



## *Curriculum vitae*

### Personal details

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Name: **Casas Cecilia**  
Nationality: Argentine  
City and date of birth: Buenos Aires, Argentine.  
13<sup>th</sup> of April 1983

Work address: Chair of Grassland (Lehrstuhl für Grünlandlehre).  
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### Current position

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**Postdoctoral researcher.** Chair of Grassland (Lehrstuhl für Grünlandlehre). Department of Plant Science. Technische Universität München.

**Senior Demonstrator** (*interim, exclusive*). Soil Department. Natural Recourses and Environment. Faculty of Agronomy. UBA. Since April 2013 (Res. C.D. 3846 – Exp. UBA 18.207/13. Res. C.D. 151 – Exp. UBA 8,627/14. C.D. 154 – Exp. UBA 16,310/15). Leave of absence since Sept 1<sup>st</sup> 2015 (Res. C.D. 1782. Exp. UBA 49,091/15)

**Teaching Assistant 1st class** (*regular, exclusive*). Soil Department. Natural Recourses and Environment. Faculty of Agronomy UBA. Since July 2008. (Res. D.C. 2,397/08).

### Academic degrees

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Mar. 2006- Oct. 2012. **PhD in Agricultural Science.** Graduate School “Eng. Agr. Alberto Soriano”, Faculty of Agronomy- University of Buenos Aires. Res. CONEAU N° 373/99. Res. Min. N° 645/11. **Thesis:** The symbiosis between grasses and endophytic fungi: the legacy above and belowground in different agro-ecological contexts. **Advisor:** PhD. Marina Omacini (C.S. 4700/93. Res 165.345/12).

Apr. 2001- Mar. 2006. **B.Sc. (Hons) Agricultural Engineer**. Faculty of Agronomy UBA. Final grade: 9.19/10 (*Honours and Gold Medal Award*)

Mar. 1996- Dec. 2000. Secondary education oriented in biological sciences. Superior Normal School N° 2 "Mariano Acosta". Final grade: 9.3/10

## **Publications**

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### ***Books and book chapters (4)***

2015. **Casas C.**, Romaniuk R. Reacción del suelo (pH). En "Prácticas edafológicas con fines didácticos". (2<sup>da</sup> Ed). Editor: Dr. Cosentino Diego J. Editorial Facultad de Agronomía. Buenos Aires, Argentina. Pp 112-128 ISBN 978-987-29338-6-9-1
2015. Romaniuk R, **Casas C.** Poder buffer o capacidad reguladora del suelo. En "Prácticas edafológicas con fines didácticos". (2<sup>da</sup> Ed). Editor: Dr. Cosentino Diego J. Editorial Facultad de Agronomía. Buenos Aires, Argentina. Pp 130-135 ISBN 978-987-29338-6-9-1
2015. Chirkes J., **Casas C.** Conceptos básicos de química aplicados a la Edafología (Anexo IV). En "Prácticas edafológicas con fines didácticos". (2<sup>da</sup> Ed). Editor: Dr. Cosentino Diego J. Editorial Facultad de Agronomía. Buenos Aires, Argentina. Pp 112-128 ISBN 978-987-29338-6-9-1
2014. Garibaldi L.A., **Casas C.**, Biganzoli F. Datos jerárquicos en Ciencias Ambientales: ejemplos prácticos y análisis de modelos jerárquicos en lenguaje R. **Diseño y diagramación: Casas C.** pp.242. ISBN 978-987-33-6434-1 (<https://sites.google.com/site/datosjerarquicos/>)

### ***Articles in peer-reviewed journals (5)***

2015. **Casas, C.**, Torretta, J. P., Exeler, N., & Omacini, M. What happens next? Legacy effects induced by grazing and grass-endophyte symbiosis on thistle plants and their floral visitors. *Plant and Soil*. <http://doi.org/10.1007/s11104-015-2644-9>
2014. Striker G.G., **Casas C.**, Manzur M.E., Ploschuk R.A., Casal J.J.. Phenomic networks reveal largely independent root and shoot adjustment in waterlogged plants of *Lotus japonicus*. *Plant, Cell & Environment*. n/a–n/a. doi:10.1111/pce.12268
2012. Gundel, P., M. Helander, **C. Casas**, C. Hamilton, S. Faeth, and K. Saikkonen. *Neotyphodium* fungal endophyte in tall fescue (*Schedonorus phoenix*): a comparison of three Northern European wild populations and the cultivar Kentucky-31. *Fungal Diversity*. 60(1), 15–24. doi:10.1007/s13225-012-0173-x
2012. Garcia Parisi, P, **C. Casas**, P. Gundel y M. Omacini. Consequences of grazing on the vertical transmission of fungal *Neotyphodium* symbiont in an annual grass population. *Austral Ecology*. 37 (5), 620–628. doi:10.1111/j.1442-9993.2011.02325.x
2011. **Casas, C.**, Omacini, M., Montecchia M.S., Correa O.S. Soil microbial community responses to the fungal endophyte *Neotyphodium* in Italian ryegrass. *Plant and Soil*. 340 (1): 347-355. DOI 10.1007/s11104-010-0607-8

### ***Short articles in book congress with peer review (3)***

2015. **Casas C.**, Regonat M., Berrios V., Buscio R. y Garibaldi L. A. Mesofauna del suelo asociada a especies arbustivas nativas del matorral patagónico. Cuarto Congreso Nacional de Ecología y Biología de Suelos–CONEBIOS IV. 28-30 April. Ciudad de Esquel, Chubut, Argentina.
2014. Mayoral L., **Casas C.**, Panomarenko J., Berrios V., Buscio R. y Garibaldi L.A. Controles sobre la reserva de materia orgánica asociada a minerales del suelo. XXIV Congreso Argentino de la Ciencia

del Suelo, II Reunión Nacional de Materia Orgánica y Sustancias Húmicas: Producción sustentable en ambientes frágiles. 5-9 May. Bahía Blanca, Argentina.

2014. Berrios V., Casas C., Mayoral L., Alvarez Soria H.L., Perren G. y Garibaldi L.A. Árboles nativos con potencial productivo controlan el ambiente edáfico del matorral alto. XXIV Congreso Argentino de la Ciencia del Suelo, II Reunión Nacional de Materia Orgánica y Sustancias Húmicas: Producción sustentable en ambientes frágiles. 5-9 May. Bahía Blanca, Argentina.

### ***Theses (2)***

2012. Casas Cecilia. The symbiosis between grasses and endophytic fungi: the legacy above and belowground in different agro-ecological contexts. PhD Thesis in Agricultural Science. Graduate School "Eng. Agr. Alberto Soriano", Faculty of Agronomy- University of Buenos Aires, Argentina, 162 pp. Spanish  
(<http://ri.agro.uba.ar/files/intranet/tesis/doctorado/2012ceciliacasas.pdf>)
2006. Casas Cecilia. Respuesta de la microflora edáfica a la presencia del endofito *Neotyphodium* sp. en plantas de *Lolium multiflorum*. B.Sc. Thesis. Agricultural Engineer. Faculty of Agronomy, University of Buenos Aires, Argentina, 52 pp. Spanish  
(<http://ri.agro.uba.ar/files/intranet/intensificacion/cd217.pdf>).

### ***Presentations at congresses and symposiums***

#### ***- International (6)***

2015. Casas C., del Toro C., Deliens E., Casabella MP, García Martínez GC, Nagahama N, Vignale MV, Iannone LJ, Schnyder H, Gundel PE (2015) Incidence of fungal endophyte in the preferred grass *Hordeum comosum* associated to environmental stress gradients in Patagonia. 5th Int. Symp. Forage Breeding. 19th – 21st October. Buenos Aires, Argentina
2013. Striker G., Manzur M.E., Ploschuck R.A., Casas C., Casal J.J. Natural variation in ecophysiological traits of waterlogging tolerance in *Lotus japonicus*. 11<sup>th</sup>. Conference of the International Society for Plant Anaerobiosis. Theme: transitional science. 6-11 October. IRRI Headquarters. Los Baños, Laguna, Philippines ([www.ispa2013.org](http://www.ispa2013.org). Accessed nov-2013).
2011. Vujassin J., Gundel P.E., Golluscio R., Casas C. Persistence and production of tall fescue (*Schedonorus phoenix*) infected with a novel non-toxic *Neotyphodium* endophyte. IX International Rangeland Congress - IRC2011, "Diverse Rangelands for a Sustainable Society". April. Rosario (Argentina). Poster
2010. Gundel P.E. García Parisi P., Casas C., Omacini M., Martínez-Ghersa M.A., Garibaldi L.A., Ghersa C.M. Rate of *Neotyphodium* endophyte vertical transmission imposed by host grass fitness threshold. Meeting of the Mycological Society of America (MSA) and the International Symposium on Fungal Endophytes of Grasses (ISFEG). July, Lexington, Kentucky (Estados Unidos). Poster
2010. Omacini M., Mallarini M., Casas C., Ghersa C.M. Annual grass fungal endosymbionts decrease the vulnerability of symbiotic-free neighbors to *Sypha maydis* 95th ESA Annual Meeting, 1 - 6 August, Pittsburgh (United States). Poster
2007. Casas C., Ghersa C.M., Correa O., Omacini M. 2007. El impacto del endofito *Neotyphodium* sobre la relación entre su planta hospedante, el pastoreo y la microbiota del suelo. III Reunión Binacional de Ecología Sociedad de Ecología de Chile, Asociación Argentina de Ecología, 30 Sept. - 4 Oct., La Serena (Chile). Poster

- *National (9)*

2014. Garibaldi L. A., **Casas C.**, Biganzoli F. Desafíos del análisis estadístico de datos generados por investigadores en distintas partes del mundo. XXVI Reunión Argentina de Ecología. RAE. 2 - 5 de noviembre. Comodoro Rivadavia, Chubut, Argentina. Seminar
2014. Buscio R., **Casas C.**, Berrios V., Garibaldi L.A. Mesofauna del suelo en relación a leñosas nativas del matorral patagónico. XXVI Reunión Argentina de Ecología. RAE. 2 - 5 de noviembre. Comodoro Rivadavia, Chubut, Argentina. Poster.
2014. Goldenberg, M. G., Garibaldi, L. A., **Casas, C.**, Gowda J. H. Evaluación de alternativas de manejo y plantación forestal en bosques mixtos en Río Negro. XXVI Reunión Argentina de Ecología. RAE. 2 - 5 de noviembre. Comodoro Rivadavia, Chubut, Argentina. Oral presentation.
2013. Landesmann J.B., **Casas C.**, Garibaldi L.A., Gowda J.H., Heinemann K., Kitzberger T y Langlois J.P. Silvicultura del ciprés de la cordillera, ¿una alternativa rentable y sustentable en la provincia de Río Negro? Jornadas PIAs 2013, Ministerio de Agricultura, Ganadería y Pesca, 27-28 of June. CABA.
2012. Hourcagne M., **Casas C.**, Krausse G., Cresta A., Gundel P.E. Respuesta a la defoliación en *Festuca arundinacea* asociada al endofito ar584. 25° Reunión Argentina de Ecología, septiembre, Lujan. Poster.
2012. Kuang X., **Casas C.**, Manzur M. E., Striker G. G. Realidades y mitos del beneficio de la estrategia de escape a la sumersión. Evidencias experimentales utilizando *Chloris gayana*. XXIX Reunión Argentina de Fisiología Vegetal, septiembre, Mar del Plata. Poster.
2010. García Parisi P. A, **Casas C.**, Gundel P.E., Omacini M. El pastoreo reduce la transmisión vertical y la persistencia del endofito *Neotyphodium* en *Lolium multiflorum*. IV Reunión Binacional de Ecología, August, Buenos Aires. Poster
2009. García Parisi P.A., **Casas C.**, Gundel P.E., Omacini M. Relación entre el pastoreo y la eficiencia de transmisión del endofito *Neotyphodium* en raigrás anual. 32th Congreso Argentino de Producción Animal, 14 - 16 October, Malargüe, Mendoza. Poster
2006. **Casas C.**, Correa O., Omacini M. Respuesta de la microflora edáfica a la presencia del endofito *Neotyphodium* sp. en plantas de *Lolium multiflorum*. XXII Reunión Argentina de Ecología, 1 - 5 August, Córdoba. Poster.

***Works in progress (2)***

*Articles for peer-reviewed journals*

- Casas C**, Gundel PE, Semmartin M, Omacini M. Does a fungal endophyte control the invasion ability of an annual grass in grasslands with different grazing history? Submitted to Biological invasions. BINV-D-14-00173R3. Reviewers assigned (06 Oct. 2015)
- Casas C.**, Langlois J. P., Gowda J., Landersman J., Kitzberger T., Garibaldi L. A. Predicting native forest productivity from environmental variables.

**Research experience**

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***Participation in research funded projects (11)***

As a member or collaborator

- 2015-2016. Bilateral Cooperation Project CONICET (Argentina) and BAYLAT (Germany). "HALOSYMB. Vegetation-mediated changes in halomorphic soils properties: consequences for the establishment and function of a legume-rhizobium-mycorrhiza symbiosis". IFEVA, FAUBA-CONICET (Argentina) y Chair of Grassland Science, Technische Universität München (Germany). Funded.
- 2014-2017. Variación, seguimiento y prospección de la productividad y calidad forrajeras. Estudios básicos y herramientas tecnológicas para la sostenibilidad ganadera argentina. Dir.: Dr. Martín Oesterheld. ANPCyT. FONCyT PICT 2013-1785. Funded
- 2014-2017. El uso de reservas reales de agua del suelo en balances hídricos con fines agronomicos. Dir.: Dra. Olga Heredia, Co-dir.: Dr. Diego J. Cosentino. UBACyT 20020130100471BA. Funded
- 2014-2016. Tecnología de procesos en el bosque mixto nativo: interacciones aéreas y subterráneas entre plantas e insectos. Dir.: Dr. Lucas A. Garibaldi. PICT 2013-1079. Funded.
- 2013- Dic. 2015. Plantas forrajeras en condiciones de estrés: controles ambientales que regulan su introducción y producción. Dir.: PhD. Agustín Grimoldi. Codir.: PhD Gustavo Striker Code UBACyT 20020120200134BA. Funded and accredited (score: 98/100).
- 2013- 2015. Manejo sustentable del bosque nativo y del bosque invadido con pinos exóticos en Río Negro. Componente de plantaciones forestales sustentables. Proyecto Manejo Sustentable de Recursos Naturales BIRF LN 7520 AR. Proyecto de conservación de la biodiversidad en Paisajes productivos forestales – GEF TF 090118. BIO SILVA. Ministerio de Agricultura, Ganadería y Pesca. Presidencia de la nación. Coord.: Dr .Lucas Garibaldi.
- 2012- 2015. Introducción de gramíneas megatérmicas en suelos hidrohalmórficos de pastizales Pampeanos templados. Variabilidad inter e intraespecífica en la tolerancia a la inundación y al frío. Dir. PhD. Gustavo G. Striker. UBACyT programación científica. Code 20020110200031.
- 2011- 2013. Silvicultura del ciprés de la cordillera. ¿Una alternativa rentable y sustentable en la provincia de Río Negro? Proyecto Manejo Sustentable de Recursos Naturales BIRF 7520 AR Componente Plantaciones Forestales Sustentables. PIA n° 10058. Dir.: Dr. Thomas Kitzberger. Alta solicitada.
- 2011- 2014. Significado ecológico de la interacción entre pastos, hongos endofitos y herbívoros en distintas escalas espaciales. Dir. PhD. María Semmartin. UBACyT programación científica. Code 599.
- 2008- 2010. Cambios en el funcionamiento de la microbiota del suelo de un pastizal pampeano generados por las respuestas de las plantas al pastoreo doméstico y a la simbiosis con hongos endofitos". Dir.: PhD. M. Omacini. PICT 992
- 2007- 2008. Efectos combinados de microorganismos simbioses de tejidos foliares y radicales sobre interacciones multitroficas. Dir: PhD. M. Omacini. DAAD/SECYT DA0602.
- 2004- 2007. Adversidades bióticas y abióticas en sistemas de producción agropecuaria: asociaciones mutualísticas y adaptaciones genéticas Dir: Eng. Agr. C. M. Ghersa. UBACyT G042.

#### ***Stays and visits in foreign universities and research institutes (4)***

2014. Short-term stay. Writing of a proposal for a research project in the framework of the SFB 1152 "Holobiont-like Principles in Plant Systems. Generic Functions and their Mechanisms across Scales", leading scientist: Prof. Dr. Rainer Matyssek. Seminar exposition. Invited by Prof. Dr. sc. Techn. ETH Hans Schnyder responsible for the Chair of Forages at the Technical University of Munich (Lehrstuhl für Grünlandlehre TUM), Freising, Germany. Sept.

2011. Short-term stay. Seminar exposition. Writing of a proposal for a research project in the framework of the SFB 1152 "Holobiont-like Principles in Plant Systems. Generic Functions and their Mechanisms across Scales", leading scientist: Prof. Dr. Rainer Matyssek. Invited by Prof. Dr. sc. Techn. ETH Hans Schnyder responsible for the Chair of Forages at the Technical University of Munich (Lehrstuhl für Grünlandlehre TUM), Freising, Germany. Nov.
2011. Short-term stay. Seminar exposition. Statistical analysis and discussion of the results. Invited by Dr. sc. Kari Saikkonen (Researcher at the MTT Agrifood Research Finland), Jokioinen, Finland. Dec.
2008. Short-term fellowship for research in the Department for Biology and Chemistry (FB05) Osnabrück University (Germany) Dr. Till Eggers. Under the project "Efectos combinados de microorganismos simbiotes de tejidos foliares y radicales sobre interacciones multitróficas" (DA 0602) directed by Dr. Marina Omacini and Dr. Anselm Kratochwil - MINCyT – Agencia Nacional de Promoción Científica y Tecnológica. May - July.

#### ***Attendance to conferences (4)***

2004. Jornadas de Biología de Suelos. 19 -21 de May, Faculty of Agronomy UBA, Buenos Aires.
2003. Problema asociados a la Fusariosis en trigo y Estrategias para su Prevención. 3 - 4 June, Bolsa de Cereales de Buenos Aires.
2003. 3º Jornada Abierta de Lechería" organizada por la Cátedra de Producción Lechera de la FAUBA, 17<sup>th</sup> of October, Buenos Aires.
2002. Seguridad en Laboratorios. 2<sup>nd</sup> of May, Faculty of Agronomy UBA, Buenos Aires.

#### ***Reviewer in scientific journals (8)***

Microbial Ecology (4 reviewed manuscripts, editor Karen Nelson)

Plant and Soil (3 reviewed manuscripts, editor Katharina Pawlowski)

Ciencia del Suelo (1 reviewed manuscript, editor Dr. Fernando Salvaggiotti)

#### **Teaching positions**

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- March 2015 - present. Senior Demonstrator (Chief of Practical Assignments, interim). Soil Department. Natural Recourses and Environment. Faculty of Agronomy. UBA (Res. C.D. 154. Exp. UBA 16310/15). Leave of absence since Sept 1<sup>st</sup> 2015 (Res. C.D. 1782. Exp. UBA 49,091/15).
- Apr 2014 - March 2015. Senior Demonstrator (Chief of Practical Assignments, alternate). Soil Department. Natural Recourses and Environment. Faculty of Agronomy. UBA (Res. C.D. 151. Exp. UBA 8.627/14).
- Apr 2013 - Apr 2014. Senior Demonstrator (Chief of Practical Assignments *ad-honorem*). Soil Department. Natural Recourses and Environment. Faculty of Agronomy. UBA. (Res. C.D. 3846. Exp. UBA 18.207/13).
- 2008 – present. Teaching Assistant 1st class regular exclusive. Soil Department. Natural Recourses and Environment. Faculty of Agronomy UBA (Res. D.C. 2397/08 provisional. Res. D.C. 1298/10 regular from 15th of Mach, 2011).
- 2006 – 2008. Teaching Assistant 1st class "ad-honorem" simple dedication. Microbiology Department. Apply Biology and Food. Faculty of Agronomy UBA (Res D.C. 123)



- 2004 – 2006. Undergraduate Teaching Assistant simple dedication. Microbiology Department.  
Apply Biology and Food. Faculty of Agronomy UBA (Res. D.C. 2304. and Res. D.C.1286)
- 2002 – 2004. Laboratory Assistant “ad-honorem” simple dedication. Microbiology Department.  
Apply Biology and Food. Faculty of Agronomy UBA
- 2002 – 2001. Laboratory Assistant “ad-honorem” simple dedication. Biochemistry Department.  
Apply Biology and Food. Faculty of Agronomy UBA.

## **Grants and awards received**

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### ***Grants***

- Sept 2015- Sept 2016. DAAD (German Academic Exchange Service) Postdoctoral Scholarship within the Country-related cooperation programme with Argentina - ALEARG Promotion, 2015 (Ref. number 91583544).
- 2008- 2011. Postgraduate Scholarship Type I. CONICET (Res. D n° 29).
- 2006- 2008. Master Science Scholarship. UBA (Res. 6179/05). Under the project “Adversidades bióticas y abióticas en sistemas de producción agropecuaria: asociaciones mutualísticas y adaptaciones genéticas” Director: Agr. Eng. Claudio M. Ghera.
- 2003- 2006. Undergraduate scholarship from “Fundación Mosoteguy”

### ***Awards***

2014. Max Schönleutner Awards for incoming scientists (Technische Universität München- Hans Eisenmann-Zentrum für Agrarwissenschaften).
2011. Category V under the Incentive Program for Faculty Researchers from National Universities (Leg. N° 30218713, Dto. 2427/93, res. N° 2937)
2009. Golden Diploma from the University of Buenos Aires.
2008. Best graduate. Awarded by the Bank Santander Rio.
2007. Diploma of Honour from the University of Buenos Aires.
2005. Standard-bearer of the Faculty of Agronomy, UBA (Res. D.A. 75/05).
2004. Standard-bearer of the Faculty of Agronomy, UBA (Res. D.A. 52/04).
2003. Standard-bearer of the Faculty of Agronomy, UBA (Res. D.A. 444/03).

## **Teaching experience**

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### ***Graduate courses taught***

2014. "Environmental Science hierarchical data: collection and analysis with R". Biometrics and Improvement Program. Graduate School "Alberto Soriano". FAUBA. Teacher: PhD. Lucas Garibaldi (48 h). Design and writing of the practical activities as well as assist students during the course.
2013. “Mixed effects models in environmental and social sciences: data collection and analysis with R”. Centro Nacional Patagónico (CENPAT), Puerto Madryn-Argentina. Teacher: PhD. Lucas

Garibaldi (48h). Design and writing of the practical activities as well as assist students during the course.

2011. "Environmental Science hierarchical data: collection and analysis with R". Biometrics and Improvement Program. Graduate School "Alberto Soriano". FAUBA. Teacher: PhD. Lucas Garibaldi (48 h). Design and writing of the practical activities as well as assist students during the course.

### ***Undergraduate courses taught***

- 2011- present. Soil Science. Agricultural Engineering and Bachelor in Environmental Sciences. FAUBA (80 h per course). Tutor of practical courses, which have strong focus on soil formation and taxonomy, physical and chemical characteristics and, their functional consequences for plant growth.
- 2011- present. Soil Science. Technician in Organic Vegetable Production. FAUBA (80 h per course). Assistant or tutor of practical courses, which have strong focus on soil physical and chemical characteristics as well as, formation and management of organic matter and, their consequences for plant growth.
- 2008- 2014. Soil Science. Agricultural Engineering and Bachelor in Environmental Sciences. FAUBA. Assistant of practical courses, which has strong focus on soil formation and taxonomy, physical and chemical characteristics and, their functional consequences for plant growth (80 h per course).
- 2009 - 2011. Bioindicators. Bachelor in Environmental Sciences. FAUBA (45 h per course). Assistant of one course, which has focused on paper discussion and theoretical lectures about the use of living organisms as indicator or sensors of different kinds of contamination.
- 2002 - 2008. Agricultural Microbiology. Agronomic Engineering and Bachelor in Environmental Sciences. FAUBA. Assistant (45 h per course). Assistant of practical courses focused on biology and biochemistry of microorganisms, biogeochemical cycle of carbon and nutrients and, main groups of soil microorganisms. The students develop basic methods of microbiology. They observe under microscope bacteria isolated from soil (gram positive and negative). They also observe Rhizobium sp. nitrogen fixing bacteria isolated from plant nodules.

### ***Other courses taught***

2011. "Data management and descriptive statistics using R language." Course taught Remediation Group. Ministry of Health of the Nation (48 hours). As responsible of this course, I performed theoretical lectures and practices. The course included basic notions of the R environment and language and, a set of tools for data management and descriptive statistics.

### ***Material for graduate courses***

See book listed in Publication section.

### ***Material for undergraduate courses***

See chapters book listed in Publication section.



2011. **Casas C.**, Romaniuk R. Reacción del suelo (Unit 12). Practical guide for Soil's lecture. Centre of Impressions of School of Agronomy, University of Buenos Aires, Argentina. Coordinated and edited by Dr. Diego J. Cosentino
2011. Romaniuk R, **Casas C.** Capacidad reguladora del suelo (Unit 13). Practical guide for Soil's lecture. Centre of Impressions of School of Agronomy, University of Buenos Aires, Argentina.

*Collaboration in the writing of the following study guides (FAUBA)*

- 2011-2013. Soil Course. Practical guide for Soil's lecture. Centre of Impressions of School of Agronomy, University of Buenos Aires, Argentina. Coordinated and edited by Dr. Diego J. Cosentino
2011. Bioindicators Course. Study Guide and activities. Centre of Impressions of School of Agronomy, University of Buenos Aires, Argentina. Coordinated and edited by Eng. Ernesto B. Giardina.

## **Human resources training**

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### ***Diploma theses, bachelor theses (10)***

- Ongoing. Rocio Buscio. El ambiente y la mesofauna del suelo asociados a leñosas nativas del matorral patagónico. Thesis for the degree in Bachelor in Environmental Sciences FAUBA. **Adviser.** Co-adviser: Ing. Agr. Regonat, Marisa
- Ongoing. Juan Javier Martinez. Propuestas de usos no madereros en bosques nativos del NE patagónico. Thesis for the degree in Agricultural Engineering FAUBA. **Internal adviser.** External adviser: Dr. Lucas A. Garibaldi
2015. Lucia Mayoral. Avances sobre la teoría de saturación de la materia orgánica, ¿qué factores controlan la reserva de materia orgánica del suelo? Thesis for the degree in Bachelor in Environmental Sciences FAUBA. **Adviser.** Co-adviser: Dr. Lucas A. Garibaldi. Score 10/10
2014. Martín Hourcastagne. Respuesta a la defoliación en festuca alta (*Schedonorus phoenix*) modulada por la presencia del endófito no-tóxico (*Neotyphodium coenophialum*). Thesis for the degree in Agricultural Engineering FAUBA. Adviser: Dr. Pedro Gundel. **Co-adviser.** Score 10/10
2014. Matias Guillermo Goldenberg. Evaluación de proyecto forestal con Ciprés de la cordillera en bosque de matorral alto en Río Negro. Thesis for the degree in Agricultural Engineering FAUBA. **Internal adviser.** External adviser: Dr. Lucas A. Garibaldi. Score 10/10
2014. Xiaolin Kuang. Tolerancia a la sumersión de *Chloris gayana* Kunth en el estado ontogénico de plántula. Thesis for the degree in Bachelor in Environmental Sciences FAUBA. Adviser: Dr. Gustavo Striker. **Co adviser.** Score 10/10
2013. Langlois Juan Pablo. Silvicultura de ciprés de la cordillera: condiciones de sitio y rendimiento. Thesis for the degree in Agricultural Engineering FAUBA. Adviser: Dr. Lucas A. Garibaldi. **Co adviser.** Score 10/10
2011. Gavilán Sebastian. La simbiosis entre *Neotyphodium occultans* y raigrás anual (*Lolium multiflorum*) y sus consecuencias en el rendimiento del trigo (*Triticum aestivum*). Thesis for the degree in Agricultural Engineering FAUBA. Adviser: Dra. Marina Omacini. **Consultant.** Score 10/10
2010. Pablo Garcia Parisi. Fallas en la transmisión del endofito *Neotyphodium occultans* en *Lolium multiflorum* y su relación con el pastoreo. Thesis for the degree in Agricultural Engineering FAUBA. Adviser: Dra. Marina Omacini. **Co adviser.** Score 10/10

2010. Maximiliano Mallarini. La simbiosis entre *Lolium multiflorum* y el endofito *Neotyphodium occultans* confiere resistencia por asociación a plantas vecinas. Thesis for the degree in Agricultural Engineering FAUBA. Adviser: Dra. Marina Omacini. **Consultant**. Score 10/10

### ***Activities with undergraduate students***

2013 – 2015. I perform activities at Soil Department Laboratory for training in sampling and common methods as well, I organize papers discussion meetings. At the moment I meet with a group of three students from Bachelor in Environmental Sciences weekly. I hope to advise them during the development of their Bachelor Theses.

### ***Jury thesis (2)***

2015. Abuamscha Martín. Variabilidad espacial de propiedades edáficas de relevancia en la producción agropecuaria: caracterización por uso en la Pampa Deprimida. Thesis for the degree in Agricultural Engineering FAUBA. March 26<sup>th</sup>. Score 8/10

2014. Comparin Matías. Efecto del uso agrícola sobre la variabilidad especial de distintas propiedades edáficas en Pampa ondulada. Thesis for the degree in Agricultural Engineering FAUBA. Nov. 14<sup>th</sup>. Score 10/10

### **Memberships**

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2013 - present. Agricultural Engineering Professional Council (CPIA. Mat. 17471)

2013 - present. Asociación Argentina de Ciencias del Suelo (En. Argentine Association of Soil Science)

### **Graduate courses attended**

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2009. "Ecological data and statistical models" Advanced courses Program. CCT CONICET Mendoza-PROBIOL-UNCuyo. Teacher: Dr. Benjamisn M. Bolker. Final grade: 10/10.

2008. "Use of stable isotopes in the study of ecosystems." Animal Production Department - Faculty of Agricultural Sciences– UNMP. Teacher: Dr. Fernando Lattanzi. Final grade: 10/10

*At the Graduate School "Eng. Agr. Alberto Soriano". Faculty of Agronomy, University of Buenos Aires.*

2007. "Ecology of plant populations". Teacher: Dr. Martín Aguiar. Final grade: 9/10

2007. "Physiology of forage plants". Teacher: Dr. Alejandro Dereguibus – Dr. Agustín Grimoldi. Final grade: 9/10

2007. "Fundamentals and recent advances in ecology". Teacher: Dr. Martín Aguiar. Final grade: 9/10

2007. "Design of Experiments". Teacher: Eng. Agr. Valeria Schindler de Ávila. Final grade: 9/10

2007. "Soil Biochemistry". Teacher: Dr. Paolo Nannipieri. Final grade: 9/10

2007. "Statistics applied to biological research". Teacher: Eng. Agr. Susana Perelman. Final grade: 9/10

2006. "Population Ecology of Plant-Herbivore". Teacher: Dr. Martín Oesterheld. Final grade: 10/10

2006. "Preparation and publication of scientific papers". Teacher: Dr. Martín Oesterheld. (no final grade /optional)
2006. "Laws in Ecology". Teacher: Dr. Martín Aguiar. Final grade: 9/10
2006. "Sustainability of agro ecosystems". Teacher: Eng. Agr. Claudio M. Ghersa. Final grade: 9/10
2005. "Grassland Ecology". Teacher: Dr. Rodolfo A. Golluscio. Final grade: 10/10

### **Volunteering/community service/non-paid internships**

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- 2014 - present. Observer in representation of graduate students during competitive selection called for assistants in various Departments of the Faculty of Agronomy, UBA (DA 291. EXP-UBA 20.885/2014)
- 2013 - 2014. Coordinator and integrant of the volleyball team at the Faculty of Agronomy, UBA.
- 2006- 2012. Invite student of last year from secondary school "Mariano Acosta" to visit the Faculty of Agronomy, University of Buenos Aires. The visits included a friendly talk with student and, sometimes I have also visited the school. The activity ended when the contact teacher retired.
- 1998-2000. Participation in the Project "Operation Malimán" with objectives related to social welfare and pedagogy in schools located in disadvantaged locations. The Superior Normal School N°2 "Mariano Acosta" attends schools in Malimán and, Huaco in the Province of San Juan, Argentina.

### **Other skills**

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#### ***Statistics***

R-cran environment I have experience in nlme and lme4 (both for mixed models including random factors, spatial and temporal correlation. Advanced), MuMIn (Multi-model inference. Advanced), qtl (QTL analysis. Intermediate), vegan (parametric and non-parametric multivariate analysis. Intermediate), lattice (graphical tools. Advance), lsmeans (Least-Squares Means, intercept and slope regression comparison. Advanced), multcomp (multiple comparisons. Advanced), bbmle (fit model comparisons (AIC, BIC). Advanced), ggplot2 (graphical tools. Basic), among other additional packages.

Others data analysis programs: InfoStat, Prisma, PCord.

#### ***Computing***

Managing operating systems Windows, Ubuntu (Linux) and Mac

Management of word processors, spreadsheets, presentations organizer, the Internet browsers and search engines, graphic design.

#### ***Languages***

- Spanish (native)

- English (fluent)

2010. "Writing Scientific Papers in English". Teacher: Mr. Dr. Virginia G. Eusevi. August. Approved.

Program of Improvement Cycle. Extracurricular English at the UBA. Level I approved.