

Enrica Uggetti Curriculum vitae

PERSONAL DETAILS

Date of Birth: 26 February 1982
Place of Birth: Ivrea (TO), Italy
Nationality: Italian
Sex: Female



PROFESSIONAL CONTACT DETAILS

GEMMA- Group of Environmental Engineering and Microbiology
Universitat Politècnica de Catalunya BarcelonaTech
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EXPERIENCE

Dec 13-now **Researcher**

GEMMA - Group of Environmental Engineering and Microbiology

Projects:

INCOVER Innovative Eco-Technologies for Resource Recovery from Wastewater (INCOVER), financed by H2020. 2016-2019.

NatureWat – Action Group Nature-based technologies for innovation in water management, financed by European Innovation Partnership on Water (EIP-Water) 2015–2018.

FOTOBIOGAS Biogas production from microalgae-bacteria consortium treating wastewater in closed photobioreactors, financed by the Spanish Ministry of Science and Innovation, coordinated by the Environmental Engineering Division (UPC). 2015-2017.

ARBI Autonomous Reed Bed Installations EU FP7-ENV. 2013-2015.

DIPROBIO Production and digestion of algal biomass grown in wastewater, financed by the Spanish Ministry of Science and Innovation, coordinated by the Environmental Engineering Division (UPC). 2013-2016.

SWINGS Safeguarding Water Resources in India with Green and Sustainable Technologies, financed by EU FP7-ENV. 2012-2015.

ENERWET Application of microbial fuel cells in constructed wetlands to optimize treatment efficiency, generate electricity and reduce greenhouse gas emissions, financed by the Spanish Ministry of Science and Innovation, coordinated by the Environmental Engineering Division (UPC). 2011-2013.

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Topics: low cost technologies for wastewater and sludge treatment, energy generation, microalgae production, anaerobic digestion, biogas.

2011-2013 **Researcher**

INRA – LBE Laboratoire de Biotechnologie de l'Environnement. Narbonne, France.

Projects:

Symbiose: Study and optimization of coupling microalgae and anaerobic bacteria for energy production from biomass and organic waste, financed by the French National Research, coordinated by the Laboratory of Environmental Biotechnology (INRA-LBE). 2008-2011.

Topics: microalgae production for energy generation, anaerobic digestion, biogas.

2007-2011 **PhD in Civil Engineering.** Universitat Politècnica de Catalunya BarcelonaTech. Barcelona, Spain.

Thesis: Sewage Sludge Treatment in Constructed Wetlands: Technical, economic and environmental aspects applied to small communities of the Mediterranean Region.

Topics: water quality, wastewater and sludge treatment, constructed wetlands, life cycle assessment.

Projects:

Bioalgas: Biogas production from algae biomass grown in high rate ponds for wastewater treatment, financed by the Spanish Ministry of Science and Innovation, coordinated by the Environmental Engineering Division (UPC). 2011-2013.

Design criteria of constructed wetlands' new configurations for the removal of conventional and emerging pollutant in wastewater, financed by the Spanish Ministry of Science and Innovation, coordinated by the Environmental Engineering Division (UPC). 2008-2011.

Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria, financed by the Spanish Environmental Ministry, coordinated by the Environmental Engineering Division (UPC). 2008-2011.

Research program for the development of sustainable biomass-based energy systems in rural areas of Andean Countries, financed by the Centre for Development Cooperation (CCD-UPC), coordinated by the GRECDH (UPC). 2008-2009.

Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria, financed by the Spanish Environmental Ministry, coordinated by the Environmental Engineering Division (UPC). 2007-2008.

Design criteria of constructed wetlands' new configurations for the removal of conventional and emerging pollutant in wastewater, financed by the Spanish Ministry of Science and Innovation, coordinated by the Environmental Engineering Division (UPC). 2005-2008.

2010 **Scholarship** AGAUR. 18 weeks at Biogeochemistry Research Group - University of Eastern Finland, Kuopio (Finland) and 4 weeks at Plant Biology Research Group - University of Aarhus, Aarhus (Denmark).

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EDUCATION

- 2007-2011 **PhD in Civil Engineering.** Universitat Politècnica de Catalunya BarcelonaTech. Barcelona, Spain.
Thesis: Sewage Sludge Treatment in Constructed Wetlands: Technical, economic and environmental aspects applied to small communities of the Mediterranean Region
- 2005-2007 **MSc in Environmental Engineering.** Politecnico di Torino. Torino, Italy.
MSc thesis "Study of clogging phenomena in subsurface horizontal flow constructed wetlands" Environmental Engineering Division, Technical University of Catalonia (UPC). Barcelona, Spain.
- 2005-2006 **Erasmus Program.** Ecole Polytechnique Fédérale Lausanne (EPFL). Lausanne, Switzerland.
- 2001-2005 **BSc in Environmental Engineering.** Politecnico di Torino. Turin, Italy.
BSc thesis: Constructed wetlands for wastewater treatment

LANGUAGE SKILLS (B=Basic, I=Intermediate, P=Proficient)

	Speaking	Reading	Writing
English	I	P	I
French	I	P	I
Spanish	P	P	P
Catalan	I	I	I
Italian	Native		

PUBLICATIONS IN REFEREED JOURNALS

- 2017 Arias, D., García, J., **Uggetti, E.** (2017) Production of bioplastics by cyanobacteria grown in wastewater: a review. *Water Research*, submitted.
- Passos, F., Gutiérrez, R., **Uggetti, E.**, Garfí, M., García, J., Ferrer, I. (2017) Towards energy neutral microalgae-based wastewater treatment plants. *Environmental Science and Technology*, submitted.
- Arias, D., **Uggetti, E.**, García-Galán, M.J., García, J., (2017) Cultivation and selection of cyanobacteria in a closed photobioreactor used for secondary effluent and digestate treatment. *Science of the Total Environment*, 587-588, 157-167.
- 2016 Gutierrez, R., Ferrer, I., González-Molina, A., García, J., **Uggetti, E.** (2016). Microalgae recycling improves biomass recovery from wastewater treatment high rate algal ponds. *Water Research* 106, 539-549.
- Uggetti, E.**, Passos, F., Solé, M., Garfí, M., Ferrer, I. (2016) Recent achievements in the production of biogas from microalgae. *Waste and biomass valorization* 8 (1), 129-139.
- Hughes-Riley, T., Newton, M., Hawes, P., García, J., **Uggetti, E.**, Puigagut, J., Morris, R. (2016) A method for online monitoring of clogging in porous media using magnetic resonance: an application to constructed wetlands. *Environmental Science and Technology*, submitted.
- Uggetti, E.**, Puigagut, J. (2016) Photosynthetic membrane-less microbial fuel cells to enhance microalgal biomass concentration. *Bioresource Technology* 218, 1016-1020.
- Gutiérrez, R., Ferrer, I., **Uggetti, E.**, Arnabat, C., Salvadó, H., García, J. (2016) Settling velocity distribution of microalgal biomass from urban wastewater high rate algal ponds, *Algal Research* 16, 409-417.

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- Uggetti, E.**, Hughes-Riley, T., Morris, R., Newton, M., Trabi, C., Hawes, P., Puigagut, J., García, J. (2016) Intermittent aeration to improve wastewater treatment efficiency in pilot-scale constructed wetland. *Science of the Total Environment* 559, 212-217.
- Matamoros, V., **Uggetti, E.**, García, J., Bayona, J.M. (2016) Assessment of the mechanisms involved in the removal of emerging contaminants by microalgae from wastewater: a laboratory scale study. *Journal of Hazardous Materials* 310, 197-205.
- 2015 Solimeno, A., Samsó, R., **Uggetti, E.**, Sialve, B., Steyer, J.P., Gabarró, A., García, J. (2015) New mechanistic model to simulate microalgae growth. *Algal Research* 12, 350-358.
- Labella A., Caniani D., Hughes-Riley, T, Morris, R.H., Newton, M.I., Hawes, P., Puigagut, J., García, J., **Uggetti, E.** (2015) Assessing the economic suitability of aeration and the influence of bed heating on constructed wetlands treatment efficiency and life-span. *Ecological Engineering* 83,184-190.
- Gutiérrez, R., Passos, F., **Uggetti, E.**, Ferrer I., García J. (2015) Harvesting microalgae from wastewater treatment systems with natural flocculants: Effect on biomass settling and biogas production. *Algal Research* 9, 204-211.
- Gutiérrez, R., Ferrer, I., García, J., **Uggetti, E.** (2015) Influence of starch on microalgal biomass recovery, settleability and biogas production. *Bioresource Technology* 185, 341-345.
- 2014 Passos, F., **Uggetti, E.**, Carrère, H., Ferrer, I. Pretreatment of microalgae to improve biogas production: a review. (2014) *Bioresource Technology*, 172, 403-412.
- Uggetti, E.**, Sialve, B., Latrille, E., Steyer, J.P. Anaerobic digestate as substrate for microalgae culture: the role of ammonium concentration on the microalgae productivity. (2014) *Bioresource Technology*, 152, 437-443.
- Uggetti, E.**, Sialve, B., Trably, E., Steyer, J.P. Integrating microalgae production with anaerobic digestion: a biorefinery approach. (2014) *Biofuels, Bioproducts & Biorefining*, 8 (4), 516-529.
- Hughes-Riley, T., Newton, M.I., Webber, J.B.W., Puigagut, J., **Uggetti, E.**, Garcia, J., Morris, R.H. (2014) Advances in clog state monitoring for use in automated reed bed installations, *Lakes reservoirs and ponds*, 8 (1), 52-65.
- 2012 **Uggetti, E.**, Ferrer, I., Argilaga, A., García, J. (2012) Dewatering model for optimal operation of sludge treatment wetlands, *Water Research*, 46 (2), 335-344.
- Uggetti, E.**, García, J., Lind, S.E., Martikainen, P.J., Ferrer, I. (2012) Quantification of greenhouse gas emissions from sludge treatment wetlands, *Water Research* 46 (6), 1755-1762.
- Uggetti, E.**, Ferrer, I., Carretero, J., García J. (2012). Performance of sludge treatment wetlands using different plant species and porous media. *Journal of Hazardous Materials* 217-218, 263-270.
- Uggetti, E.**, Ferrer, I., Arias, C., Brix, H., García, J. (2012). Carbon footprint of sludge treatment reed beds. *Ecological Engineering* 44, 298-302.
- Uggetti, E.**, García, J., Nielsen, S., Arias, C., Brix, H., Ferrer, I. (2012) Characteristics of biosolids from sludge treatment wetlands for agricultural reuse. *Ecological Engineering* 40, 210-216.
- 2011 **Uggetti, E.**, Ferrer, I., Molist. J., García, J. (2011) Technical, economic and environmental assessment of sludge treatment wetlands, *Water Research*, 45 (2), 573-582.
- Ferrer, I., Garfi, M., **Uggetti, E.**, Ferrer, L., Carderon, A., Velo, E. (2011) Biogas production in low-cost digesters at the Peruvian Andes. *Biomass and Bioenergy* 35 (5), 1668-1674.

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- 2010 **Uggetti, E.**, Ferrer, I., Llorens, E., García, J. (2010) Sludge treatment wetlands: a review on the state of the art. *Bioresource Technology*, 101, 2905-2912.
- 2009 **Uggetti, E.**, Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. (2009) Sludge dewatering and stabilization in drying reed beds: characterization of three full-scale systems in Catalonia, Spain. *Bioresource Technology*, 100(17), 3882-3890.
- Uggetti, E.**, Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. (2009) Sludge drying reed beds: a case study. *Journal of Residuals Science and Technology*, 6 (1), 57-59.
- Pedescoll, A., **Uggetti, E.**, Llorens, E., Granés, F., Garcia, D., Garcia, J. (2009) Practical method based on saturated hydraulic conductivity used to asses clogging in subsurface flow constructed wetlands. *Ecological Engineering*, 35(8), 1216-1224.

PUBLICATION IN NON-REFEREED JOURNALS

- 2017 **Uggetti, E.**, M.J. García-Galán, García, J. Proyecto INCOVER: Las aguas residuales producen bioproductos y bioenergía. *Retema*, 196, 62-65 (In Spanish).
- 2015 Hughes-Riley, T., Hawes, P., **Uggetti, E.**, Mowberry, L., Trabi, C.L., Ortega Anderez, D., Dye, E.R., Hill-Casey, F., Webber, J.W.B., Puigagut, J., García, J., Newton, M.I., Morris, R.H. 2015, Autonomous Reed Bed Installations. *Water & Wastewater International*, 30(3).
- 2014 **Uggetti, E.**, J. Puigagut, J., García, J. Sensores de resonancia magnética para mejorar la operación de humedales construidos. *Automática e Instrumentación*, 459 (in Spanish).
- 2010 **Uggetti, E.**, Ferrer, I., Castellnou, R., Molist, J., García, J. (2010) Sewage sludge treatment in constructed wetlands. *Infoenviro*, 56, 68-74 (in Spanish).

BOOKS and BOOK CHAPTERS

- 2016 Hawes, P., Hughes-Riley, T., **Uggetti, E.**, Ortega Anderez, D., Newton, M.I., Puigagut, J., Garcia, J., Morris, R.H. Clogging measurement, dissolved oxygen and temperature control in a wetland through the development of an Autonomous Reed Bed Installation (ARBI). Chapter 13 in: *Natural and Constructed Wetlands: Nutrients, heavy metals and energy cycling and flow*. Ed. Vymazal, J. Springer, 165-177. ISBN: 978-3-319-38927-1.
- 2015 **Uggetti, E.**, Passos, F., Solé, M., García, J., Ferrer, I. Biogas from algae via anaerobic digestion. *Algae biotechnology: process and products*. Springer, 2015. Ed. by Faizal, B and Chisti, Y. (Eds.), Springer International Publishing, 344 pages. ISBN: 978-3-319-12333-2.
- Passos, F., **Uggetti, E.**, Carrère, H., Ferrer, I. Algal Biomass– Physical Pretreatments. In: *Pretreatment of biomass: processes and technologies*. Ed. by Pandey, A., Negi, S., Binod, P., Larroche, C. Elsevier, 195-226. ISBN: 978-3-319-12333-2
- 2012 **Uggetti, E.** Sewage Sludge Treatment in Constructed Wetlands. Technical, economic and environmental aspects applied to small communities of the Mediterranean Region. (2012) Ed. LAP Lambert Academic Publishing AG & Co KG, 204 pages. ISBN: 978-38-473-4046-1.
- 2011 **Uggetti, E.**, Ferrer, I., Llorens, E., Güell, D., García, J. (2011) Properties of biosolids from sludge treatment wetlands for land application. Chapter 2 In: *water and nutrient management in natural and constructed wetlands*. Ed. Vymazal, J. Springer, 9-21. ISBN: 978-90-481-9584-8.
- 2010 **Uggetti, E.**, Ferrer, I., Castellnou, R., Molist, J., García, J. (2010) Economic analysis and life cycle approach to compare drying reed beds and conventional treatments for sludge

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management. In: Constructed Wetlands for Sludge Treatment, Uggetti, E., Ferrer, I., Castellnou, R. and García, J. Eds.

CONTRIBUTIONS IN PROCEEDINGS

- 2017
- Arias, D.M., **Uggetti, E.**, García-Galán, M.J., García, J. (2017) Production of polymers by cyanobacteria grown in wastewater treatment system. Proceedings of Forum Italiano sulle Tecnologie Microalgali (FITEMI), Palermo, Italy.
- Arias, D.M., **Uggetti, E.**, García-Galán, M.J., García, J. (2017) Metabolites production by cyanobacteria grown in wastewater treatment systems. Proceedings of Barcelona, Spain. Proceedings of the 2nd International Conference on air, water and soil pollution and treatment, Barcelona, Spain.
- García, J., Passos, F., Gutierrez, R., **Uggetti, E.**, Garfí, M., Ferrer, I. (2017). Energy neutral microalgae-based wastewater treatment plants. Proceedings of the 2nd EWA Spring Conference, Lisbon, Portugal.
- García, J., Passos, F., Gutierrez, R., **Uggetti, E.**, Garfí, M., Ferrer, I. (2017). Energy balance of microalgae-based wastewater treatment plants. Proceedings of the 9th International Conference on Environmental Engineering and Management (ICEEM 2017), Bologna, Italy.
- Arias, D., **Uggetti, E.**, García, M.J., García, J. Strategies for cyanobacteria selection in a tertiary wastewater treatment system for polyhydroxybutyrates and glycogen production. Proceedings of the 1st IWA Conference on Algal Technologies for Wastewater Treatment and Resource Recovery, 2017.Delft, The Netherlands.
- 2016
- Arias, D., **Uggetti, E.**, García, J. Influence of nutrients and light conditions on polyhydroxybutyrates production from wastewater-borne cyanobacteria. Proceedings of the 10th International Society for environmental Biotechnology Conference (ISEB), 2016. Barcelona, Spain.
- Arias, D., **Uggetti, E.**, García, J. (2016). Polyhydroxybutyrates production from wastewater-borne cyanobacteria. Proceedings of 10th International Society for environmental Biotechnology Conference ISEB conference, Barcelona, Spain.
- Arias, D., **Uggetti, E.**, García, J. (2016). Cultivation of wastewater-borne cyanobacteria in a tertiary wastewater treatment system for bioplastics production. Proceedings of 3rd Young algaeeners symposium, Malta.
- Arias, D., Solé, M., **Uggetti, E.**, Garfí, M., García, J., Ferrer, I. (2016). Tertiary wastewater treatment by growing microalgae to produce biogas and treat the digestate. Proceedings of 3rd Young algaeeners symposium, Malta.
- 2015
- Uggetti, E.**, Castellnou, R., Molist, J., Ferrer, I., García, J. (2015). Humedales construidos para el tratamiento de lodo de depuradora: aspectos técnicos, económicos e ambientales. VI Jornada sobre lodos de EDAR, Noviembre 2015, Barcelona, España.
- Uggetti, E.**, Labella, A., Hughes-Riley, T., Morris, R.H., Hawes, P., Puigagut, J., García, J. Improvement of treatment efficiency in intensified experimental constructed wetlands. 6th Wetland Pollutant Dynamics and Control (WETPOL), York, UK.
- Uggetti, E.**, Garfí, M., Romero, X., García, J. Cooperation in water management between urban, rural and industrial stakeholders: from regional water management perspective to local

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implementation a case study of reuse practice in Granollers, Barcelona, Spain. 13th International UFZ-Deltares Conference on Sustainable Use and Management of Soil, Sediment and Water Resources (AquaConSoil). Copenhagen, Denmark.

Ferrer, I. Gutierrez, R., Solé, M., Arias, D., **Uggetti, E.** Garfí, M., García, J. Bioenergy and bioproducts from microalgae grown in wastewater. 12th International Conference on Renewable Resources and Biorefineries. York, UK.

Uggetti, E., Arias, D., Gutiérrez, R., García J. Closing the biogas biorefinery loop by growing microalgae biomass with anaerobic digestate. 5th International Conference on Algal Biomass, Biofuels and Bioproducts, San Diego, USA.

Ferrer, I., Gutiérrez, R., Solé, M., Arias, D., **Uggetti, E.**, Garfí, M., García, J. Towards the production of biofuels and non-food bioproducts from microalgae grown in wastewater. 5th International Conference on Algal Biomass, Biofuels and Bioproducts, San Diego, USA.

Gutiérrez, R., Padilla, A., **Uggetti, E.**, Ferrer, I., García, J. Improvement on settling velocity and microalgal biomass recovery by means of natural flocculants. 5th International Conference on Algal Biomass, Biofuels and Bioproducts, San Diego, USA.

Gutiérrez, R., **Uggetti, E.**, Ferrer, I., García, J. New design of semi-closed horizontal photobioreactor for extensive microalgae cultivation: preliminary results at full-scale using wastewater. 5th International Conference on Algal Biomass, Biofuels and Bioproducts, San Diego, USA.

Ferrer, I., **Uggetti, E.**, Gutierrez, R., Solé, M., Arias, D., García, J. Towards energy neutral microalgae-based wastewater treatment systems for water reuse and resource recovery. Environmental Technology for Impact, Wageningen, The Netherlands.

García, J., Samsó, R., Forquet, N., Molle, P., **Uggetti, E.**, Hughes-Riley, T., Morris, R.H., Hawes, P., Puigagut, J. Clogging modeling and smart subsurface flow constructed wetlands. Proceedings of 9th International Workshop on Nutrient Cycling and Retention in Natural and Constructed Wetlands, Třeboň, Czech Republic.

2014 Ferrer, I., Passos, I., Gutierrez, R., Solé, M., **Uggetti, E.**, García, J. Producción de microalgas y biogás en sistemas de tratamiento de aguas residuales. Mesa Española de Tratamiento de Aguas (META 14), Alicante, Spain.

Hughes-Riley, T., Newton, M.I., Webber, J.B.W., Puigagut, J., **Uggetti, E.**, Garcia, J., Morris, R.H. 2014, Advances in Automated Reed Bed Installations, 2nd International Conference Water resources and wetlands, Tulcea, Romania.

Hawes, P., Hughes-Riley, T., **Uggetti, E.**, Puigagut, J., Garcia, J., Morris, R.H. Clogging measurement, dissolved oxygen and temperature control in a wetland through the development of an Autonomous Reed Bed Installations (ARBI). IWA 14th International Conference on Wetland Systems for Water pollution Control (WETPOL), Shanghai, China.

Hughes-Riley, T., Newton, M.I., Webber, J.B.W., Puigagut, J., **Uggetti, E.**, Garcia, J., Morris, R.H., MR Takes To The Marshes Automated Reed Bed Installations, 12th International Bologna Conference on Magnetic Resonance in Porous Media (MRPM12), Wellington, New Zealand.

Uggetti, E., Sialve, B., Steyer, J.P. Recycling of anaerobic digestion effluents in microalgae culture. Proceedings of 2nd Young algaeeners symposium, Narbonne, France.

2012 **Uggetti, E.**, Sialve, B., Bernet, N., Steyer, J.P. Growth performance of a freshwater algal ecosystem: effect of winter time and carbon dioxide addition. Proceedings of 1st Young algaeeners symposium, Wageningen, The Netherlands.

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- 2011 **Uggetti, E.**, Ferrer, I., García, J. Measurement of greenhouse gas emissions from constructed wetlands for sludge treatment. Proceedings of 3rd International Congress on Wastewater in Small Communities SMALLWAT, Seville, Spain.
- Pedescoll, A., **Uggetti, E.**, Samsó, R., Knowles, P., García, J. Design criteria on clogging of subsurface flow constructed wetlands: full-scale experience. Proceedings of 3rd International Congress on Wastewater in Small Communities SMALLWAT, Seville, Spain.
- 2010 **Uggetti, E.**, Ferrer, I., Molist, J., García, J. (2010) Economic analysis and life cycle approach to compare constructed wetlands and conventional treatments for sludge management. Proceedings of 12th International Conference on Wetland Systems for Water Pollution and Control (WETPOL), Venice, Italy.
- Uggetti, E.**, Ferrer, I., Güell, D., Molist, J., García, J. Technical, economic and environmental analysis of sludge treatment wetlands. Proceedings of 2nd European Conference on Sludge Management (ECSM2010), Budapest, Hungary.
- Uggetti, E.**, Ferrer, I., Güell, D., Molist, J., García, J. Sludge treatment in constructed wetlands: technic and economic aspects. Proceedings of Young Water Professional Spain, Barcelona, Spain.
- 2009 **Uggetti, E.**, Pedescoll, A., Llorens, E., Ferrer, I., Castellnou, R., Molist, J., García, J. Treatment of sludge by means of drying reed beds: technical aspects. Proceedings of 7th International Workshop on Nutrient Cycling and Retention in Natural and Constructed Wetlands, Třeboň, Czech Republic.
- Uggetti, E.**, Ferrer, I., Llorens, E., García, J. Treatment processes in sludge drying reed beds. 3rd Wetland Pollutant Dynamics and Control (WETPOL), Barcelona, Spain.
- Ferrer, I., **Uggetti, E.**, Poggio, D., Martí, J., Velo, E. Biogas production from organic wastes in low cost biodigesters. II Congress Sustainable UPC 2015, Barcelona, Spain (in Catalan).
- 2008 **Uggetti, E.**, Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. Sludge dewatering and mineralisation in two full-scale drying reed beds in Catalonia, Spain. Proceedings of the European Conference on Sludge Management (ECSM 08), Liège, Belgium.
- Uggetti, E.**, Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. Sludge dewatering and mineralisation in two full-scale drying reed beds in Catalonia, Spain. Proceedings of the International Symposium on Sanitary and Environmental Engineering (SIDISA 2008), Florence, Italy.
- Uggetti, E.**, Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. Sludge dewatering in drying reed beds. Proceedings of the Spanish Water Treatment Network (META 08), Tenerife, Spain (in Spanish).
- 2007 Pedescoll, A., **Uggetti, E.**, Llorens, E., Puigagut, J., Granes, F., Garcia, D., García, J. Linking indirect measures to clogging phenomena in full-scale subsurface flow constructed wetlands. Proceedings of the II International Congress Wastewater Treatment in Small Communities (SMALLWAT 2007). Seville, Spain.

TECHNICAL REPORTS - TECHNOLOGY TRANSFER

- 2014 Uggetti, E. and García, J. Ballast water treatment. Determination of chlorine doses. Integral Design and Development.

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- 2010 Annual and final technical reports concerning the project “Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria”. Technical report for the Spanish Environmental Ministry.
- 2009 Annual technical report concerning the project “Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria”. Technical report for the Spanish Environmental Ministry.
- 2008 Annual technical report concerning the project “Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria”. Technical report for the Spanish Environmental Ministry.
- Uggetti, E.,** Llorens, E., Ferrer, I., García, J. Sewage sludge treatment in drying reed beds: study of design and operation parameters. Technical report for the Catalan Water Agency, Catalan Government (In Catalan).
- Uggetti, E.,** Llorens, E., Ferrer, I., García, J. Design criteria for sewage sludge treatment in drying reed beds. Technical report for the Catalan Water Agency, Catalan Government (In Catalan).

COURSES TAUGHT

- 2014-2017 Water Engineering-Universitat Politècnica de Catalunya-BarcelonaTech
- 2013-2014 Ecology. Microalgae -Université de Perpignan
- 2010-2011 Water Quality Analysis (Lab course)-Universitat Politècnica de Catalunya-BarcelonaTech
Environmental Engineering-Universitat Politècnica de Catalunya-BarcelonaTech
Ecology-Universitat Politècnica de Catalunya-BarcelonaTech
- 2009-2010 Water Quality Analysis (Lab course) -Universitat Politècnica de Catalunya-BarcelonaTech
Environmental Engineering-Universitat Politècnica de Catalunya-BarcelonaTech
Ecology -Universitat Politècnica de Catalunya-BarcelonaTech
- 2008-2009 Water Quality Analysis (Lab course)-Universitat Politècnica de Catalunya-BarcelonaTech
Environmental Engineering-Universitat Politècnica de Catalunya-BarcelonaTech
- 2007-2008 Environmental Engineering-Universitat Politècnica de Catalunya-BarcelonaTech

SUPERVISION OF STUDENTS

- 2016-2017 Rúben Tijeras, BSc thesis in Civil Engineering, Cuantificación de bioplásticos en cianobacterias cultivadas en un sistema de depuración de agua residual. Universitat Politècnica de Catalunya BarcelonaTech.
- 2015- 2019 Dulce Arias, PhD thesis in Environmental Engineering, Production of bioplastics from cyanobacteria grown in wastewater. Universitat Politècnica de Catalunya BarcelonaTech.
- 2013- 2016 Raquel Gutierrez, PhD thesis in Environmental Engineering, Microalgae harvesting in wastewater treatment plants: Flocculation strategies to improve biomass recovery. Universitat Politècnica de Catalunya BarcelonaTech.

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- 2016 Alessandro Labella, PhD thesis in Environmental Engineering, Sviluppo di tecnologie avanzate per sistemi naturali di depurazione acque: gestione, valutazione e analisi tecnico-economica di Intensified Constructed Wetlands. Università degli Studi della Basilicata (Italy).
- 2015-2016 Rúbén López, BSc thesis in Civil Engineering, Cuantificación de polihidroxicianobacterias en aguas residuales. Universitat Politècnica de Catalunya BarcelonaTech.
- Carlos Torrado, BSc thesis in Civil Engineering, Cultivo de cianobacterias para la producción de bioplásticos en un fotobioreactor tubular cerrado alimentado con digestato. Universitat Politècnica de Catalunya BarcelonaTech.
- 2014-2015 Rosanna Margalef, MSc thesis in Biotechnology, Using Microbial Fuel Cells as an on-line monitoring tool in anaerobic digesters. Universidad de Barcelona.
- Manel Mateu, BSc thesis in Civil Engineering, Membrane-less microbial fuel cell for semi-continuous assessment of treatment efficiency in pilot-scale constructed wetlands. Universitat Politècnica de Catalunya BarcelonaTech.
- Andrés Aguajo, BSc thesis in Civil Engineering, Microalgal production in closed photobioreactor treating wastewater. Universitat Politècnica de Catalunya BarcelonaTech.
- Jaime Culebro, MSc thesis in Sustainability, Enhancement of microalgal separation and fermentation by means of natural coagulants. Universitat Politècnica de Catalunya BarcelonaTech.
- Clara Cogul, Msc thesis in Civil Engineering, Development of an experimental microbial fuel cell system for monitoring the anaerobic digestion process. Universitat Politècnica de Catalunya BarcelonaTech.
- 2013-2014 Elisabeth Ramos, BSc thesis in Civil Engineering, Microbial fuel cells as sensors controlling anaerobic digestion of microalgal biomass. Universitat Politècnica de Catalunya BarcelonaTech.
- Ignacio Marín, BSc thesis in Civil Engineering, Enhancement of microalgal separation by means of natural coagulants. Universitat Politècnica de Catalunya BarcelonaTech.
- 2010-2011 Albert Argilaga, BSc thesis in Civil Engineering, Numerical modelling of sludge dewatering process in sludge treatment wetlands. Universitat Politècnica de Catalunya BarcelonaTech.
- Ana Ferrer, MSc thesis in Environmental Engineering, Methane production sludge treatment wetlands, Universitat Politècnica de Catalunya BarcelonaTech.

STAYS IN INTERNATIONALLY RECOGNISED RESEARCH CENTERS

- 2010 Biogeochemistry Research Group - University of Eastern Finland, Kuopio, Finland. 18 weeks. Topic: greenhouse gases emissions measurement in natural ecosystems.
- 2010 Plant Biology Research Group - University of Aarhus, Aarhus, Denmark. 4 weeks. Topic: greenhouse gases emissions measurement in constructed wetlands.
- 2009 Soluciones Prácticas ITDG, Cajamarca, Peru. 9 weeks. Topic: Biogas quality and production: a comparative study on low-cost digesters at the Peruvian Andes.

OTHER ACHIEVEMENTS

- 2017 Guest Editor of the Special Edition ISEB of Science of the Total Environment.
- 2016 Scientific committee of the 10th ISEB Conference, 1st-3rd June 2016 Barcelona, Spain.

Enrica Uggetti Curriculum vitae

- 2014 Organising and scientific committee of the 2nd Young Algaeneers Symposium, 3rd-5th April 2014 Narbonne, France.
- 2013 Special Price for the PhD thesis from the Doctoral School of the Universitat Politècnica de Catalunya-BarcelonaTech.
- 2010 3rd special price "Young Constructed Wetlands Special Prize" of the "12th International Conference on Water Systems for Water Pollution Control". Venice 4th-8th October 2010.
Organising committee of the seminar Constructed wetlands for sludge treatment, 15th June 2010 Vic, Barcelona, Spain.
- 2009 Organising committee of the 3rd Wetland Pollutant Dynamics and Control (WETPOL2009), 20th-24rd September 2009 Barcelona, Spain.

Reviewer of the following journals: Aquaculture, Bioresource Technology, Chemical Engineering Journal, Ecological Engineering, Journal of Hazardous Materials, Science of the Total Environment, Water Research, Water Science and Technology, The environmentalist, Desalination, Energy, Environmental and Science Technology. Editorial board of Environmental Processes Journal.