

# Arturo J. Ossorio Arana

## Ecohydrologist - Data Scientist

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### ABOUT ME

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I'm Arturo and I'm an ecohydrologist strolling the road towards identifying myself as a data scientist. I have a BEng in Civil Engineering and besides having an analytical background I've experience working with diverse stakeholders and managing teams. I'm a generalist, who likes to learn new concepts and techniques, mainly related to water resources and coding. My professional aspiration consists of applying Machine Learning models and using big data to tackle ecohydrological and limnological issues, such as water scarcity, evapotranspiration, water balance and eutrophication of freshwater ecosystems.

### EXPERIENCE

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#### Chief of Technical Department - EcoAqua

**Feb. 2020 - Present | Buenos Aires, Argentina**

- + Diagnosed and treated customer's lakes for algae, weeds and water quality issues.
- + Implemented new budgeting process, based on limnological factors, increasing revenue by > 30%.
- + Worked together with COO, improving KPI performance, mainly client retention rate.

#### Aquatic Specialist - EcoAqua

**Jun. 2017 - Jan. 2020 | Buenos Aires, Argentina**

- + Managed five 2-people teams to ensure all services are completed on schedule.
- + Serviced customer's lakes to provide superior quality and service in the fulfillment of all customer needs.
- + Deployed maintenance routine for vehicles and machinery, decreasing workflow interruptions by 40%.

#### Graduate Teaching Assistant (Course "Applied Hydraulics") - UBA

**Aug. 2017 - Present | Buenos Aires, Argentina**

- + Been assigned to > 100 students, answering queries and grading assignments.
- + Aided professors in examinations and dictated several practical lectures.
- + Syllabus: Pressurized pipe flow, pump selection, water hammer, open channel flow and weir design.

#### Bid/Tender Assistant - Buenos Aires City Government

**Jun. 2016 - May. 2017 | Buenos Aires, Argentina**

- + Cash-flow and finance audit of IBRD-loan WASH project (Arroyo Vega Drainage Tunnel > \$145M).
- + Elaboration of bidding documentation in accordance to IBRD norms and recommendations.

### EDUCATION

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#### Master of Science MSc., Ecohydrology (Part-time)

Universidad Nacional de la Plata (UNLP) - Thesis pending, Expected Graduation Date: 2022

#### Master of Engineering - MEng, Civil Engineer

Universidad de Buenos Aires (UBA) - Graduated 2018

### PROJECTS/PUBLICATIONS

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#### EDA on Argentine lakes and reservoirs dataset

- + Python / Seaborn / EDA / CSV / DataViz
- + Polished, visualized and interpreted results of Argentine lakes dataset.
- + Obtained Carlson's trophic state index (TSI) for waterbodies and presented relevant analysis.

#### Watershed delineation of Chimehuín river, Patagonia, Argentina

- + QGIS / GRASS
- + Developed map of Chimehuín river basin using processed DEM, with lakes and watercourses marked on it.
- + Created as part of dissertation about exotic willow (*Salix fragilis*) invasion of patagonian rivers.