of Agricultural Sciences. University of Puerto Rico, Mayagüez. Advisor: Professor PhD. Raúl E. Macchiavelli.

Mobility scholarship for undergraduate students. ESCALA Association of Universities Group Montevideo (AUGM). 2013. Federal University of Santa María. Reference: Dr. Ricardo Simão Diniz Dalmolin.

Research grants

NITAGRO: A machine learning approach to predict nitrate leaching at field scale. 33010-NIFA-23-871. (14.17 mio DKK) Jun-24 to Dec-27. **Co-Investigator and proposal developer.**

NyMarkmodel: Nitrogen leaching and changes in soil carbon at field and farm level. Kvælstofudvaskning og ændringer i jordens kulstofpulje på mark- og Bedriftsniveau. 33010-NIFA-22-791.(15.00 mio DKK) Juan-23 to Dec-26. **Collaborator**

Carbon accounting at farm level for national inventory. Kulstofopgørelser på bedriftsniveau. 33010-NIFA-24903. (3.99 mio DKK) Juan-24 to Dec-26. **Co-Investigator and proposal developer.**

Statistical modelling in agronomic research with large databases. Modelación estadística en la investigación agronómica con grandes bases de datos. Sep-2021 to Sep-2023. PIP (11220200102010CO). **Co-Investigator**

Contaminant potential of herbicides in soils: Joint spatial modelling of retention and dissipation. Potencialidad contaminante de herbicidas en suelos: Modelación espacial conjunta de retención y disipación. *Granted not executed.* PICT-2020-SERIEA-03894. **Principal Investigator and proposal developer.**

Environmental role of soils in Córdoba Province: Properties, processes, and functions for delimiting homogeneous areas. Rol ambiental de los suelos de la provincia de Córdoba: Propiedades, procesos y funciones para la delimitación de áreas homogéneas. Consolidar2020. Mar-2021 to Dec-2021. **Collaborator.**

Methodological developments for predicting herbicide retention and dissipation under different agricultural crop rotations. Desarrollos metodológicos para la predicción de retención y disipación de herbicidas bajo distintas cubiertas rotaciones agrícolas. PÍODO 2017. Oct-2018 to Sep-2019. **Co-Investigator.**

Statistical and machine learning approaches for Agro Big Data. Aproximaciones estadísticas y aprendizaje automático para Agro Big Data. Consolidar Tipo III 18. Dec-2018 to Dec-2021. **Research fellow.**

Statistical advancements for processing spatial information with applications in agriculture. Avances estadísticos para procesar información espacial con aplicación en agricultura. PICT-2017-3094. Dec-2018 to Dec-2021. **Research fellow.**

Development of multivariate algorithms for within-plot yield prediction in precision agriculture. Desarrollo de algoritmos multivariados para la predicción de rendimiento intra-lote en agricultura de precisión. PICT-2017-1641. Jul-2019 to Jul-2020. **Research fellow.**

Geodata to infer pesticide fate in agricultural soils of Córdoba Province. Geodata para inferir destino de fitosanitarios en suelos agrícolas de la provincia de Córdoba. PÍODO 2015. May-2016 to Sep-2017. **Research fellow.**

Geospatial delimitation of areas vulnerable to agricultural contamination in the semi-arid and sub-humid regions of Córdoba province. Delimitación geoespacial de áreas vulnerables a la contaminación agrícola en las regiones semiárida y subhúmeda de la provincia de Córdoba. PID (14622139) Jul-2016 to Jul-2017. **Research fellow.**

Statistical developments for spatial data. Applications in precision agriculture and soil mapping. Desarrollos estadísticos para datos espaciales. Aplicaciones en agricultura de precisión y en mapeo de suelos. PICT-2014-1071. Jun-2014 to Jun-2018. **Research fellow.**

Science communication and events grants

Guide for spatial data analysis in agriculture. Guía para el análisis de datos espaciales en agricultura. PROTRI2018. Sep-2018 to Sep-2019. **Co-Investigator.**

The soils of Córdoba: Foundations of genuine growth. Los suelos de Córdoba: Cimientos del crecimiento genuino. PROTRI 2015. Apr-2017 to Mar-2018. **Technical Support Staff.**

Spatial Statistics School Conference. Congreso escuela de estadística espacial. Dec-2018 to Dec-2018. Event Support (MINCYTCBA funded activity). **Co-Investigator organizer.**

ACADEMIC AFFILIATIONS

IBS. International Biometric Society, Argentine region, 2018 - present

AACS. Argentine Association of Soil Science, 2019 - present

PROFESSIONAL SERVICE

Peer-Reviewed activities

- Agriculture, Ecosystem & Environment
- Nutrient Cycling in Agroecosystems
- Scientific Data
- Geoderma
- Environmental Challenges
- European Journal of Soil Science
- European Journal of Agronomy
- AgriScientia
- Frontiers in Environmental Science

Statistical consulting

- Member of Expert Panel. *Pergamino Chacra. AAPRESID.* 2024-present
- Sensitivity analysis on Carbon dynamic models. *Ruuts, Ovis.* 2023
- Zoning protocol and automatization for SOC monitoring. *Ruuts, Ovis.* 2021-2022
- Project: Basin in figures. Commission of Agricultural Entities (CEEA). 2020-2022
- Project: Soils of Córdoba: foundations of genuine growth. 2018-2022
- Sampling the ichtic fauna of Ctlamochita. *Fundación Río Ctlamochita.* 2020-2021
- Xylella fastidiosa incidence, *INTA-IPAVE.* 2020-2021
- Team Consulting: Spatial modelling of COVID-19 incidence in Córdoba, Arg. 2020
- Field trials analysis for horticulture and grain production. *Agroalliance.* 2017-2019

Symposium Co-Organizer

- Experimental Design Days Workshop, Viborg 2025.
- Spatial Statistics applications in Agriculture and Environment Workshop, Córdoba 2018 and 2019
- Jornadas Nacionales de Suelos de Ambientes Semiáridos, Córdoba 2019

CIVIC ACTION

Committee member at Diversity and gender equality committee. AU AGRO 2023-present

Student counsellor (elected position) at the board of Ag. Sc. Faculty, UNC.
2014-2015

Student counsellor at the career development board. FCA-UNC. 2013-2015

Volunteer promoting community gardens for self-sufficiency. *Surcos Argentinos.* 2011-2014

LANGUAGES

Spanish: Native; English: C1; Portuguese: B2; French: A1; Danish: A2

ADDITIONAL SKILLS

- Advanced programming skills in R.
- Basic programming skills in SAS, Python and Julia.
- Advanced knowledge in Cartography and Orienteering skills.
- GIS software (QGIS, ArcGIS, ENVI) working experience.
- First aid and emergencies training.
- Academic and sport events leading and organization experience.

REFERENCES

Professor Jørgen Eriksen. Phone: +4551680554. e-mail: jorgen.eriksen@agro.au.dk. Section leader Soil and Fertility section, Agroecology department, Aarhus University.

Professor Monica Balzarini. Phone: +5493512655060. e-mail: monica.balzarini@unc.edu.ar. Vice director CONICET, Córdoba. Agricultural College. National University of Córdoba.

Professor Raúl E. Macchiavelli. Phone: +17873835278. e-mail: raul.macchiavelli@upr.edu. Dean and Director. College of Agricultural Sciences University of Puerto Rico recinto Mayagüez.

Professor Susana Hang. Phone: +5493513130302. e-mail: shang@agro.unc.edu.ar. Science and Technology director. Agricultural College. National University of Córdoba.