

Young, Brian Jonathan

Personal Information

Nationality: Argentine
Birth date: December 8, 1983
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Education

- PhD, School of Exact Sciences, National University of La Plata. Study of the disruption of the sexual development of *Cnesterodon decemmaculatus* (Pisces, Poeciliidae) by substances with estrogenic activity. Supervisors: Dr. Carriquiriborde P. and Dr. Somoza G. M. July 31, 2019.
- Bachelor's Degree in Environmental Sciences at the School of Agronomy, University of Buenos Aires. Development of a bioassay for the evaluation of endocrine disruption by analysing alterations in the development of the gonopodium of *Cnesterodon decemmaculatus* (Pisces, Poeciliidae). Graduated August 24, 2011. Supervisors: Dr. Carriquiriborde P. and Dr. Somoza G. M.

Work

- Waste Conversion Laboratory, Institute of Agricultural Microbiology and Zoology (IMYZA), National Institute of Agricultural Technology (INTA). May 9, 2006 - to present.
 - Research into Ecotoxicology. May 2006 - to present.
 - Member of the INTA Institutional Committee for the Care and Use of Experimental Animals. May 2017 - to present.
 - Responsible for the management and disposal of special and pathogenic waste of the Ecotoxicology Laboratory. March 2013 - to present.
- School of Agricultural Sciences, National University of Lomas de Zamora. March 1, 2020 - present.
 - Professor. Subject: Risky diseases for humans in the rural environment. Master degree in Zootechnics.
- School of Agronomy, University of Buenos Aires. April 5, 2009 - April 1, 2019.
 - Head of Practicals. Subject: Chemical Pollution and Toxicology.
- Favaloro University. July 1, 2011 - February 1, 2012
 - Teaching Assistant. Subject: Environmental Toxicology.

Skills and Expertise

Ecotoxicology, Effluents, Waste, Acute and Chronic Toxicity Testing, Environmental Fate of Substances, Endocrine Disrupting Chemicals, Xenoestrogens, Phytotoxicity, Fish, Water and Soil Pollution.

Awards

- Travel Grant, 12th SETAC Latin America Biennial Meeting. Santos, São Paulo, Brazil. September 7-10, 2017.
- Award for Best presentation at the Regulation, Management and Risk Assessment Session, SETAC Arg 6th Meeting: Lema Y, Roqueiro G, Gasulla J, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**. Córdoba, Argentina. October 11-14, 2016.

- Travel Grant, 5th Young Environmental Scientist Meeting (YES). Society of Environmental Toxicology and Chemistry North America (SETAC-NA). Gainesville, Florida, USA. February 28-March 2, 2016.
- Academic recognition awarded by the Rector of the University of Buenos Aires. Argentina. December 2012.
- FAUBA-Dow AgroSciences Award for Best Undergraduate Thesis of 2011, School of Agronomy, University of Buenos Aires. Argentina.

Participation in Research Projects

- Horizon 2020 Phy2Climate. "A global approach for recovery of arable land through improved phytoremediation coupled with advanced liquid biofuel production and climate friendly copper smelting process" (2021-2025).
- International Project United Kingdom-Argentina (BBSRC/NERC-CONICET): "Role of poultry litter in AMR: associated risks and potential mitigation strategies" (2019-2022).
- Horizon 2020 H2020-RUR-2019-01: "Innovative nutrient recovery from secondary sources - Production of high-added value fertilisers from animal manure: Fertimanure" (2019-2023).
- IDEA - SECITI SJ (National University of San Juan). "Native species of the Monte phytogeographic province as phytoremediator of Cd, Cu, Zn and As" (2019-2021).
- 2019-PD-E2-I039-002 (INTA). "Soil and water remediation and ecological restoration of degraded systems by agricultural, agro-industrial and extractive activities" (2019-2022).
- 2019-PD-I518 (INTA). "Study of the waste and effluent management, treatment and environmental impact on agricultural and agro-industrial systems for the agronomical valorization" (2019-2022).
- 2019-PD-I104 (INTA). "Studies of antimicrobial resistance generation and prophylactic and therapeutic alternatives development to use in production animals" (2019-2022).
- PI-UNAHUR 5-04 (National University of Hurlingham): "Valorization of processed poultry waste to reduce the environmental impact and the production of amendments under biosafety standards" (2018-2020).
- Technological Link Agreement: CVT AT INTA - Recupal (2017-2020).
- PROJOVI 2018-2019 (National University of San Juan). "Evaluation of the phytoremediation potential of soils with waste from a gold mine using native species from Monte in San Juan" (2018-2019).
- PNNAT 1128042 (National Environmental Management Programme, INTA): "Technology and strategies of waste and effluent management in agricultural and agro-industrial systems." (2013-2018).
- PICT 2014-1690 (Ministry of Science and Technology, Argentina): "Development of bioanalytical tools for the assessment and control of environmental pollution using fish as biosensors." (2015-2018).
- AEGA 221621 (Strategic Area of Environmental Management, INTA): "Methodologies and alternatives for waste treatment to minimize environmental problems in intensive production systems." (2009-2012).
- PNLEC 71041 (National Project of Dairy Production, INTA): "A study of the operational and environmental aspects and of animal welfare in intensive dairy farm systems." (2009-2012).
- PICT 2008-0221 (Ministry of Science and Technology, Argentina): "The integral management of Diptera pests in dairy farms." (2010-2013).
- ESPRO-8PFIP - Project COFECYT-MINCYT (Ministry of Science and Technology, Argentina): "Environmental management of waste from poultry production." (2010-2012)
- AEGA 1662 (Strategic Area of Environmental Management, INTA): "The development of technologies and strategies in order to decrease pollution by the integrated management of agricultural and agro-industrial waste." (2006-2009).
- PNLEC 1104 (National Project of Dairy Production, INTA): "Environmental management and infrastructure development of dairy farms." (2006-2009).

Role in journals

- Review Editor in Frontiers in Chemical Engineering, section Environmental Chemical Engineering. September 2019 - to present.

- Reviewer in Journals: Ecotoxicology and Environmental Safety, Waste Management, International Journal of Water Resources and Environmental Engineering, African Journal of Agricultural Research, Environmental Science and Pollution Research.

Supervisor of Undergraduate Theses and Internships

- Undergraduate Thesis Supervisor:
 - Bachelor's Degree in Environmental Sciences del Rivero Vargas N. "Toxic and genotoxic effects on *Allium cepa* exposed to contaminated soil from an abandoned gold mine in La Planta-Marayes (San Juan)." School of Agronomy, University of Buenos Aires. February 2019 to October 15, 2020.
 - Bachelor's Degree in Environmental Sciences Dours M. "Remediation of contaminated soil from an abandoned gold mine in La Planta-Marayes (San Juan) using soil improvers." School of Agronomy, University of Buenos Aires. December 2016 to June 25, 2018.
 - Bachelor's Degree in Environmental Sciences Milani PJ. "Ecotoxicological effects on soil organisms exposed to soils contaminated with residues from an abandoned gold mine in Marayes (San Juan, Argentina)." School of Agronomy, University of Buenos Aires. May 2015 to May 15, 2017.
 - Bachelor's Degree in Environmental Sciences Calabró MR. "Chronic toxicity of residues from an abandoned gold mine in Marayes (San Juan, Argentina) on lettuce (*Lactuca sativa*) and its correlation with bioavailability and bioaccumulation of Zn, Cu and Pb." School of Agronomy, University of Buenos Aires. March 2015 to March 15, 2017.
- Co-supervisor of PhD fellowship, Bachelor's Degree in Biology Belén Heredia. Phytoremediation of mining waste using native trees and bushes. National Scientific and Technical Research Council (CONICET) - National University of San Juan (UNSJ), Argentina. 2017-2022.
- Current Undergraduate Thesis Supervisor of Carbajal J from Agronomical Engineering of the School of Agronomy, University of Buenos Aires.
- Study Commission Tutor and Internship Supervisor of fourteen students from the Bachelor's Degree in Environmental Sciences, Agronomical Engineering, Chemical Engineering, and Bachelor's Degree in Bioreactor Manager. June 2012 - to present.

Publications

- **Young BJ**, Cristos D, Crespo D, Somoza GM, Carriquiriborde P, 2020. Effects of 17 α -ethinylestradiol on sex ratio, gonadal histology and perianal hyperpigmentation of *Cnesterodon decemmaculatus* (Pisces, Poeciliidae) during a full-lifecycle exposure. *Ecotox Environ Safe* 205, 111176.
- Carvalho Neves L, Beber de Souza J, de Souza Vidal CM, Herbert LT, de Souza KV, Geronazzo Martins K, **Young BJ**, 2020. Phytotoxicity indexes and removal of color, COD, phenols and ISA from pulp and paper mill wastewater post-treated by UV/H₂O₂ and photo-Fenton. *Ecotox Environ Safe* 202, 110939.
- Rizzo PF, Bres P, **Young BJ**, Zubillaga M, Riera N, Beily M, Argüello A, Crespo D, Sánchez A, Komilis D, 2020. Temporal variation of physico-chemical, microbiological and parasitological properties of poultry manure from two egg production systems. *J Mater Cycles Waste Manag* 22, 1140-1151.
- Bres P, Beily ME, **Young BJ**, Gasulla J, Butti M, Crespo D, Candal R, Komilis D, 2018. Performance of semi-continuous anaerobic co-digestion of poultry manure with fruit and vegetable waste and analysis of digestate quality: A bench scale study. *Waste Manage* 82, 276-284.
- **Young BJ**, López G, Cristos D, Crespo D, Somoza GM, Carriquiriborde P, 2016. Intersex and liver alterations induced by long-term sublethal exposure to 17 α -ethinylestradiol in adult males *Cnesterodon decemmaculatus* (Pisces, Poeciliidae). *Environ Toxicol Chem* 36, 1738-1745.
- **Young BJ**, Rizzo P, Riera N, Della Torre V, López V, Molina C, Fernández F, Crespo D, Barrera R, Komilis D, Sánchez A, 2016. Development of phytotoxicity indices and their correlation with ecotoxicological, stability and physicochemical parameters during passive composting of poultry manure. *Waste Manage* 54, 101-109.

- **Young BJ**, Riera N, Beily M, Bres P, Crespo D, Ronco A, 2012. Toxicity of the effluent from an anaerobic bioreactor treating cereal residues on *Lactuca sativa*. *Ecotox Environ Safe* 76, 182-186.

Presentations at International Meetings

- **Young BJ**, 2018. Fish as test organisms in ecotoxicology. 3rd Latin American meeting of Alternative Methods (COLAMA). Buenos Aires, Argentina. October 30-November 1.
- Somoza GM, Pérez MR, **Young BJ**, Strüssmann C, Carriquiriborde P, 2017. Effects of waterborne xenoestrogens on feminization of the testicular structure of two Neotropical fish. XX Brazilian Congress of Toxicology. Goiânia, Brazil. October 8-10.
- **Young BJ**, Calabró MR, Lema YA, Milani PJ, Roqueiro G, Gasulla J, Tapia R, Monetta P, Bargiela M, Crespo D, 2017. Sensitivity distribution profiles using organisms exposed to contaminated soil from an abandoned gold mine in La Planta-Marayes (Argentina). SETAC Latin America 12th Biennial Meeting. Santos, Brazil. September 7-10.
- Somoza GM, **Young BJ**, Carriquiriborde P, 2017. Implications of xenoestrogens on the physiology of the Neotropical fish, *Cnesterodon decemmaculatus*. Reproduction and sex differentiation. SETAC Latin America 12th Biennial Meeting. Santos, Brazil. September 7-10.
- Somoza GM, Perez M, **Young BJ**, Strüssmann C, Carriquiriborde P, 2017. Effects of 17 α -ethinylestradiol on the testicular structure of two neotropical fish species. SETAC Latin America 12th Biennial Meeting. Santos, Brazil. September 7-10.
- Calabró MR, Roqueiro G, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**, 2017. Chronic exposure of *Lactuca sativa* to a mine-contaminated soil from La Planta-Marayes (Argentina): I. Bioavailability of Zn, Cu and Pb. SETAC Latin America 12th Biennial Meeting. Santos, Brazil. September 7-10.
- Calabró MR, Roqueiro G, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**, 2017. Chronic exposure of *Lactuca sativa* to a mine-contaminated soil from La Planta-Marayes (Argentina): II. Toxicity and bioaccumulation of Zn, Cu and Pb. SETAC Latin America 12th Biennial Meeting. Santos, Brazil. September 7-10.
- **Young BJ**, Gasulla J, López GC, Crespo D, Somoza GM, Carriquiriborde P, 2016. Effects of ethinylestradiol on morphology, gonadal histology and sex ratio at different life stages of *Cnesterodon decemmaculatus* (Pisces). 5th Young Environmental Scientist Meeting (YES). Society of Environmental Toxicology and Chemistry North America (SETAC-NA). Gainesville, Florida, USA. February 28 - March 2.
- Gasulla J, Riera N, **Young BJ**, Crespo D, Carriquiriborde P, 2015. Genotoxicity of concentrate swine and cattle operation facilities effluents before and after geotextile filtration. SETAC Latin America 11th Biennial Meeting. Buenos Aires, Argentina. September 7-10.
- Martínez B, Roqueiro G, Monetta P, **Young BJ**, Martinelli M, Tapia R, 2015. Vegetal species composition, distribution and abundance of a region affected by gold mine environmental liabilities. SETAC Latin America 11th Biennial Meeting. Buenos Aires, Argentina. September 7-10.
- Calabró MR, Roqueiro G, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**, 2015. Effects of contaminated soils with residues of an abandoned gold mine in Marayes (San Juan, Argentina) on *Lactuca sativa* and *Eisenia fetida*. SETAC Latin America 11th Biennial Meeting. Buenos Aires, Argentina. September 7-10.
- Lema YA, Roqueiro G, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**, 2015. Elutriate toxicity of soil contaminated with residues from an abandoned gold mine in Marayes (San Juan, Argentina) on *Daphnia magna*. SETAC Latin America 11th Biennial Meeting. Buenos Aires, Argentina. September 7-10.
- Milani P, Roqueiro G, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**, 2015. Toxicity of elutriates obtained from soils contaminated with residues from an abandoned gold mine in Marayes (San Juan, Argentina) on *Lactuca sativa* L. and *Raphanus sativus*. SETAC Latin America 11th Biennial Meeting. Buenos Aires, Argentina. September 7-10.
- **Young BJ**, López VA, Molina CD, Fernández FE, Rizzo PF, Riera NI, Della Torre V, Crespo D, 2013. An ecotoxicological assessment of the passive aeration composting of chicken litter. III Congress of Environment and Renewable Energies - I International Meeting on Biomass. Villa María, Argentina. November 11-15.

- Della Torre V, Rizzo PF, Riera NI, **Young BJ**, Ferraina A, Mayoral L, Salas F, Crespo D, 2013. Physico-chemical and microbiological assessment of the passive aeration composting process of chicken litter. III Congress of Environment and Renewable Energies - I International Meeting on Biomass. Villa María, Argentina. November 11-15.
- Beily ME, **Young BJ**, Riera NI, Crespo D, 2013. Toxicity evaluation of effluents from confined swine on *Daphnia magna*, *Lactuca sativa* and *Raphanus sativus*. V Iberoamerican Symposium of Solid Waste Engineering. Mendoza, Argentina. October 15-16.
- **Young BJ**, López GC, Crespo D, Somoza GM, Carriquiriborde P, 2011. The effect of ethinylestradiol on gonopodium morphology and gonadal histology of *Cnesterodon decemmaculatus* (Pisces, Poeciliidae). Society of Environmental Toxicology and Chemistry North America (SETAC-NA). 32nd Annual Meeting. Boston, Massachusetts, USA. November 13-17.
- **Young BJ**, López GC, Crespo D, Somoza GM, Carriquiriborde P, 2011. Gonopodial morphology and gonadal histology in *Cnesterodon decemmaculatus* (Pisces, Poeciliidae) under chronic exposure to the xenoestrogen ethinylestradiol. Society of Environmental Toxicology and Chemistry Latin America (SETAC-LA). X Biannual Meeting. Cumaná, Venezuela. October 11-15.
- Romero ME, **Young BJ**, Rosso JJ, Rennella AM, 2010. Consequences of selective predation of juveniles of *Odontesthes bonariensis* on the seasonal dynamics of zooplankton of the littoral area of Pampean lagoons. IV Binational Meeting on Ecology - XXIV Argentine Meeting on Ecology (AsAE) - XVII Meeting of the Chilean Society of Ecology (SOCECOL). Buenos Aires, Argentina. August 8-13.

Presentations at Argentine Meetings

- **Young BJ**, 2020. Impact of organic waste in the environment: an approach from the Ecotoxicology. INTA-UNAHUR virtual meeting: An integral approach to the waste issue in agricultural activities. November 19.
- Del Rivero Vargas NV, Roqueiro G, Karlanian M, Tapia R, Monetta P, Crespo D, Gasulla J, **Young BJ**, 2019. Toxicity and genotoxicity induced in *Allium cepa* by exposure to mining residues from San Juan (Argentina). 7th Environmental Sciences Meeting (COPIME). Buenos Aires. October 9-11.
- **Young BJ**, 2018. Fish as test organisms in ecotoxicology. 6th Argentine meeting of Detergents, Surfactants and Related substances. Buenos Aires, Argentina. September 26-27.
- Dours M, **Young BJ**, Rearte A, Romaniuk R, Roqueiro G, Crespo D, Tapia R, Rizzo P, 2018a. Remediation of contaminated soil with residues from an abandoned gold mine using soil improvers: Part I. Monitoring of microbial respiration and physico-chemical characterisation. SETAC Arg 7th Meeting. San Luis, Argentina. October 16-19.
- Dours M, Rizzo P, Rearte A, Romaniuk R, Roqueiro G, Crespo D, Tapia R, **Young BJ**, 2018b. Remediation of contaminated soil with residues from an abandoned gold mine using soil improvers: Part II. Bioavailability of metals and toxicity on *Allium cepa* bulbs. SETAC Arg 7th meeting. San Luis, Argentina. October 16-19.
- Dours M, Rizzo P, Rearte A, Romaniuk R, Roqueiro G, Crespo D, Tapia R, **Young BJ**, 2018c. Remediation of contaminated soil with residues from an abandoned gold mine using soil improvers: Part III. Genotoxicity on *Allium cepa* bulbs. SETAC Arg 7th meeting. San Luis, Argentina. October 16-19.
- Heredia B, Tapia R, **Young BJ**, Roqueiro G, 2018. Native plants from the Monte region as potential hyperaccumulators of metals in soils contaminated with mining waste. SETAC Arg 7th meeting. San Luis, Argentina. October 16-19.
- Rizzo PF, Prieto MF, **Young BJ**, Bres PA, Barbaro L, Crespo DE, 2018. Feasibility of the use of treated solid waste using an integral quality parameter analysis. 2nd meeting of agricultural and agro-industrial waste. II Symposium of Agricultural and Agroindustrial Waste of NOA and Cuyo, Argentina. San Juan, Argentina. October 3-5.
- Bres P, Prieto M, **Young BJ**, Rizzo PF, Karlanian M, Crespo D, 2018. Analysis of digestion products originating in anaerobic digestion plants of different raw materials. II Symposium of Agricultural and Agroindustrial Waste of NOA and Cuyo, Argentina. San Juan, Argentina. October 3-5.

- **Young BJ**, 2017. Fish as test organisms in ecotoxicology. 1st Argentine meeting of Alternative Methods for the use of Experimental Animals. Buenos Aires, Argentina. October 17.
- Magri L, Rizzo P, Pegoraro V, **Young BJ**, Orden L, Montico S, Bonel B, Castro D, 2017. Evaluation of the composting process for the treatment of swine waste. 2nd PNNAT – INTA Scientific Meeting. Towards a Peri-Urban Consensus. Córdoba, Argentina. September 12-14.
- Rizzo P, **Young BJ**, Riera N, Prieto M, Martínez L, Barbaro L, Karlanian M, Zubillaga M, Crespo D, 2017. Effect of the application of poultry manure, compost and digestate on mineralization in agricultural soil. 2nd PNNAT – INTA Scientific Meeting. Towards a Peri-Urban Consensus. Córdoba, Argentina. September 12-14.
- Lema YA, Roqueiro G, Gasulla J, Tapia R, Monetta P, Crespo D, Bargiela M, **Young BJ**, 2016. Toxicity of elutriates from soil contaminated with residues from an abandoned gold mine in Marayes (San Juan, Argentina) using a battery of bioassays on aquatic organisms. SETAC Arg 6th Meeting. Córdoba, Argentina. October 11-14.
- Crespo D, **Young BJ**, 2016. Technologies for treatment, recycling and valorization of agricultural and agro industrial waste. 1st PNNAT – INTA Scientific Meeting. Buenos Aires, Argentina. August 30 - September 1.
- Rizzo P, **Young BJ**, Bres P, Riera N, Martínez L, Della Torre V, Barbaro L, Salleses L, Beily M, Ratto S, Zubillaga M, Crespo D, 2016. Evaluation of the application of soil improvers using poultry manure on a standard soil/plant. 1st PNNAT – INTA Scientific Meeting. Buenos Aires, Argentina. August 30 - September 1.
- Martinelli M, Andrieu J, Scherbosky R, Tapia R, Carmona J, Scaglia J, Martinez B, **Young BJ**, Monetta P, Roqueiro G, 2016. Vegetation, water and soil in the San Juan Monte region: contributions towards a discussion on the arid-oasis from an agroecological perspective. 1st PNNAT – INTA Scientific Meeting. Buenos Aires, Argentina. August 30 - September 1.
- Fain Binda V, Irusta W, **Young BJ**, Di Masso RJ, 2015. Composting model of poultry incubation waste. XVI Technical and Scientific Communication Meeting – III Latin American Meeting. School of Veterinary Sciences, UNR, Santa Fe. September 1.
- **Young BJ**, Gasulla J, López GC, Crespo D, Somoza GM, Carriquiriborde P, 2014. Ethinylestradiol alters sex relationship, gonadal histology and external morphology in *Cnesterodon decemmaculatus* (Pisces) juveniles. SETAC Arg 5th Meeting. Neuquén, Argentina. October 22-25.
- Gasulla J, **Young BJ**, Prieto M, Vitón M, Bres P, Crespo D, 2014. Ecotoxicological monitoring of effluents from a cattle market. SETAC Arg 5th Meeting. Neuquén, Argentina. October 22-25.
- **Young BJ**, Crespo, D., 2014. The environmental problem of waste generated by agricultural activities and risk assessment. Meeting of the Council of Agro-industrial and Agricultural professionals (CPIA). Buenos Aires, Argentina. March 25.
- **Young BJ**, López GC, Crespo D, Somoza GM, Carriquiriborde P, 2012. Effect of 5 α -dihydrotestosterone (DHT) on the morphology of the anal fin and gonadal histology of female *Cnesterodon decemmaculatus* (Pisces, Poeciliidae) chronically exposed. SETAC Arg 4th Meeting. Buenos Aires, Argentina. October 16-19.
- Riera N, Butti M, Zarate N, Weigandt C, **Young BJ**, Iglesias L, Crespo D, 2010. Evaluation of the composting process of poultry waste. SETAC Arg 3rd Meeting. Santa Fe, Argentina. May 12-14.
- Riera N, **Young BJ**, Butti M, Weigandt C, Zarate N, Della Torre V, Crespo D, 2010. Evaluation of the toxicity of mature compost on the earthworm *Eisenia foetida*. SETAC Arg 3rd Meeting. Santa Fe, Argentina. May 12-14.
- Riera N, **Young BJ**, Della Torre V, Crespo D, 2010. Ecotoxicological evaluation of lixiviates generated by mature compost. SETAC Arg 3rd Meeting. Santa Fe, Argentina. May 12-14.
- **Young BJ**, Riera N, Cuatrín A, Beily E, Charlón V, Crespo D, 2009. Phytotoxicity of underground water from intensive dairy production systems. X Natural Sciences Meeting of the Litoral – II Argentine Natural Sciences Meeting. Santa Fe, Argentina. October 18-21.
- Bres P, Crespo D, Giampaoli O, Beily E, **Young BJ**, 2008. Anaerobic digestion (Part III) Determination of physico-chemical parameters for the control of the anaerobic digestion

process and its effluents. SETAC Arg 2nd Meeting. Mar del Plata, Argentina. November 26-28.

- **Young BJ**, Crespo D, Riera N, Beily E, Bres P, 2008. Anaerobic digestion (Part IV) Lethal and sublethal effects of effluents from a waste biodigester on *Lactuca sativa*. SETAC Arg 2nd Meeting. Mar del Plata, Argentina. November 26-28, 2008.

Scientific Memberships

- Member of the Society of Environmental Toxicology and Chemistry (SETAC). Student representative on the SETAC Latin America Board of Directors (2017-2019), elected by vote. Date: 2013-2019.
- Argentine Network of Alternative Methods for the Use of Experimental Animals (RAMA). Member of the Scientific Committee of the III Latin American Meeting of Alternative Methods (COLAMA) 2018.

Scientific Communication and Dissemination

- Gisande M, 2020. They verify the effect of the drug of contraceptive pills on the sexual characteristics of a native fish. News article based on an interview of **Young BJ** and Carriquiriborde P. CONICET News. September 16. (Available at https://laplata.conicet.gov.ar/comprueban-el-efecto-de-la-droga-de-las-pildoras-anticceptivas-sobre-los-caracteres-sexuales-de-un-pez-nativo/?fbclid=IwAR2qug7moEJch7TMxKVyl28_O8YxP7w3eiNvPfp2cWpErYDRjCH7fbrbK70).
- Franco M, **Young BJ**, 2018. Students of SETAC North America and Latin America Expand the Knowledge of the Society in Central America. *SETAC Globe* Vol. 19 Issue 11, 1 November. (Available at <https://globe.setac.org/students-central-america/?fbclid=IwAR2xmeXAODhnZT-y5aoKp1VWBMPry2tCxIFggBdVgN0mvz1OTa8HhGQkylY>).
- Agritotal, 2018. The remediation of toxic soils with native forest species is been evaluated. News article based on an interview of **Young BJ** and Dours M. Agritotal digital magazine. 18 October. (Available at <http://www.agritotal.com/nota/36855-evaluan-remediar-suelos-toxicos-con-especies-del-monte-nativo/>).
- MacLeod A, Heye K, **Young BJ**, Gissi F, Baskaran S, Graves S, 2018. Global Student Guide for SETAC Annual Meetings. *SETAC Globe* Vol. 19 Issue 10, 4 October. (Available at https://globe.setac.org/global-student-guide-for-setac-meetings/?fbclid=IwAR2pz4KjtnALzZopuXCyRyuz0_QHa_VNGsmwEpY7cKy0AqiHu12FvO8zqeak).
- Roset P, 2018. Toxic soils: First steps towards your recovery. News article based on an interview of **Young BJ**, Dours M and Rizzo PF. "Sobre la Tierra", Scientific and Technological Outreach Service on Agronomy and Environment - School of Agronomy, University of Buenos Aires. 3 October. (Available at <http://sobrelatierra.agro.uba.ar/suelos-toxicos-primeros-pasos-hacia-su-recuperacion/?fbclid=IwAR3VVOM7jXjBuMAqEEaIF8mcPPpf8iS3ydQW5eB7hLuSOrf4gDqZUs7rqho>).
- "Sobre la tierra" radio program, University of Buenos Aires Radio (FM 87.9). Phytoextraction and remediation of soils contaminated with heavy metals. Interview of De Salazar D, Dours M and **Young BJ**. September 13, 2018. (Available at <http://sobrelatierra.agro.uba.ar/fitoextraccion-y-remediacion-de-suelos-contaminados-con-metales-pesados>).
- Pampero TV, 2018. How to reduce the toxicity of effluents and solid waste? Interview of Ottaviani MN to **Young BJ**. May 28. (Available at <https://inta.gob.ar/videos/%C2%BFcomo-aplacar-la-toxicidad-de-efluentes-y-residuos-solidos>).
- **Young BJ**, Medero L, 2018. Forward the remediation of environmental issues of the mining activity. ConCiencia Ambiental newsletter, INTA. February 28. (Available at <https://concienciaambiental.org/2018/02/28/hacia-la-remediacion-de-pasivos-ambientales-de-la-actividad-minera/>).

- Interview of **Young BJ** for the television program Agrotechnology by Valles V. Episode 33, Chacra TV. January 18, 2018. (Available at <https://www.youtube.com/watch?v=WySOvMFHh04&t=8s>)
- INTA & SAF, 2017. Preliminary Technical Report: "Analysis of the Socio-Environmental situation of the area of La Planta, Cauce Department, San Juan Province, Argentina." March 2017.
- Luna, Nadia. 2016. The footprint of the mining industry. News article based on an interview of **Young BJ**. TSS Agency (Sur Sur Technology) - National University of San Martín. (Available at <http://www.unsam.edu.ar/tss/la-huella-de-la-mineria>).
- Tamashiro, Sebastián. 2016. A town exposed to two centuries of mining residues. News article based on an interview of **Young BJ**. "Sobre la Tierra", Scientific and Technological Outreach Service on Agronomy and Environment - School of Agronomy, University of Buenos Aires. (Available at <http://sobrelatierra.agro.uba.ar/un-pueblo-expuesto-a-dos-siglos-de-residuos-mineros>).
- Portugal, Mario. 2016. Radio interview of **Young BJ** for the news article "A town exposed to two centuries of mining residues." "Planeta Azul" Program, FM Milenium. (Available at <https://www.planetaazul.com.ar/convivir-con-residuos-mineros>).
- **Young BJ**, Gasulla J, Della Torre V, 2015. Environmental effects of an abandoned mine and of livestock production effluents. (Available at <http://inta.gob.ar/noticias/efectos-ambientales-de-una-explotacion-minera-abandonada-y-de-efluentes-ganaderos>).
- Crespo DC, **Young BJ**, Gasulla J, 2015. Organic waste: an environmental problem and a potential risk. *Revista Agropost* 136, 16-17.
- **Young BJ**, Gasulla J, La Fuente L, 2013. Waste contains toxic substances as well as nutrients. Newsletter of the Agricultural Microbiology and Zoology Institute, INTA. (Available at <http://inta.gob.ar/noticias/los-residuos-contienen-toxicos-ademas-de-nutrientes>).

Teaching Background

- Theory and practical lessons in Pollution Chemistry and Toxicology. School of Agronomy, University of Buenos Aires. A total of 48 hours per semester since March 2011 to July 2019.
- Seminar on ecotoxicology and waste pollution in a biological pest control framework. Teaching assistant. Toxicology specialization for physicians, School of Medicine, University of Buenos Aires. Hospital Posadas Academic Unit. 26 November 2018, 7 November 2016 and 27 May 2013.
- Seminary "Environmental problems of waste generated by agricultural activities and their risk assessment." Online. Meeting of the Council of Agro-industrial and Agricultural professionals (CPIA). Buenos Aires, Argentina. March 25, 2014.
- Assistant for practical classes in Aquatic Ecology. Animal Production Department, School of Agronomy, University of Buenos Aires, From June 2009 to January 2013.
- Seminar on Ecotoxicology for students from a technical school in Ituzaingó. June 2013. <http://inta.gob.ar/noticias/cada-cosa-en-su-lugar/>
- Theory and practical lessons in Environmental Toxicology. Biological Sciences Department, Favaloro University. From July 2011 to February 2012.
- International Course: "Obtaining soil improvers safe for the environment." Speakers: **Young BJ** and Riera N. Institute of Agricultural Microbiology and Zoology (IMYZA), National Institute of Agricultural Technology (INTA). November 5, 2009.

Courses

- Aspects of statistics and experimental design for members of INTA Institutional Committee for the Care and Use of Experimental Animals. 10 h. INTA. October 20-23, 2020.
- Stats from scratch: an introduction to data manipulation and analysis in R. Coding Club. July – December, 2020
- Geographic Information Systems. 25 h. National Commission of Spatial Activities (CONAE). Buenos Aires, Argentina. March 30 - June 1, 2020.
- Big data. 5 h. National Institute of Public Administration. Buenos Aires, Argentina. April 9, 2020.

- Training on gender and violence against women. 8 h. National Institute of Public Administration. Buenos Aires, Argentina. March 29, 2020.
- Microplastics. Dr. B. Quinn. National University of San Luis, SETAC Arg 7th Meeting. San Luis, Argentina. October 2018.
- R Fundamentals for Scientists. Lic. D'Andrea. National University of San Luis, SETAC Arg 7th Meeting. San Luis, Argentina. October 2018.
- Cellular transport and metabolism of pharmaceuticals: experimental models and their clinical applications. 40 h. School of Veterinary Sciences (UNCPBA). Tandil, Argentina. June 2018.
- The endocrine system: Global perspectives on testing methods and evaluation of endocrine activity. Society of Environmental Toxicology and Chemistry. 12th SETAC Latin America Biennial Meeting. Santos, Brazil. September 7-10, 2017.
- Science, Technology and Society. Contributions towards a Latin American perspective. Dr. Andrini, Carrera and Bilmes and Prof. Liaudat. 60 h. School of Exact Sciences, National University of La Plata. April 10 - August 30, 2017.
- Bioethics in Animal Research. Dr. Rebuelto. 24 h. School of Veterinary Sciences, University of Buenos Aires. July 6-8, 2017.
- Risk assessment of metal-contaminated sediments. SETAC Arg 6th Meeting. Córdoba, Argentina. October 11-14.
- Atomic absorption spectrophotometry by graphite furnace and guidelines for equipment management and methodological development. INTA and PerkinElmer. 24 h. Manfredi, Argentina. September 13-15, 2016.
- Flow cytometry and confocal microscopy. University of Florida. Gainesville, FL, USA. March 3, 2016.
- Utilizing risk assessment and causal analysis to evaluate health and environmental implications of oil and gas operations. SETAC Arg 5th Meeting. Neuquén, Argentina. October 22-25.
- Writing scientific texts in English. Module II: Style, coherence, consistency and flow. 30 h. Buenos Aires, Argentina. September 22-26, 2014.
- Writing scientific texts in English. Module I: Grammar. 30 h. Buenos Aires, Argentina. September 15-19, 2014.
- Histology techniques. 48 h. Dr. Somoza GM, Lic. Chalde T and Tec. López C. IIB-INTECH/CONICET/UNSAM. Chascomús, Argentina. February 24-28, 2014.
- Theoretical and practical course on the use of the Atomic Absorption Spectrophotometer Perkin-Elmer A700 with auto sampler. 8 h. Dr. Carrquiriborde P. Agricultural Microbiology and Zoology Institute, INTA, Argentina. August 8, 2013.
- Development of methods for high efficiency liquid chromatography (HPLC). Optimization strategies. 50 h. Dr. Castells C, Romero L and Reta M. National University of La Plata. La Plata, Argentina. March 2013.
- Methods for Ecological Risk Assessment of Contaminants of Emerging Concern. 6 h. Dr. Metcalfe C. Argentine Business University (UADE). Buenos Aires, Argentina. October 16, 2012.
- Reference material and inter-laboratory comparisons. Requirements for users and suppliers. 16 h. Processes and Quality Management, INTA. Buenos Aires, Argentina. September 25-26, 2012.
- Endocrine disruptors: Basic concepts and working tools. 16 h. Dr. Somoza GM, Trudeau V, Carrquiriborde P and Navarro Martin L. National University of Mar del Plata. Mar del Plata, Argentina. April 19-20, 2012.
- PEDECIBA postgraduate course "Endocrinology of reproduction and sex differentiation in fish." 80 h. Dr. Vizziano D and Somoza GM. School of Sciences, University of the Republic. Montevideo, Uruguay. November 30 - December 11, 2009.
- Evolutionary ecology of animal-plant interactions. 6 h. Dr. Ordano M. National Institute of Limnology. Santa Fe, Argentina. October 18-21, 2009.
- Ecotoxicology and Risk Assessment. 144 h. Dr. Ronco A and Natale G. School of Exact Sciences, National University of La Plata. La Plata, Argentina. August 20 - December 23, 2008.
- Ecotoxicology - Industrial Effluents. 7 h. Dr. Jennings P and Herkovits J. SETAC. SETAC Arg 2nd Meeting. Mar del Plata, Argentina. November 25, 2008.
- Training in the use of MICROTOX equipment and software. 8 h. Dr. Planes E. National Institute of Industrial Technology (INTI). Castelar, Argentina. August 8, 2008.

- Advanced use of the software for Atomic Absorption AAWINLAB32. 16 h. Lic. Alzabet H. Organized by Perkin Elmer Argentina. Buenos Aires, Argentina. July 3-4, 2008.
- Atomic Absorption Spectrometry: Generation of hydrides and cold vapour. 8 h. Lic. Alzabet H. University Language Centre. Buenos Aires, Argentina. July 2, 2008.
- Atomic Absorption Spectrometry: Graphite furnace. 16 h. Lic. Alzabet H. University Language Centre. Buenos Aires, Argentina. June 26-27, 2008.
- Atomic Absorption Spectrometry: Flame Technique. 16 h. Lic. Alzabet H. University Language Centre. Buenos Aires, Argentina. June 5-6, 2008.
- Urban Ecology and Environmental Risk Perception of Pollutants. 6 h. Dr. Wais de Bagden I. Scientific and Technical Educational Outreach Programme on Environmental Issues. Buenos Aires, Argentina. March 2007.
- Toxicological Chemistry - Achievements and Limitations in Judicial Expertise. 12 h. Dr. Colángelo C. Argentine Chemistry Foundation. Morón, Argentina. July 2006.