

CURRICULUM VITAE

Johanna Denise Chirkes

Birth: 21-04-81
Nacionality: Argentina
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I define myself as a hardworking person and who enjoys what she does. I like to work in a team and learn new things. I believe that the goal of life is to be passionate in what one does.

ACADEMIC QUALIFICATIONS

High school: Liceo N°9 “Santiago Derqui” Conesa 1855. Graduated 1998.

University: Bachelor of Biological Sciences (University of Buenos Aires), 2007.
Average: 7.91

PhD: “Silicon dynamics in the soil-water-plant relationship in the Pampas region” PhD in Veterinary Sciences Faculty, University of Buenos Aires. Graduated December 2019. Excellent

Pedagogical: “Teacher in industrial disciplines” of the University National Technology (UTN). Graduated December 2019.

SCHOLARSHIP

PhD, CONICET, from April 2012 to April 2017

PUBLISHED ARTICLES

Journal

Chirkes Johanna D., Heredia Olga S., Alicia Fernández Cirelli. 2018. Soluble silicon in differently textured mollisols of Argentina. *Geoderma Regional* 15. <https://doi.org/10.1016/j.geodrs.2018.e00191>

Chirkes, J.; L. Marbán; E. Giardina y O. S. Heredia. 2011. Evolución Química, Térmica y de Altura de una Pila de Compost durante su Formación. Revista Ciencia. 6: 23. ISSN N° 1668-2009. Facultad de Ciencias Exactas y Naturales, Universidad Nacional de Catamarca.

Book chapter

Impact on the environmental and on the rural population of agrochemicals used in transgenic crops in the Pampean Region, Argentina. Ed 2018. ISBN 978-950-694-994-5. 276 pp. Editor E. Pagano. Editorial Latin American Publishing Group

“Edaphological Practices for Didactic Purposes”. Pág 243-251. Ed. 2015. Editor Diego J. Cosentino. ISBN 978-987-29338-6-9 1. 251 pp. Editorial Facultad de Agronomía, University of Buenos Aires.

Didactic guides for the subjects: Pollution Chemistry and Toxicology and Bioindicators of the Degree in Environmental Sciences. University of Buenos Aires. 2019-2014.

Chirkes, Johanna. 2011. “La onda verde. La conciencia del medio ambiente y los jóvenes”. Revista Encrucijadas-University of Buenos Aires. 53: (1515-6435).

CONGRESSES

- 2019** VI Congress of the Argentine Salinity Network “Soluble silicon in salinity soils of Córdoba, Argentina”. Boni Plaza L, **Chirkes, J,** Tarditti A, Heredia O.S. July, CABA. Argentina. 2nd prize.
- 2018** XXVI Argentine Congress of Soil Science
“Two methodologies comparison for soluble silicon determination in soil”.
Chirkes, Johanna, Heredia Olga S., Pereira Hamilton, Korndörfer, Gaspar H. Póster. May, Tucumán. Argentina.
- 2017** Internship in Silicon research laboratory "Silicio na Agricultura" in University Federal of Uberlandia, Uberlandia, Minas Gerais, Brasil. September 2017. Director PhD. Korndörfer, Gaspar
- 2016** XXV Argentine Congress of Soil Science
“Phosphorus and silicon analysis in pore water, in test with *Rye grass*”
Chirkes J, Herrera A, Heredia O.S.; Zorich; Conti y Giardina Er. June, Ciudad de Rio Cuarto, Córdoba, Argentina.
- 2016** XXV Argentine Congress of Soil Science
“Silicon distribution in the matrices soil-pore water-plant (*Rye grass*)”
Chirkes, Heredia; Herrera; Erpelding; de León Belloc y Clozza. June, Ciudad de Rio Cuarto, Córdoba, Argentina.

- 2016** XXV Argentine Congress of Soil Science
 “Phosphorus and silicon in pore water in an Argiudoll soil experiment”
 Erpelding; Conti; Zorich; De León Bellooc; Herrera Andrea; **Chirkes**, y Olga S.
 June. Ciudad de Rio Cuarto, Córdoba, Argentina.
- 2016** XXV Argentine Congress of Soil Science “Residuality and leaching of
 glyphosate and AMPA in soils of different granulometry”. Heredia O. &
Chirkes. Póster. June, Ciudad de Rio Cuarto, Córdoba, Argentina
- 2014** 2nd Meet of Researchers in Water Resources IFRH 2014 “Silicon and
 phosphorus in the pampean plane argentine” **Chirkes** J, Heredia O. y
 Fernández Cirelli A. Oral. September, Ezeiza, Buenos Aires, Argentina.
- 2014** XXIV Argentine Congress of Soil Science
 “Silicon availability in argentine soils”
Chirkes J. y Heredia O. May, Bahía Blanca, Argentina.
- 2012** XIX Latinoamerican Congress y XXIII Argentine Congress of Soil Science
 “Current status of silicon studies in argentine soils (review)”
Chirkes J. y Heredia O. Póster. April, Mar del Plata, Argentina
- 2012** XIX Latinoamerican Congress y XXIII Argentine Congress of Soil Science
 “Silicon in Hapludolls with agricultural use” **Chirkes** J. et al. Póster. April,
 Mar del Plata, Argentina
- 2011** XXXIV Argentine Congress of Horticulture, “ Chrome effect in germination
 of tomato (*Lycopersicum esculentum*), lettuce (*Lactuca sativa*) and radish
 (*Raphanus sativus*)”,
 Androsiuk V. **Chirkes** et al. Argentina.
- 2011** Environmetal Sciences Congress–COPIME, “Agri-environmetal study of
 silicon in soils”, Azate R. **Chirkes** y Heredia. June, Argentina
- 2010** V Iberoamerican Congress on Environmental and Quality of Life, 6th
 Congress on Environment and Quality of Life. “Chemical, termal and height
 evolution of a compost pile during its formation” **Chirkes**, J.
 et al. Oral. October, Catamarca, Argentina.
- 2010** XXII Argentine Congress of Soil Science,
 “Making compost with primary school children”,
Chirkes J., L. Giuffré. Póster. May, Rosario, Santa Fe, Argentina.
- 2010**

2010 XXII Argentine Congress of Soil Science “Teaching the scientific method through cooperative-efficient learning of aerobic composting with high school students” **Chirkes**, Giardina, Marbán, Leveratto. Póster. Mayo, Rosario, Santa Fe, Argentina.

2010 III Argentine Congress of Toxicology and Environmental Chemistry Society “Assesment of chromium toxicity on germination and growth of different species of horticultural importance” Giardina E. B. **Chirkes**.

SELECTT RESEARCH FINANCED PROJECTS

UBACyT 20020170100396BA “Processes of chemical degradation of soils and pampean waters under agricultural use”. 2018-2020.

UBACyT 20020130100471BA, “The use of real reserves os soil waters in water balances for agronomic purposes”. 2014-2017.

PID 0032/2011, “Impacto n the environment and rural population of the agrochemical used in transgenic crops in the Pampean región, Argentina”. 2013-2016

Mincyt N° 295/2012 “Determination of water reserves in the soil for risk assessment of water stress in crops” From April 2012 to December 2013.

UBACyT 20020090200140, “Agro-environmental importance of the study of the unsaturated area and its ability to mitigate aquifer contamination”2010-2012.

HUMAN RESOURCES TRAINING

Director of Mercedes Ramacieri Bachelor of Environmental Sciences. Title: Effect of lead in *Impatiens sp.* In process

Director of Lucía Boni Plaza Bachelor of Environmental Sciences. Effect of pH and type soil in soluble silicon. In process.

Director of Catalina Zorich Bachelor of Environmental Sciences. Title: Distribution of silicon and phosphorus in pore water using arenosous soil on Intendente Alvear and *Lolium perenne* March 2018.

Director of Bárbara Conti Bachelor of Environmental Sciences. Title: Distribution of silicon and phosphorus between Ryegrass plants and a Hapludol of Intendente Alvear, La Pampa, Argentina. July 2017.

TRAINING COURSES

Water quality. Director: PhD. Alicia Fernández Cirelli. Escuela de graduados “Ernesto G. Capaul”, June 2016. Faculty of Veterinary, UBA. Qualification 10. 80 hours.

Epistemology and Methodology of Sciences. Director: PhD. Carlos Blanco. Escuela de graduados “Ernesto G. Capaul”, May 2015. Faculty of Veterinary, UBA. Qualification 8. 80 hours.

Statistics and experiment design. Director: PhD Carlos Blanco. Escuela de graduados “Ernesto G. Capaul”, April 2015. Faculty of Veterinary, University of Buenos Aires. Qualification 7. 120 hours.

Sludge treatment and use. Director: PhD. María Julia Mazzarino. Faculty of Engineerin de la University of Buenos Aires. Fecha July 2013. Qualification 8.50. 20 hours.

Soil genesis. Director: PhD. Perla Imbellone. Escuela para Graduados Alberto Soriano, Faculty of Agronomy of Buenos Aires. Fecha April 2013. Qualification 9. 160 hours

Pollutant management and flow. Director: PhD Raúl Lavado. Escuela para Graduados Alberto Soriano, September 2013. FAUBA. Qualification 9. 160 hours.

Horticulture. 30 hours. Agronomy Faculty, University of Buenos Aires. 2012

History science. Bachelor on Biological Science of Faculty Exact and Natural Sciences University of Buenos Aires. 2008. 100 hours

WORK EXPERIENCE

2020-2018 Teacher in Agronomy Faculty, UBA, chair Edafología. 5th June of 2018. Resolución CD 466/18. Expte. 41.730/18. Subjets: Edaphology, Bioindicators of pollutants and Chemistry of pollution and toxicology.

2020-2008 Math and physicochemistry High school teacher, in Instituto Superior Ceferino Namuncurá (Boulogne, San Isidro, Argentina).

2018-2015 Assistant teacher in Agronomy Faculty, UBA, chair Edafología. 12nd of September 2015. Resolución CD 1937/15. Expte. 60.882/14. Subjets: Edaphology, Bioindicators of pollutants and Chemistry of pollution and toxicology.

2017 Internship in Silicon research laboratory "Silicio na Agricultura" in Federal University of Uberlandia, Uberlandia, Mina Gerais, Brasil. September 2017. Professor PhD. Gaspar H. Korndörfer,

- 2015-2008** Assistant teacher in Agronomy Faculty, UBA, chair Edafología 15th of March 2011, N° Expte. 160.384/10 C/Vs. 1 y 2.
- 2011- 2009** Garden teacher en La escuela del árbol, nivel inicial y primario (Colegiales, Buenos Aires, Argentina).
- 2005** Intership in rural communities of Santiago del Estero, Argentina.
“Cost effective control and monitoring strategies for elimination sustained of *Triatoma infestans* in rural areas”
Bunge y Born Foundation.
- 2002** Intership in Brazilian island, Chaco province, Argentina
Proyect “Seed dispersión through monkey egestas”

LANGUAGES AND COMPUTER SKILLS

SPANISH: High level. Native

ENGLISH: Intermediate level. Certification of foreign language 3 (CILE 3), University of Buenos Aires.

PC: Windows, Word, Excel, PowerPoint, Corel, Paint, Adobe Reader, Statistical.

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