

Josefina Urquiza

PERSONAL INFORMATION

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Actual workplace: Grupo de Estudios de la Atmósfera y el Ambiente (GEAA), Centro de Estudios sobre el Desarrollo Sustentable (CEDS). Universidad Tecnológica Nacional, Facultad Regional Mendoza.

EDUCATION

- PhD in Civil-environmental engineering. Fellowship Plan: "Short-lived pollutants from transportation in Argentina: Impacts on intermediate cities". Director: Dr. Enrique Puliafito (Universidad Tecnológica Nacional – Facultad Regional Mendoza 2020 –2025)
- Bachelor's Degree in Environmental Management. Thesis: Inventory of greenhouse gas (GHG) emissions and pollutants from mobile sources in the city of Villa Carlos Paz". Director: Dr. Sebastian Diez (Universidad Blas Pascal 2012-2017)

PUBLICATIONS

- Puliafito, S. E., Bolaño-Ortiz, T. R., Fernandez, R. P., Berná, L. L., Pascual-Flores, R. M., Urquiza, J., López-Noreña, A. I., and Tames, M. F.: High-resolution seasonal and decadal inventory of anthropogenic gas-phase and particle emissions for Argentina, Earth Syst. Sci. Data, 13, 5027–5069, <https://doi.org/10.5194/essd-13-5027-2021>, 2021
- Bolaño Ortiz, Tomas Rafael; Puliafito, Salvador Enrique; Berná Peña, Lucas Luciano; Pascual Flores, Romina María; Urquiza, Josefina; et al.; Atmospheric emission changes and their economic impacts during the COVID-19 pandemic lockdown in Argentina; Multidisciplinary Digital Publishing Institute; Sustainability; 12; 20; 10-2020; 1-27
- J. Urquiza, S. Diez, A. Bianco, L. Movsesian and J. Britch, "Emissions of land and air transport generated in an intermediate-sized city. The case of Cordoba, Argentina," 2019 Congreso Colombiano y Conferencia Internacional de Calidad de Aire y Salud Pública (CASAP), 2019, pp. 1-4, doi: 10.1109/CASAP48673.2019.9364059.
- Josefina Urquiza, Anahí Bianco, Lucia Movsesian y Sebastián Diez. "Emisiones atmosféricas generadas por la actividad aeroportuaria. Caso de estudio: Aeropuerto Internacional de Córdoba". Contaminación Atmosférica e Hídrica en Argentina, pp. 196-205. ISBN 978-987-4998-41-5 (2020).
- Sebastián Diez, Josefina Urquiza, Anahí Bianco y Martina Villanova. "Emisiones de gases de efecto invernadero y contaminantes del aire generadas por el parque vehicular de la ciudad de Córdoba". Contaminación Atmosférica e Hídrica en Argentina, pp. 206-215. ISBN 978-987-4998-41-5 (2020).

INTERNATIONAL CONFERENCES AND PRESENTATIONS

- Josefina Urquiza, Ariel; Scagliotti, Sebastián Diez. MAIAC algorithm calibration uncertainties for sites with low AOD values. Case study: Metropolitan Area of Buenos Aires. Web Conference. 2021. 16th IGAC Scientific Conference Atmospheric Chemistry from a Distance: Real Progress through Virtual Interaction.
- Ariel Scagliotti, Josefina Urquiza, Sebastián Diez. Uncertainties propagated from optical properties in aerosol classification schemes. Web Conference. 2021. 16th IGAC Scientific Conference Atmospheric Chemistry from a Distance: Real Progress through Virtual Interaction.
- Tames, Maria Florencia; Puliafito, S. Enrique; Urquiza, Josefina; Scagliotti, Ariel. Levels of PM_{2.5} in Great Mendoza and its impact on bicyclists. Web Conference. 2021. 16th IGAC Scientific Conference Atmospheric Chemistry from a Distance: Real Progress through Virtual Interaction.
- Josefina Urquiza, Javier Britch, Sebastian Diez. Vehicle fleet emissions and the Human Development Index, relationship in intermediate argentine cities. Web Conference. 2020. 9th Global Emissions Initiative (GEIA) Conference
- Josefina Urquiza, Sebastian Diez, Anahi Bianco, Lucia Movsesian, Javier Britch. Emissions of land and air transport generated in an intermediate-sized city. The case of Cordoba, Argentina. Barranquilla. Colombia. 2019. Poster. VII Congreso Colombiano y Conferencia Internacional de Calidad de Aire y Salud Pública (CASAP).

ARGENTINE CONFERENCES AND PRESENTATIONS

- Josefina Urquiza, Sebastián Diez, Anahí Bianco, Lucia Movsesian. Inventario de emisiones de Gases de Efecto Invernadero provenientes del sector transporte en la ciudad de Córdoba, Argentina. Cordoba. Argentina. 2019. Congreso Internacional de Cambio Climático.
- Josefina Urquiza, Leonardo Marques, Marina Rega, and Lucia Movsesian y Sebastián Diez. Caracterización de las Emisiones de Gases de Efecto Invernadero y Contaminantes del Aire Provenientes de la Actividad Aeroportuaria. Caso de Estudio: Aeropuerto Internacional Córdoba. Córdoba. Argentina. 2018. 5º Congreso Argentino de Ingeniería Aeronáutica
- Sebastián Diez, Josefina Urquiza, Anahí Bianco, Marina Savanco y Javier Britch. Contaminantes Atmosféricos y GEI'S Emitidos por el Parque Vehicular de una Ciudad Turística: Caso De Estudio Villa Carlos Paz. Oral presentation. Buenos Aires. Argentina. 2018. 3º Congreso Interamericano de Cambio Climático
- Anahí Bianco, Marina Savanco, Josefina Urquiza, Javier Britch y Sebastián Diez. Emisiones de Gases de Efecto Invernadero desde el Parque Vehicular de Carlos Paz. Oral presentation. Argentina. Cordoba. 2016. VI Congreso de la Sociedad de Química y Toxicología Ambiental

RESEARCH PROJECTS

- Environmental Diagnosis of the Province of Cordoba 2018 - Government of the Province of Cordoba (2018 - 2019)
- Inventory of greenhouse gas emissions and pollutants from mobile sources in the city of Córdoba, Argentina". Government of the Province of Córdoba (July 2016-July 2018). Bottom-Up Inventory emissions of PM₁₀, SO₂, NO₂, CO and VOCs and CO₂, CH₄ and N₂O from the circulating vehicle fleet in the city of Córdoba, Argentina.
- Inventory of greenhouse gas emissions and pollutants from mobile sources in the city of Villa Carlos Paz, Argentina". Government of Villa Carlos Paz (December 2015-December 2017). Bottom-Up Inventory emissions of PM₁₀, SO₂, NO₂, CO and VOCs and CO₂, CH₄ and N₂O from the circulating vehicle fleet in the city of Villa Carlos Paz, Argentina
- Short-Lived Climate Pollutants missions generated by road and air transport in the Argentine Republic".

TEACHING EXPERIENCE

- Teaching assistant in "Atmospheric pollution", Master in Environmental Engineering. (April - May 2022)

COURSES

- Satellite Images Digital Processing, (Instituto de Altos Estudios Espaciales Mario Gulich, Argentina)
- Air quality assessment tools (Universidad Tecnológica Nacional – Facultad Regional La Plata, Argentina)
- Scientific modeling (Universidad Tecnológica Nacional – Facultad Regional Mendoza, Argentina)
- Python Programming (Universidad Nacional de San Martin, Argentina)
- Tools for environmental assessment, monitoring and management (Instituto de Altos Estudios Espaciales Mario Gulich, Argentina)
- Introduction to remote sensing Instituto de Altos Estudios Espaciales Mario Gulich, Argentina)