

CURRICULUM VITAE

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| PERSONAL DATA |  |
| Last name: | De Siervi |
| First and middle name: | Marcelo Silvano |
| Marital Status: | Married (2 children) |
| Age: | 52 years old. |
| Nationality: | Argentine |
| Date of Birth: | October 17, 1968 (Buenos Aires, Argentina) |
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A. UNIVERSITY DEGREES

A-1 GRADE

UNIVERSITY STUDIES: Agricultural Engineer.

University of Buenos Aires, Faculty of Agronomy. (December 15,1995)

A-2 POSTGRADUATE

- **Doctor in Terrestrial Ecosystems, Sustainable Use and Environmental Implications. University of Vigo- SPAIN.** Director: Dr. Alicia. F. de Iorio.

Title: DYNAMICS OF NUTRIENTS AND METALS IN RUNOFF WATERS OF AN AGRICULTURAL BASIN (MATANZA - RIACHUELO BASIN - ARGENTINA)

Thesis defended February 5, 2016 (Excellent *cum laude*). Jury: Dr. Antonio Paz González (University of La Coruña-SPAIN), Dr. Juan Fernando Gallardo Lancho (University of Salamanca-SPAIN), Dr. Emma Fernández Covelo (University of Vigo-SPAIN).

- **Magister Scientiae in Soil Sciences. Graduate School of the Faculty of Agronomy UBA.** Director: M. Sc. Alicia F. de Iorio, Counselor Dr. Celio I. Chagas.

Thesis title: EFFECT OF DRIPPING ON THE REDISTRIBUTION AND AVAILABILITY OF HEAVY METALS IN SOILS OF THE MATANZA- RIACHUELO RIVER BASIN.

Thesis defended October 26, 2008. Jury: Dr. Rosa M. Torres Sanchez, Independent Researcher CONICET, and Dr. Gustavo Curutchet (biochemist, UNLP, professor at Unsam-Conicet).

B. TEACHING BACKGROUND

B.1) - University level teaching positions

- Adjunct Professor "ad honorem" with exclusive dedication of the Chair of Inorganic and Analytical Chemistry. FAUBA C.D. 5601 CUADAP: EXP-UBA 11.174/18 (From Feb. 27, 2018 to date).
- Head of Practical Works with exclusive regular dedication of the Chair of Analytical Chemistry. FAUBA (From Dec. 17, 2015 to date).
- Head of Practical Works with exclusive dedication Interim of the Chair of Analytical Chemistry. FAUBA (From March 12, 2013 to Dec.16, 2015).
- Assistant Professor of I.R.A.A. I Plots - Agricultural Production Engineering - Faculty of Agricultural Sciences - Pontificia Universidad Católica Argentina. From Apr.10, 2015 to date.
- Assistant Professor of Field Seminar I - University Degree in Agricultural Production - Faculty of Agricultural Sciences - Pontificia Universidad Católica Argentina. From Apr.10, 2015 to Dec.15, 2019.
- Head of Practical Works with semi-exclusive dedication 'ad honorem' of the Chair of Analytical Chemistry. FAUBA (as from Sept. 1st, 2008).
- Part-time First Assistant to the Chair of Analytical Chemistry. FAUBA (March 1st, 2000 to March 1st, 2001).
- First Assistant "ad honorem" Analytical Chemistry. FAUBA (March 1st, 1996 to March 1st, 2000).

B.2 Teaching in regular undergraduate courses

- Chemistry 65. Agronomy Engineering Career. Lecturer in charge of theoretical-practical shifts. Teaching of classes corresponding to the second module (area corresponding to the Chair of Analytical Chemistry). Year 2000-2007
- Applied Chemistry. Agricultural Engineering and Environmental Sciences. Teaching Commissions. (2008).
- Applied General Chemistry. Subject of the technical careers of Gardening, Floriculture and Organic Plant Production. Practical work teacher. 2008/2009.
- Determination of Chemical and Microbiological Quality of Water for Agricultural Use. Lecturer. Subjects presented: Saline Waters, Potentiometric determination of pH, EC and determination of $\text{CO}_3^{2-}/\text{HCO}_3^-$ in water samples. 2005 a 2010.

B.3 Teaching in Postgraduate courses at the School of Agronomy UBA

- Soil chemistry. Course of the Master's Degree in Soil Sciences. EPG-FAUBA. Director: Alicia Fabrizio de Iorio. Co-director: Alicia Rendina. Since 2016.
- Aquatic sediment chemistry. Course of the Master's Degree in Soil Sciences. EPG-FAUBA. Director: Alicia Fabrizio de Iorio. Co-director: Alicia Rendina. Subject: Mobility of heavy metals by runoff. Since 2010.
- Environmental Chemistry. Course of the Specialty in Environmental Management and Agrifood Systems. EPG. FAUBA. Director: Alicia Fabrizio de Iorio. Collaborating teacher. Since 2004.

C. SCIENTIFIC BACKGROUND, INCLUDING PUBLICATIONS OR OTHERS RELATED

Scientific Production

C.1. Publications in refereed journals

- Rendina, A., De Siervi, M., Ierace, G., Iorio, A.F. de. Exchangeable fraction of Fe in a halomorphic soil of the Depressed Pampa (Argentina). 1998 Revista Internacional Información Tecnológica (Chile). 9 (3): 139-144.
- Iorio A. F. de; Rendina, A.; Ierace, G.; De Siervi, M.; Bargiela, M.; García, A.. Exchangeable fraction of Cu and Zn in a halomorphic soil of the Pampa Deprimida, Argentina. 1998. International Journal of Technological Information (Chile). 9 (3): 145-150.
- De Siervi, M., Iorio, A.F. de., Chagas C I, 2003. Heavy metals in sediments and runoff waters in soils of the Matanza River Basin (Argentina). Communications in Soil Science and Plant Analysis. Vol. 36 No. 17 &18. Taylor & Francis. p. 2303 - 2314.
- Gottfriedt G, De Siervi M, Chagas C I, Iorio A F de. 2004. Laminar erosion in undulating Pampa soils with contrasting exchangeable sodium contents. Revista Ciencia del Suelo 22 (2) 2004.
- Chagas C.I., Piazza M.V., De Siervi Marcelo, Santanatoglia O.J., Moretton J., Paz, M., Iruetia C. 2007. Surface runoff water quality in extensive and intensive livestock systems in Argentina. Agrochimica Vol. LI - N. 2-3. LI (2-3):130-136. March-Giugno 2007.
- De Siervi M, Arreghini S, Iorio AF de. 2021. Runoff losses of sediment, organic matter and nutrients in the Argentinean Pampas. Spanish Journal of Agricultural

C 2 Chapters of books published by publisher with editorial board

- De Siervi M, Arreghini S, Iorio AF de. 2016. Estimation of metal and nutrient enrichment factors in runoff water and sediments using rainfall simulation in soils of a toposequence of the Matanza River Basin (Argentina). In: Ecology and Management of Pampas Aquatic Ecosystems, VIII EMEAP. 53-62pp. Ed. Volpedo A, Fernandez Cirelli A, de Cabo L, Arreghini S. 194pp.
- Fabrizio de Iorio, A.R., De Siervi, M. "Agrosistemas. Impacto Ambiental y Sustentabilidad" 2013 Edition: Lidia Giuffré & Silvia Ratto Editorial Facultad de Agronomía (EFA) ISBN 978-987-29338-38.
- De Siervi, M., Pool, S., Kandrachoff, M.L., Silva Busso, Adrian, Iorio A.F. de, 2011 Calidad de agua subterránea en el Partido de Esteban Echeverría (Cuenca Matanza-Riachuelo. Pcia. de Buenos Aires - Argentina) In: Medioambiente en Iberoamérica Visión desde la Física y la Química en los albores del siglo XXI tomo 3 Pag 611-620. Ed. Gallardo Lancho J. Country: Spain.

D. Papers presented and published in proceedings of refereed scientific meetings (Last 10 years)

- De Siervi, M., Arreghini, S., de Iorio A.F.; Estudio de la dinámica de nutrientes y metales en suelos de la cuenca Matanza – Riachuelo. Libro de Resúmenes del XXVI Congreso Argentino de la Ciencia del Suelo. May 15-18, 2018 - San Miguel de Tucumán-ARGENTINA.
- De Siervi, M.; Grandoli, I.; Tolaba Tugues, M. A. Diagnóstico de fertilidad en suelos bajo producción orgánica extensiva: Un caso de estudio. Libro de Resúmenes del XXVI Congreso Argentino de la Ciencia del Suelo. 15-18, 2018 - San Miguel de Tucumán-ARGENTINA.
- De Siervi, M.; Grillo, A. O.; Fabrizio de Iorio, A.R. Determinación de factores de enriquecimiento en Cr, Ni en aguas de escorrentía y sedimentos utilizando simulación de lluvia en suelos de una toposecuencia de la Cuenca del Río Matanza (Argentina). AA2017 III Congreso Nacional de Ciencia y Tecnología Ambiental Santa Fe, Argentina. July 31, 2017.
- Estimación de factores de enriquecimiento en Metales y Nutrientes en aguas de escorrentía y sedimentos utilizando simulación de lluvia en suelos de una toposecuencia de la Cuenca del Río Matanza (Argentina). Libro de Resúmenes del VIII Congreso de Ecología y Manejo de Ecosistemas Acuáticos Pampeanos. Nov. 2015. Museo Argentino de Ciencias Naturales. C.A.B.A.
- Ragay G., J. Iorio, I. Ciapparelli, M. De Siervi, M. J. Barros, A. Rendina . Respuesta del *Lolium multiflorum* a Cobre y Molibdeno, con fines a la nutrición del ganado bovino. II Congreso Internacional de Ciencia y Tecnología Ambiental y II Congreso Nacional de la Sociedad Argentina de Ciencia y Tecnología Ambiental (AA2015). Dec. 2015. F.C.E y N. U.B.A.
- De Siervi, M., Grandoli, I.; Georgiadis Rolandi, P.; Evaluación De Calidad De Suelos En Lotes Bajo Producción Agrícola Ganadera Orgánica Extensiva. XXIV Congreso Argentino de la Ciencia del Suelo – May 5, 2014- Bahía Blanca –

ARGENTINA.

- Grillo, A. O.; De Siervi, M.; Fabrizio de Iorio, A.R. Analisis de suelos, sedimentos y aguas de escorrentias pertenecientes a suelos de una toposecuencia de la cuenca del Arroyo Morales. 4to. CONGRESO DE CIENCIAS AMBIENTALES-COPIME 2013. October 9, 2013- Sede del COPIME - Del Carmen 776 - Ciudad Autónoma de Buenos Aires – ARGENTINA.
- de los Ríos, A.; Rendina, A.; Weigandt, C.; Arena M.; Clozza, M.; Bursztyn Fuentes, A.; De Siervi, M.; Barros M. J.; Iorio, A. Prácticas en el invernáculo: herramientas para enseñar y aprender química. XVI Reunión de Educadores en la Química. 4al 6 de Septiembre de 2013. Bahía Blanca (ARGENTINA) www.adeqra.com.ar, www.educacionenquimica.com.ar). “Awarded Papers in Scientific Meetings”, Vol. 20, nro 1 (2014).
- De Siervi M., Caputo C. A., Iorio A. F. de. Concentración Total de Cromo, Cadmio Y Niquel en Sedimentos de Escorrentia en Suelos de La Cuenca Matanza-Riachuelo. I Congreso Internacional De Ciencia Y Tecnología Ambiental, Y I Congreso Nacional De La Sociedad Argentina de Ciencia y Tecnología Ambiental. ARGENTINA Y AMBIENTE 2012. June 1st, 2012. Mar del Plata. ARGENTINA
- García A. R., Weigandt C., Pool S., Durán N., Caputo C., De Siervi M., Sadouet J. y Iorio A. F. de. Efecto De La Actividad Ganadera Intensiva En La Calidad Del Agua Subyacente: Un Caso De Estudio. I Congreso Internacional De Ciencia Y Tecnología Ambiental, Y I Congreso Nacional De La Sociedad Argentina De Ciencia Y Tecnología Ambiental. ARGENTINA Y AMBIENTE 2012. June 1st, 2012. Mar del Plata. ARGENTINA.
- Vazquez Pugliese, D., García A. R., De Siervi M., Castiglioni, M., Weigandt C., y Iorio A. F. de. Cantidad Y Calidad Química De Efluentes En Feedlot. I Congreso Internacional De Ciencia Y Tecnología Ambiental, Y I Congreso Nacional De La Sociedad Argentina De Ciencia Y Tecnología Ambiental. ARGENTINA Y AMBIENTE 2012. June 1st, 2012. Mar del Plata. ARGENTINA
- Georgiadis Rolandi, P, Arreghini, S; De Siervi, M; Serafini, R; Fabrizio de Iorio A. Caracterización De Suelos De Desmonte Del Sudeste Santiagueño. XIX Congreso Latinoamericano y XXIII Congreso Argentino de la Ciencia del Suelo. 2012. HOTEL PROVINCIAL. Mar del Plata. ARGENTINA.
- Ciapparelli, I. C.; De Siervi, M.; Maisonnave, R.; Weigandt, C.; Iorio, A.F. de; García, A. R. Respuesta del cultivo de trigo al agregado de estiércol como medida de utilización de residuos de feedlot. Congreso de la Unión Geográfica Internacional (UGI). Organizadores: UGI, IGM, FISA. Santiago, Chile. Nov. 2011.
- Ciapparelli, I. C., De Siervi, M.; Iorio, A.F. de; García, A. R. Utilización de residuos de feedlot en la producción extensiva de trigo. VI Congreso Iberoamericano de Física y Química Ambiental. Organizador: SIFYQA. Cancún, México. Apr. 25, 2011.
- De Siervi, M; Pool, S; Kandrachoff, M.L.; Vassallo, G.; Silva Busso, Adrian; Iorio A.F.de; Calidad de agua subterránea en el partido de Esteban Echeverría- Buenos Aires. Exposición Oral XXII Congreso Argentino de la Ciencia del Suelo- Rosario, Santa Fé. June, 2010.

D.3 Participation in Research Projects

ASSIGNMENT TO SCIENTIFIC-TECHNOLOGICAL PROMOTION ORGANIZATIONS

Category of researcher: IV (2004)

- PROJECT BID 1201 OC/AR PICT 15028. Contaminant dynamics and remediation guidelines applicable to the Matanza-Riachuelo River Basin. **Researcher**. Principal Researcher: A. F. de Iorio.
- UBACyT PROJECT G041 (2001-2003). Dynamics and bioavailability of pollutants in a river system of the province of Buenos Aires. Guidelines for its remediation. Integrated by: FAUBA, Faculty of Pharmacy and Biochemistry UBA, Museum of Natural Sciences B. Rivadavia; CONICET. **Researcher**. Director: Alicia F. de Iorio.
- PROJECT: UBACyT G051 (2004-2007). Surface water quality and contamination as a resource for animal drinking water in a representative basin of Pampa Ondulada. **Researcher**. Director: Celio I. Chagas
- PROJECT: UBACyT G033 (2004-2007). Contaminant dynamics and guidelines for the remediation of the Matanza-Riachuelo River Basin. **Research** Director: A.F. de Iorio.
- UBACyT PROJECT G055 (2008-2011). Influence of different land uses on soils, water and sediments of the Matanza-Riachuelo Basin and potential remediation measures. Principal Investigator: A.F. de Iorio.
- ANPCyT PROJECT (PICT 00-356). 2009-2012. Matanza-Riachuelo River Basin: Contaminant dynamics and guidelines for remediation. Integrated by: FAUBA; Fac. of Pharmacy and Biochemistry UBA; FCEyN UBA; Museo de Ciencias Naturales B. Rivadavia. **Researcher**
- UBACyT PROJECT code 20020100200207 (2011-2014) Manure management in intensive livestock production: storage lagoons and use of effluent as fertilizer. Principal Investigator: Ana García.
- UBACyT PROJECT 20020100100474. (2011-2014). Matanza Riachuelo Basin: Dynamics of pollutants in relation to different land uses. Potential remediation measures. **Researcher**. Director: A.F. de Iorio.

F. HUMAN RESOURCES TRAINING

F.1 Direction and co-direction of undergraduate thesis (to obtain the degree of Agronomist Engineer UBA).

- **Student: GEORGIADIS ROLANDI, Patricio Alexis**. Thesis Director: Dr. Silvana Arreghini, Co-Director: Marcelo De Siervi; Title: "Effect of land clearing on the properties of soils destined to agriculture in southeastern Santiago del Estero, Argentina." Thesis in progress.
- **Student: DALL'ASTA, Adrián**. Thesis Director: Marcelo De Siervi; Title: "Evaluation of liming needs in soils of plots under extensive organic livestock production". Thesis in writing.
- **Student: GRANDOLI, Ivan**. Thesis Director: Dr. Marcelo De Siervi. Title: "Characterization of some soil quality indicators in plots under extensive agricultural-livestock organic production (OP)". Exhibition Date: Dec 5, 2018.
- **Student: TOLABA TUGUES, María Ayelén** Thesis Director: Dr. Marcelo De Siervi Title: "USE OF SOIL QUALITY INDICATORS IN EXTENSIVE ORGANIC FARM PRODUCTION LOTS". Exhibition Date: May 5, 2018.
- **Student: GRILLO, Andrés Omar**. Thesis Director: M.Sc. Ing. Marcelo De Siervi. Title: "TRANSPORT OF NUTRIENTS IN SCORRENTIA WATERS FROM SOILS

OF A TOPOSEQUENCE OF THE MORALES RIVER BASIN". Exhibition Date: May 11, 2013.

- **Student: VAZQUEZ PUGLIESE, Daniela Estefanía.** Thesis Director: M.Sc. Ana Rosa Garcia Hoffmann. Co-Director: Eng. Marcelo De Siervi. Title: EFFLUENT QUALITY AND QUANTITY IN A FEEDLOT FATTENING SYSTEM Exhibition Date: May 13, 2013.
- **Student: CIAPPARELLI, Ileana Cecilia** Thesis Director: M.Sc. Ana Rosa Garcia Hoffmann. Co-director: Eng. Marcelo De Siervi. Title: Use of manure in wheat production as final destination of feedlot waste. Exhibition Date: Jul, 13, 2012.
- **Student: RAGAY, Gustavo Daniel** Thesis Director: Dr. Alicia R. Fabrizio de Iorio Co-Director: Eng. Marcelo De Siervi - Dr. Alicia Rendina. Title: Response of *Lolium multiflorum* to copper and molybdenum for cattle nutrition. Date of Exposition: Aug. 26, 2011.
- **Student: GODFRIEDT, Guillermo** Thesis Director: Eng. Celio Chagas Co-Director: Eng. Marcelo De Siervi. Title: 'Laminar Erosion In Undulating Pampa Soils With Contrasting Exchangeable Sodium Contents' Exhibition Date: Aug. 25, 2003
- **Student: PIAZZA, María Victoria** Thesis Director: Eng. Celio Chagas Co-Director: Eng. Marcelo De Siervi. Title: Runoff water quality in intensive and extensive cattle systems in the Arroyo del Tala watershed, Province of Buenos Aires. Exhibition Date: Apr. 24, 2006.

F.3 Foreign exchange students tutoring

- Student: Elisamara Caldeira do Nascimento; Thesis Director: Dr. Everaldo Zonta; Co-Director: Dr. Nelson Moura Brasil do Amaral Sobrinho; Thesis Title: Organic production in the municipality of Seropédica: evaluation of its sustainability and its impact on the physical, chemical and biological attributes of the soil. Doctoral thesis candidate; Universidade Federal Rural do Rio de Janeiro; Period: February to July 2014.
- Student: Talita de Santana Matos; Thesis Director: Dr. Nelson Moura Brasil do Amaral Sobrinho; Co-Director: Margarida Gorete, Dr. Everaldo Zonta; Thesis Title: Níveis De Contaminação Por Metais Pesados Em Hortaliças Folhosas E De Flores Produzidas No Estado Do Rio De Janeiro. Doctoral thesis candidate; Universidade Federal Rural do Rio de Janeiro; Period: February to July 2014.
- Student: Laurine Merle; Engineering student at the École Supérieure d'Agriculture - ANGERS - FRANCE. Internship Period. From May to September 2014.

F.4 Undergraduate Thesis Jury

- Student: Juan Pedro Sangiacomo. Thesis Director: Ing.Agr. Alejandro Maggi THESIS TITLE: "Effect of zoning on the adjustment of yield estimation models for soybean crop in the south of the province of Córdoba" Date of presentation: Feb. 22, 2021.
- Student: Lic. Micaela Yanina Forgo Lara. Thesis Director: Dr. Filipe Behrends Kraemer. THESIS TITLE: The position in the landscape as a conditioning factor of

edaphic structural stability in a watershed of the Partido de Azul " Exhibition date: 2019.

- Student: Agr. Eng. Alvaro Emilio Bresciano whose title is "Evaluation of the use of electroactivated water as a substitute for sodium hypochlorite in vegetable processing." 2018
- Student: Pedro Laudin .IMPACT OF EXCESSIVE LABOR ON THE GROWTH OF NATURAL REGENERATION OF PROSOPIS ALBA GRISEB IN SILVOPASTORILES SYSTEMS OF THE CHAQUEÑA SEMIARID REGION. 2018.
- Student: Francisco Tomás Drugueri. Director: Mario Castiglioni. EFFECT OF THE INCORPORATION OF COVER CROPS ON THE COMPOSITION OF DIFFERENT ORGANIC CARBON FRACTIONS AND THEIR RELATIONSHIP WITH STRUCTURAL STABILITY. 2018.
- Student: Jonathan Rey Jutel. Diagnosis of waste generation of the Rio Santiago shipyard canteen: strategies for its management. Director: Dr. Mercedes Subillaga, 2018.
- Student: Maria José Tesoro; Thesis Director: Dr. Célio Chagas, Co-Director: Filipe Berhends Kraemer, Consultant: Marta Paz; Exhibition date: 20/10/2014. Title: ``Effect of the effluents of a feed-lot on the biological quality of water in a watercourse of the Pampa Ondulada``.

I.- SUMMARY OF PROFESSIONAL AND/OR UNIVERSITY EXTENSION ACTIVITIES

- **University Volunteering Project** (2009 call) FAUBA "Building access to drinking water" A fundamental human right, in the Santa Isabel Neighborhood, Esteban Echeverría District, Province of Buenos Aires. (Co-director of the Project).
- **GAP auditor for suppliers of JUMBO company TÜv Rheinland working for ARGENCERT S.A.:** Companies. Santa Isabel Nursery, Taurizano, Manresa, Sueño Verde, Abrantes S.A.
- **Inspector of Certified Organic Productions** Company ARGENCERT S.A. (Ecocert) Argentina-EU Standards - GLOBALGAP-NOP- IFOAM - GMP - GAP. Inspections of establishments belonging to the following companies: Compañía de Tierras del Sud Argentino S.A. (Estancia Condor, Estancia Coronel, Estancia Pilcañeu-San Pedro, Estancia Montoso), Frigorífico Faimali S.A., (Río Gallegos Plant), Frigorífico Orenaike, Argensun S.A. (Linera-Flandria-Bs.As. Plant), Molinos Rivara S.A. (Alberti Plant - Bs.As), Empresa Constructora Delta S.A. (Cultivos del Ancasti-Catamarca), Calimboy S.A. (Ita Ibaté and Villa Mantero Plants, Estancia La invernada), Biolive S.A. (Estancia La Mariana and the La Mariana Farm). (Estancia La Mariana and El Píal - C. Dorrego- Buenos Aires), Providence S.A. (Estancia Santa Elena - Lin Calel - Tres Arroyos-Bs.As.), Bodega Bipro S.A. (San Juan), Pampa Store S.A., Killik Aike S.A. (Güer Aike -Santa Cruz), ESTANCIAS DE ALSINA S.A. EX/ EDWIN COMPANY SA (Baradero-Bs.As.), Huanqui S.A. (Rio Cuarto-Córdoba), Foundation Rachel & Pamela Schile (Estancia Las Dos Hermanas - Arias - Córdoba), Jose Ramón Santamarina - Purtierra S.A.(Estancia Santa Ana - Tandil - Bs.As.), Litoral Citrus S.A. (Las Tejas Plant - Concordia - E. Ríos), From April 2009 to June 2018.

- **Consultant producer of Aromatic and Medicinal Herbs** produced under certified organic management in Valle del Sol La Paz - Province of Córdoba. Crop monitoring, infrastructure design, irrigation systems, crop selection and management. Elaboration of selective clearing project presented and approved by the Native Forest Direction of the Córdoba Environment Agency, from November 2005 aMarch 2008.
- **Villa Talleres Neighborhood Environmental Promoter-** R. De Escalada-Lanús. Neighborhood Improvement Program. U.E.P.B.A. Instituto de la Vivienda BID 940. August 2004 to July 2007.

J.2 Languages

- English (speaking, reading, writing)
- Italian (speaks, reads, writes)