

MARINA CELIA CAMPOS MAÑAS

CURRICULUM VITAE

*Post-doc at Department of Chemical Engineering
CIESOL (Solar Energy Research Center)- Functional Unit "Environmental Analysis"
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Education

- **PhD Thesis in Advanced Chemistry**, International Doctoral Dissertation, University of Almeria, Spain, 2019. Cum laude distinction.
- **Master's Degree in Environmental Education**, University of Almeria (UAL), Almeria, Spain, 2019 – 2020.
- **Master's Degree in Secondary Education Teaching**, University of Almeria (UAL), Almeria, Spain, 2017 – 2019.
- **Master's Degree in Advanced Chemistry**, Faculty of Chemistry, University of Almeria (UAL), Almeria, Spain, 2014 – 2015.
- **B.S. in Chemistry**, Faculty of Chemistry, University of Almeria (UAL), Almeria, Spain, 2010-2014.

Research Experience

April 2021 – Present: **Juan de la Cierva Formación**, Instituto Universitario de Plaguicidas y Aguas (IUPA), **University Jaime I (UJI)**, Castellon, Spain.

July 2020 – March 2021: Post-doc research staff, Instituto Universitario de Plaguicidas y Aguas (IUPA), **University Jaime I (UJI)**, Castellon, Spain.

December 2019 – July 2020: *Post-doc*, unit "Environmental analysis and water treatment" at **CIESOL (Solar Energy Research Center)**, **University of Almeria (UAL)**, Almeria, Spain.

May 2016 – December 2019: *Ph.D. Research Scholar*, **CIESOL (Solar Energy Research Center)**, **University of Almeria (UAL)**, Almeria, Spain.

March – May and August – October 2018: visiting research scientist (as part of the Ph.D.) at the **Center for Environmental Mass Spectrometry** in the **University of Colorado**, Boulder, CO, United States of America. 5 months.

Jan 2015 – May 2016: *Research staff*, **CIESOL (Solar Energy Research Center) - Functional Unit "Environmental Analysis"**, **University of Almeria (UAL)**, Almeria, Spain.

April 2015 - July 2015: Master thesis at the **Chemistry Department of the University of Almeria** in Almeria, Spain (advisor: Prof. Ana Agüera). "Development and validation of an analytical method using LC-QqLIT-MS for the determination of two carbapenem antibiotics in natural and residual waters. Application to photolysis studies".

Awards and Honors

Award for the best academic record of the Faculty of Experimental Sciences in Chemistry year of completion 2013-2014. Faculty of Experimental Sciences. University of Almeria.

Young Lecture Award in 14th Annual LC/MS/MS Workshop on Environmental Applications and Food Safety. June 2018. SECyTA - Sociedad Española de Cromatografía y Técnicas Afines.

Young Lecture Award in ISEAC-40 University of Santiago de Compostela. 40th International Conference on Environmental & Food Monitoring. June de 2018.

Award for the best presentation in Testing the Waters 5. Brisbane, Australia. October 2021.

List of Publications

1. Changes in drug use in European cities during early COVID-19 lockdowns – A snapshot from wastewater analysis. *Environment International*, 153,106540. Frederic Been, Erik Emke, Joao Matias, Jose Antonio Baz-Lomba, Tim Boogaerts, Sara Castiglioni, Marina Campos-Mañas, Alberto Celma, Adrian Covaci, Pim de Voogt, Félix Hernández, Barbara Kasprzyk-Hordern, Thomas ter Laak, Malcolm Reid, Noelia Salgueiro-González, Ruud Steenbeek, Alexander L.N. van Nuijs, Ettore Zuccato, Lubertus Bijlsma.
2. Enhanced activated persulfate oxidation of ciprofloxacin using a low-grade titanium ore under sunlight: influence of the irradiation source on its transformation products. *Environmental Science and Pollution Research*. 28(19), pp. 24008-24022. Macías-Vargas, J.-A., Campos-Mañas, M.C., Agüera, A., Sánchez Pérez, J.A., Ramírez-Zamora, R.-M.
3. Identification of opioids in surface and wastewaters by LC/QTOF-MS using retrospective data analysis. 874-884, 664 (2019) *Science of the total Environment*. Campos-Mañas, Marina Celia; Ferrer, Imma; Thurman, Earl Michael; Sanchez-Perez, Jose Antonio; Agüera-López, Ana
4. Determination of pesticide levels in wastewater from an agro-food industry: Target, suspect and transformation product analysis. 152-163, 232 (2019) *Chemosphere*. Campos-Mañas, Marina Celia; Plaza-Bolaños, Patricia; Sanchez-Perez, Jose Antonio; Agüera-López, Ana.
5. Combined toxicity of graphene oxide and wastewater to the green alga *Chlamydomonas reinhardtii*. 7 (2018) *Environmental Science: Nano*. Martín-de-lucía, Idoia; Campos-Mañas, Marina Celia; Agüera-López, Ana; Leganés, Francisco; Fernández-piñas, Francisca; Rosal, Roberto
6. Opioid occurrence in environmental water samples - A review. (2018) *Trends in Environmental Analytical Chemistry*. Campos-Mañas, Marina Celia; Ferrer, Imma; Thurman, Earl Michael; Agüera-López, Ana
7. Does micropollutant removal by solar photo-Fenton reduce ecotoxicity in municipal wastewater? A comprehensive study at pilot scale open reactors. *Journal of Chemical Technology and Biotechnology* (2017) Rivas-Ibáñez, Gracia; Campos-Mañas, Marina Celia; Agüera-López, Ana; Casas-Lopez, Jose Luis; Sanchez-Perez, Jose Antonio
8. Reverse Trojan-horse effect decreased wastewater toxicity in the presence of inorganic nanoparticles. 1273 – 1282, 4 (2017). *Environmental Science: Nano*. Martín De Lucía, Idoia; Campos-Mañas, Marina Celia; Agüera-López, Ana; Rosal, Roberto.
9. Ecotoxicity evaluation of a WWTP effluent treated by solar photo-Fenton at neutral pH in a raceway pond reactor. 1093 – 1104, 4, 24 (2017). *Environmental Science and Pollution Research*. Rivas-Ibáñez, Gracia; Campos-Mañas, Marina Celia; Casas-Lopez, Jose Luis; Agüera-López, Ana; Sanchez-Perez, Jose Antonio
10. Effect of residence time on micropollutant removal in WWTP secondary effluents by continuous solar photo-Fenton process in raceway pond reactors. 1114 – 1121, 316 (2017). *Chemical Engineering Journal*. Arzate, Sandra Yazmin; Garcia-Sanchez, Jose Luis; Soriano Molina, Paula; Casas-Lopez, Jose Luis; Campos-Mañas, Marina Celia; Agüera-López, Ana; Sanchez-Perez, Jose Antonio.
11. Fast determination of pesticides and other contaminants of emerging concern in treated wastewater using direct injection coupled to highly sensitive ultra high-performance liquid chromatography-tandem mass spectrometry. 89-94, 1507 (2017). *Journal of Chromatography A*. Campos-Mañas, Marina Celia; Plaza-Bolaños, Patricia; Sanchez-Perez, Jose Antonio; Malato-Rodríguez, Sixto; Agüera-López, Ana.

Chapters in books

1. Chapter 3. Analytical Strategies used in HRMS. Agüera-López, Ana; Martínez-Piernas, Ana Belén; Campos-Mañas, Marina Celia. Applications in High Resolution Mass Spectrometry. Food Safety and Pesticide Residue Analysis. **59 - 83**. Amsterdam, Holand. Elsevier. ISBN: 978-0-12-809464-8. (2017)

Research projects

1. **Research collaborator** in the project 'Solar Facilities for the European Research Area-Second phase (SFERA II)'. Funding entity: EC, VII-FP. Research Infrastructures for Solar Energy: Concentrating solar power. Grant Agreement n°: 312643. INFRA-2012-1.1.17. De: 01/01/2015 a 31/12/2017. Budget: 6.98 M€.
2. **Research staff** of the research project 'Cost reduction of the photo-Fenton solar process through extensive open reactors for water regeneration' (REQUA). CTQ2013-46398-R. Funding entity: Ministry of Economy and Competitiveness (Spain). Main researcher: José Antonio Sánchez Pérez (Solar Energy Research Centre (CIESOL), University of Almería). From 01/01/2015 to 31/12/2017. Budget: 196,020 €.
3. **Research staff** of the research project 'Disinfection of WWTP secondary effluents by solar photo-Fenton process in raceway pond reactors. Effect on antibiotic resistance transfer (SOLFENDIS)'. CTQ2016-78255-R. Funding entity: Ministry of Economy and Competitiveness (Spain). Main researchers: Ana Agüera López and José Antonio Sánchez Pérez (Solar Energy Research Centre (CIESOL), University of Almería). From 30/12/2016 to 29/12/2019. Budget: 134,310 €.
4. **Research collaborator** in the project 'Pollutant Photo-NF remediation of Agro-Water' (LIFE PureAgroH2O). LIFE17ENV/GR/000387. Funding entity: European Union. Main researcher: Ana Agüera López. From 02/07/2018 to 31/12/2021. Budget: 443,460€.
5. **Research collaborator** in the project "Europe-wide Sewage analysis to Monitor Emerging drug problems (EUSeME)". 2020-2021, JUST-2018-AG-DRUGS, Proposal 861602, Horizon 2020 - Research and Innovation Framework Programme. Total budget: 725,717.66€. UJI budget: 150,592.66€.
6. **Research collaborator** in the project "Investigación de antibióticos en aguas residuales de la provincia de Castellón: detección, eficiencia de eliminación en las EDAR, impacto ambiental y resistencia antimicrobiana". Convenio con la Generalitat Valenciana, Conselleria de Agricultura, Desarrollo Rural, Emergencia Climática y Transición Ecológica 2021, Importe: 40.000€.
7. **Research staff** in the preparation action Project "Exposición a plaguicidas en la edad pediátrica y su impacto en la composición corporal y el metabolismo". Funding entity: Generalitat Valenciana (Spain). Main researchers: Juana Maria Delgado and Ana Pilar Nso (UJI-FISABIO). 2021. Budget: 5,000 €.

Contracts

1. **Pre-doctoral contract**: Technical collaboration necessary for the project: Cost reduction of the photo-Fenton solar process through extensive open reactors for water regeneration". University of Almeria – CIESOL. Main researcher: José Antonio Sánchez Pérez (Solar Energy Research Centre (CIESOL), University of Almería). From 12/01/2015 to 14/05/2016. Budget: 14,350€.
2. **Scholarship-Predoctoral Contract**. Project "Development of analytical methods using high- and low-resolution mass spectrometry for the systematic evaluation of wastewater treatment processes". From 15/05/2016 to 13/12/2019. Funding entity: University of Almería, Plan Propio de Investigación. Budget: salary according to the FPU (Ministry of Spain).
3. **Post-doctoral contract**. Project 'Proposal of alternative matrices for quantification through external calibration in the matrix of complex samples in the absence of matrix whites: organic microcontaminants in residual waters as a case study'. From 16/12/2019 to 12/07/2020. Main

researcher: José Antonio Sánchez Pérez. Funding entity: University of Almería, Plan Propio de Investigación. Budget: 10,799.7 €

4. **Post-doctoral contract.** Project 'Europe-wide Sewage analysis to Monitor Emerging drug problems'. From 13/07/2020 to 31/03/2021. From 13/07/2020 to 31/03/2021. Budget: 21,840€.

Oral presentations in conferences

1. Refining wastewater-based epidemiology to monitor cannabis consumption: evaluating the sorption of biomarkers on the solid phase of wastewater. M. C. Campos-Mañas, N. van Wichelen, C. Simarro-Gimeno, C. Ort, F. Been, J. A. Baz-Lomba, T. Boogaerts, S. Castiglioni, A. Covaci, P. de Voogt, B. Kasprzyk-Hordern, T. ter Laak, M. Reid, N. Salgueiro-Gonzalez, R. Steenbeek, A. L.N. van Nuijs, F. Hernandez, L. Bijlsma. Testing the waters 5, on-line, Australia, 28/09/2021 – 01/10/2021.
2. Spatial and temporal assessment of crack cocaine use in 13 European cities: Case study in 2021 using wastewater-based epidemiology. R. Steenbeek, D. Vughs, J. A. Baz-Lomba, T. Boogaerts, S. Castiglioni, A. Covaci, P. de Voogt, B. Kasprzyk-Hordern, T. ter Laak, E. Emke, M. Reid, N. Salgueiro-Gonzalez, C. Ort, J. Matias, W. Meijer, M. C. Campos-Mañas, A. L.N. van Nuijs, F. Hernandez, L. Bijlsma, F. Been. Testing the waters 5, on-line, Australia, 28/09/2021 – 01/10/2021.
3. Analysis of Opioids in Waters by LC/Q-TOF-MS. Imma Ferer; Marina Celia Campos-Mañas; Ana Agüera; Michael Thurman. The Pittsburg Conference on Analytical Chemistry and Applied Spectroscopy, Pittcon 2019. 17/03/2019 – 21/03/2019. Philadelphia, PA (USA).
4. Retrospective data analysis by LC-QTOF-MS: searching for opioids in wastewater effluent and receiving surface waters. 14th Annual LC/MS/MS Workshop on Environmental Applications and Food Safety. 26/06/2018 - 27/06/2018. Barcelona, Spain. Campos-Mañas, Marina Celia; Ferrer, Imma; Thurman, E. Michael; Sanchez-Perez, Jose Antonio; Agüera-López, Ana.
5. Pesticide discharge via wastewater effluents from an agro-food industry as a potential risk for the environment. Internacional Conference on Environmental & Food Monitoring. 19/06/2018 - 22/06/2018. Santiago de Compostela, España. Campos-Mañas, Marina Celia; Berenguel-Vicente, María Del Mar; Plaza-Bolaños, Patricia; Sanchez-Perez, Jose Antonio; Agüera-López, Ana.
6. Does micropollutant removal by solar photofenton reduce ecotoxicity in municipal wastewater? A comprehensive study at pilot scale in open reactors. V Mini-Simposio de Investigación en Ciencias Experimentales. 15/11/2016 - 15/11/2016. University of Almería, Almería, Spain. Campos-Mañas, Marina Celia; Rivas-Ibáñez, Gracia; Agüera-López, Ana; Sanchez-Perez, Jose Antonio.
7. Desarrollo y validación de un método mediante LC-QqLIT-MS para la evaluación analítica del proceso foto-Fenton solar. IV Minisimposium de Investigación en Ciencias Experimentales. 13/11/2015 - 13/11/2015. University of Almería, Spain. Campos-Mañas, Marina Celia; Soriano Molina, Paula; Arzate, Sandra Yazmin; Agüera-López, Ana; Sanchez-Perez, Jose Antonio.
8. Toxicidad no aditiva en mezclas de nanopartículas sintéticas y contaminantes de agua residual depuradora. XIII Congreso Español de Tratamiento de Aguas. 18/06/2018 - 20/06/2018. Leon, Spain. Martín-de-lucía, Idoia; Campos-Mañas, Marina Celia; Agüera-López, Ana; Leganés, Francisco; Fernández-piñas, Francisca; Rosal, Roberto.

Poster presentations in conferences

1. Evaluation of human exposure to pesticides in the surrounding of tulip fields through wastewater analysis. Lubertus Bijlsma, Eva de Rijke, Marina Celia Campos-Mañas, David Fabregat-Safont, Félix Hernández, Pim de Voogt, Annemarie van Wezel. Testing the waters 5, on-line, Australia, 28/09/2021 – 01/10/2021.
2. Strategies to increase the treatment capacity by solar photo-Fenton at neutral pH operated in

continuous mode. 6th European Conference on Environmental Applications of Advanced Oxidation Processes. Portorož, Slovenia from 26th – 28th June 2019. S. Arzate, M.C. Campos-Mañas, S. Miralles-Cuevas, J. L. García Sánchez, A. Agüera, J.A. Sánchez Pérez.

3. Analytical Evaluation of the Removal of Emerging Contaminants Throughout a Treatment Line for Landfill Leachate Remediation. 40th International Conference on Environmental & Food Monitoring. 19/06/2018 - 22/06/2018. Santiago de Compostela (Spain). Ruíz-delgado, Ana; Gracia-gómez, Elisa; Campos-Mañas, Marina Celia; Plaza-Bolaños, Patricia; Oller-Alberola, Isabel; Agüera-López, Ana
4. Degradation of micropollutants in WWTP secondary effluents by continuous flow solar photo-Fenton process at neutral pH in open reactors. 10th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 10). 04/06/2018 - 08/06/2018. Almería, Spain. Arzate, Sandra Yazmin; Campos-Mañas, Marina Celia; Lorenzo, Ana; Agüera-López, Ana; Sanchez-Perez, Jose Antonio
5. Multiresidue Determination of Antibiotics in Wastewater Effluents using Liquid Chromatography-Triple Quadrupole Mass Spectrometry. 18th European Meeting on Environmental Chemistry. 26/11/2017 - 29/11/2017. Oporto, Portugal. Lorenzo, Ana; Campos-Mañas, Marina Celia; Esteban-García, Ana-Belén; Sanchez-Perez, Jose Antonio; Agüera-López, Ana.
6. Multiresidue method for the analysis of pesticides in wastewater of different origin by solid-phase extraction and liquid chromatography-tandem mass spectrometry. VI Minisimposio de Investigación en Ciencias Experimentales. 15/11/2017 - 15/11/2017. Universidad de Almería, Almería, España. Campos-Mañas, Marina Celia.
7. Development and validation of a LC-MS/MS method for microcontaminant evaluation in real wastewater effluents during solar photo-Fenton treatment. 3rd Iberoamerican Conference on Advance Oxidation Technologies. 14/11/2017 - 17/11/2017. Guatapé, Colombia. Sanchez-Perez, Jose Antonio; Campos-Mañas, Marina Celia; Lorenzo, Ana; Rivas-Ibáñez, Gracia; Agüera-López, Ana.
8. Development of a multiresidue method for the analysis of antibiotics in wastewater effluents by LC-QqLIT-MS/MS. VI Minisimposio de Investigación en Ciencia Experimentales. 14/11/2017 - 15/11/2017. University of Almería, Spain. Lorenzo, Ana; Campos-Mañas, Marina Celia; Plaza-Bolaños, Patricia; Sanchez-Perez, Jose Antonio; Agüera-López, Ana
9. Efecto del tiempo de residencia hidráulico en la degradación de microcontaminantes en efluentes secundarios de EDAR mediante el proceso foto-Fenton solar operado en modo continuo en reactores raceway. V Minisimposium de Investigación en Ciencias Experimentales. 15/11/2016 - 15/11/2016. University of Almería. Arzate, Sandra Yazmin; Campos-Mañas, Marina Celia; Soriano Molina, Paula; Sanchez-Perez, Jose Antonio.
10. Determinación de plaguicidas en efluentes de plantas depuradoras urbanas e industriales. XII Reunión de la Mesa Española de Tratamiento de Aguas. 20/06/2016 - 22/06/2016. Madrid, Spain. Campos-Mañas, Marina Celia; Arzate, Sandra Yazmin; Casas-Lopez, Jose Luis; Sanchez-Perez, Jose Antonio; Agüera-López, Ana
11. Análisis de 115 contaminantes de interés emergente en aguas residuales mediante inyección directa en cromatografía líquida-espectrometría de masas en tándem (DI-LC-MS/MS). Reunión de la Mesa Española de Tratamiento de Aguas. 20/06/2016 - 22/06/2016. Madrid, Spain. Campos-Mañas, Marina Celia; Soriano Molina, Paula; Agüera-López, Ana; Sanchez-Perez, Jose Antonio; Malato-Rodríguez, Sixto
12. Multiresidue method for the analysis of 32 pesticides in urban and industrial wastewater by solid-phase extraction and liquid chromatography-tandem mass spectrometry. HPLC 2016 - 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques. 19/06/2016 - 24/06/2016. San Francisco, CA, USA. Campos-Mañas, Marina Celia; Esteban-García, Ana-Belén; Casas-Lopez, Jose Luis; Sanchez-Perez, Jose Antonio;

Agüera-López, Ana

13. Development of a SPE-LC-MS/MS Method for the Analysis of Microcontaminants during wastewater Treatment Processes. 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques. 19/06/2016 - 24/06/2016. San Francisco, CA, USA. Campos-Mañas, Marina Celia; Rivas-Ibáñez, Gracia; Agüera-López, Ana; Sanchez-Perez, Jose Antonio; Malato-Rodríguez, Sixto
14. Multiresidue analysis of 115 microcontaminants in wastewater using direct injection coupled to high performance liquid chromatography and tandem mass spectrometry (DI-LC-MS/MS). HPLC 2016 - 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques. 19/06/2016 - 24/06/2016. San Francisco, CA, USA. Campos-Mañas, Marina Celia; Agüera-López, Ana; Sanchez-Perez, Jose Antonio; Malato-Rodríguez, Sixto
15. Analytical approach for monitoring microcontaminants during wastewater treatment. Effect of variation in the composition of the matrix on the quantitative analysis. 9th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. 13/06/2016 - 18/06/2016. Strasbourg, Germany. Campos-Mañas, Marina Celia; Rivas-Ibáñez, Gracia; Sanchez-Perez, Jose Antonio; Malato-Rodríguez, Sixto.
16. Solar Photo-Fenton Toxicity Removal in Municipal Wastewater. A multi-test assessment. 9th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications. 13/06/2016 - 17/06/2016. Strasbourg, France. Rivas-Ibáñez, Gracia; Sanchez-Perez, Jose Antonio; Campos-Mañas, Marina Celia; Agüera-López, Ana; Casas-Lopez, Jose Luis; Bittner, Michal; Hilscherová, Klara
17. Desarrollo de un método mediante SPE-LC-MS/MS para el análisis de microcontaminantes durante el tratamiento de aguas. Mesa Española para el Tratamiento del Agua 2016. 09/06/2016 - 11/06/2016. Madrid. Campos-Mañas, Marina Celia; Soriano Molina, Paula; Rivas-Ibáñez, Gracia; Agüera-López, Ana; Sanchez-Perez, Jose Antonio; Malato-Rodríguez, Sixto
18. Improving the analysis of early eluting polar compounds in LC-MS. IV Minisimposium de Investigación en Ciencias Experimentales. 13/11/2015 - 13/11/2015. University of Almeria. Lorenzo-flores, Ana; Campos-Mañas, Marina Celia; Agüera-López, Ana
19. Ecotoxicity evaluation of secondary effluent treated by solar photo-Fenton at neutral pH in a raceway pond reactor. 4th European Conference on Environmental Applications of Advanced Oxidation Processes. 21/10/2015 - 24/10/2015. Athens (Greece). Freitas, Adriane; Sanchez-Perez, Jose Antonio; Rivas-Ibáñez, Gracia; Cabrera-Reina, Alejandro; Campos-Mañas, Marina Celia; Casas-Lopez, Jose Luis
20. Cost estimation of solar photo-Fenton process in raceway pond reactors as tertiary treatment. 4th European Conference on Environmental Applications of Advanced Oxidation Processes. 21/10/2015 - 24/10/2015. Athens (Greece). Román-Sanchez, Isabel M^a; Rivas-Ibáñez, Gracia; Campos-Mañas, Marina Celia; Arzate, Sandra Yazmin; Sanchez-Perez, Jose Antonio

Events organization

- Participation in the preparation of workshops and presentation of the activities under the **"Connecta amb la Ciència"** program organized by the Jaume I University (UJI) of Castellón. November 10, 2021.
- Participation in the preparation of workshops and presentation of the activities under the **"Connecta amb la Ciència"** program organized by the Jaume I University (UJI) of Castellón. November 10, 2020.
- Participation in the **'European researchers' night'** - 2020. Actividad: El algodón no engaña... ni a las drogas sintéticas. Project: MEDNIGHT. Funding entity: European Commission.

Programme: MSCA European Researchers' Night (H2020-MSCA-NIGHT-2020).

- Participation in the '**European researchers' night**' - 30/09/2016. Activity: 'Water and its reuse by using solar technology treatments'. Project: Openresearchers 2015/16 (Grant agreement 633304). Funding entity: European Commission. Programme: Marie Skłodowska-Curie Actions.

- Participation in the '**European researchers' night**' - 29/09/2017. Activity: "Water and its reuse by using solar technology treatments". Project: Openresearchers 2016/17 (Grant agreement 722930). Funding entity: European Commission. Programme: Marie Skłodowska-Curie Actions.

- Participation in the '**Science week**'. Activity: "Guided tour of chemical engineering practice facilities". Scientific Workshop carried out during the Scientific Week at University of Almería. Entity: OTRI- University of Almería. 6-10/11/2017.

- Participation in the '**European researchers' night**' - 27/09/2019. Activity: "Regeneration of industrial wastewater effluents through photo-nanofiltration. Elimination of pesticide type contaminants". Project: Openresearchers 2018/2019 (Grant agreement 818340). Funding entity: European Commission. Programme: Marie Skłodowska-Curie Actions.

Teaching Experience

Supervisor of a Master Thesis, Master's degree in Applied Chromatographic Techniques, Universitat Jaume I, Castellón. Improving the estimation of cannabis consumption by wastewater analysis.

Supervisor of a Master Thesis, Master in Drug Development, 2021, Department Pharmaceutical Sciences, Faculty of Pharmaceutical, Biomedical and Veterinary Sciences, University of Antwerp. Refining wastewater based epidemiology to monitor cannabis consumption: evaluating the sorption of biomarkers.

Subject Chemistry IV, Grade in Chemistry, January 2021 – June 2021, Department of Chemistry, University of Jaume I, Castellon, Spain. 33 hours.

Laboratory basics operations, Grade in Chemistry, January 2021 – June 2021, Department of Chemistry, University of Jaume I, Castellon, Spain. 12 hours.

Subject Chemistry I, Grade in Industrial Chemical Engineering, Sept. 2019 – Dec. 2019, Department of Chemical Engineering, University of Almería, Spain. 19 hours.

Supervisor of a Bachelor Thesis, Chemistry Degree, Sept. 2017 – Jun. 2018, Department of Chemistry, University of Almería, Spain. Full-time.

Subject Chemistry I, Grade in Industrial Chemical Engineering, Sept. 2017 – Jun. 2018, Department of Chemical Engineering, University of Almería, Spain. 38 hours.

Supervisor of a Bachelor Thesis, Chemistry Degree, Sept. 2016 – Jun. 2017, Department of Chemistry, University of Almería, Spain. Full-time.

Subject Chemistry I, Grade in Industrial Chemical Engineering, Sept. 2016 – Jun. 2017, Department of Chemical Engineering, University of Almería, Spain. 19 hours.

Subject Chemistry II, Grade in Agricultural Engineering, Sept. 2016 – Jun. 2017, Department of Chemical Engineering, University of Almería, Spain. 30 hours.