

Dr Alonso Vicente Pizarro Valdebenito BSc MSc PhD

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After completing his BEng and MSc studies at University of Concepcion (Chile), Alonso joined the University of Basilicata, Italy, in September 2015 as a PhD student, supported by the Erasmus Mundus programme (ref. 552129-EM-1-2014-1-IT-ERA MUNDUS-EMA21). Despite his short academic career (he awarded his PhD in March 2019), Alonso has already published several scientific contributions, attracting a significant number of citations. Alonso has a broad interest in hydrology, hydraulics, sediment transport, flood prediction, extreme flood events, stochastic processes in hydrology, environmental monitoring using Unmanned Aerial Systems (UASs), and remote sensing applications for fluvial monitoring. Alonso utilises advanced surveying and flow measurement techniques and laboratory experiments. He is proficient in advanced programming languages (Matlab and Python) and GIS software (QGIS), which he uses to manipulate and analyse complex datasets, regularly publishing research articles in leading international journals. In addition, he speaks four different languages: Spanish (mother tongue), Italian (fluent), English (fluent), and German (basic), and thanks to his experience in different academic environments, he has acquired the capacity to fast adapt to new situations through a proactive and flexible approach. Finally, Alonso has also received a prize for his Master Thesis, and he has already demonstrated the ability to attract funding for his researches from different sources. Currently, Alonso is Assistant Professor of Hydrology and Hydraulic Engineering at Universidad Diego Portales (Chile).

▪ Personal Information

Name: Pizarro Valdebenito, Alonso Vicente

Nationality: Chilean

Date of birth: 27/10/1989

Researcher unique identifiers: SCOPUS Author ID: [16449058000](https://orcid.org/16449058000); ORCID ID: [0000-0002-7242-6559](https://orcid.org/0000-0002-7242-6559)

▪ Work Experience

03/2023 – To date	Start-up creation – Chair of Research and Development division AtMind, Santiago, Chile.
07/2021 – To date	Assistant Professor of Hydrology and Hydraulic Engineering Universidad Diego Portales, Department of Civil Engineering – Santiago, Chile.
10/2020 – 06/2021	Postdoctoral Researcher University of Naples Federico II, Department of Civil, Architectural and Environmental Engineering – Naples 80138, Italy.
10/2019 – 10/2020	Postdoctoral Researcher University of Basilicata, Department of European and Mediterranean Cultures: Architecture, Environment, and Cultural Heritage (DICEM) – Matera 75100, Italy.

▪ Education

- 19/09/2015 – 21/03/2019 **PhD in Cities and Landscapes (Water management and hydrology)**
(final mark 100/100 magna cum laude)
University of Basilicata, Department of European and Mediterranean Cultures:
Architecture, Environment, and Cultural Heritage (DICEM) – Matera 75100, Italy.
- 01/08/2013 – 14/09/2015 **MSc in Civil & Environmental Engineering (final mark 100/100 magna cum laude)**
University of Concepción, Department of Civil Engineering, Concepción 4030000,
Chile.
- 03/03/2008 – 30/04/2012 **BSc in Civil Engineering (final mark 100/100 magna cum laude)**
University of Concepción, Department of Civil Engineering, Concepción 4030000,
Chile.

▪ Study/Research visits

- 21/06/2018 – 07/07/2018 **Visiting PhD researcher**
Institution: University of Concepción, Department of Civil Engineering, Concepción,
Chile.
Goal of the Visit: Modelling bridge pier scour under flood waves considering field
measurements and theoretical aspects.
- 11/09/2017 – 30/03/2018 **Visiting PhD researcher**
Institution: National Technical University of Athens, Department of Water Resources
and Environmental Engineering, Athens, Greece.
Goal of the Visit: Modelling the river discharge process from a stochastic point of view:
Synthetic generation of streamflow values and applications to bridge scour.
- 01/08/2012 – 31/07/2013 **Visiting MSc student (DAAD Scholarship)**
Institution: Technical University of Braunschweig, Braunschweig, Germany.

▪ Fellowships and Awards

- 19/09/2015 – 21/03/2019 **PhD Scholarship, Erasmus Mundus programme** (ref. 552129-EM-1-2014-1-IT-
ERA MUNDUS-EMA21).
- 19/06/2017 – 23/06/2017 **International Summer School Scholarship: “Geocomputation using free and open
source software”**. Three grants out of about 20 participants.
- 11/07/2016 – 15/07/2016 **International Summer School Scholarship: “Applied course on UAVs for
environmental monitoring”**. Three grants out of about 20 participants.
- 14/12/2015 **“Edgar Pino” Award:** Best thesis in the year 2015. Department of Civil Engineering,
University of Concepción. One award per year out of about 70 participants.
- 01/08/2013 – 14/09/2015 **Master Scholarship**, Department of Civil Engineering, University of Concepción.
They are awarded only to the best students, based on their BEng qualifications.

01/08/2012 – 31/07/2013 **Deutscher Akademischer Austausch Dienst (DAAD) Scholarship** (grant ref. A1271553). It is awarded only to the best students over the world.

▪ **Teaching Activities**

2024-02	Hydrological Modelling (Master level). Universidad Diego Portales, Chile.
2024-02	Hydrology (Undergraduate level). Universidad Diego Portales, Chile.
2024-01	Hydrological Modelling (Master level). Universidad Diego Portales, Chile.
2023-02	Hydrological Modelling (Master level). Universidad Diego Portales, Chile.
2023-02	Mountain Hydrology (Master level). Universidad Diego Portales, Chile.
2023-02	Bridge Engineering (Master level). Universidad Diego Portales, Chile.
2023-02	Research Methods for Civil Engineers (Master level). Universidad Diego Portales, Chile.
2023-01	Research Methods for Civil Engineers (Master level). Universidad Diego Portales, Chile.
2023-01	Data Analysis for Geoscience (Master level). Universidad Diego Portales, Chile.
2023-01	Bridge Engineering (Master level). Universidad Diego Portales, Chile.
2022-01	Hydraulic Engineering (Undergraduate level). Universidad Diego Portales, Chile.
2022-01	Hydrological Modelling (Master level). Universidad Diego Portales, Chile.
2021-02	Hydraulic Engineering (Undergraduate level). Universidad Diego Portales, Chile.
2021-02	Water Resources Modelling (Master level). Universidad Diego Portales, Chile.
2020-02	Visiting lecturer in <i>Ingegneria dei sistemi idraulici e dei trasporti</i> (Master level). Course: <i>Bonifiche e Sistemazioni Idrauliche</i>. University of Naples Federico II, Italy.

▪ **Projects**

2024 – to date	FLOOD RESILIENCE (<i>FONDECYT de iniciación</i>). Reference project number: 11240171. <u>Principal Investigator</u> : Alonso Pizarro (Universidad Diego Portales, Chile).
2023 – to date	Microsoft ISV Success program Public Preview. <u>Coordinators</u> : Matías García, Mateo Serna, Alonso Pizarro (AtMind, Chile).
2023 – 2023	ArOC - Sistema de Inteligencia Hidrológica para el Manejo Integrado de Cuencas (<i>SIHMIC</i>). Reference project number: Factoria SEED 2023 (UDP). <u>Coordinator</u> : Claudio Magrini (Universidad Diego Portales, Chile).
2022 – 2023	Early warning system for drought management of ground water surface water systems in Chilean Patagonia. Reference project number: FSEQ210010. <u>Coordinator</u> : Felipe Aguilar Sandoval (Aysen University, Chile).

- 2022 – 2023 ***Monitoreo de Ríos en Patagonia bajo Cambio Acelerado Usando Sensores basados en Análisis de Imágenes, Ultrasonido y Láser.*** Reference project number: FOVI210055. Coordinator: Gerard Olivar Tost (Aysen University, Chile).
- 2022 – 2022 ***Hidráulica Online.*** Reference project number: Concurso Cursos Semipresenciales/Canvas UDP. Coordinator: Prof. Alonso Pizarro (Universidad Diego Portales, Chile).
- 2022 – 2022 ***Bridge Erosion CriticAL Modelling (BE-CALM).*** Reference project number: Proyecto inserción en la investigación UDP (grant no. 1100327026). Coordinator: Prof. Alonso Pizarro (Universidad Diego Portales, Chile).
- 2021 – 2022 ***INNOVAción docenTE Hidraulica (INNOVATE HIDRAULICA).*** Reference project number: INNOVATE HIDRAULICA. Coordinator: Prof. Alonso Pizarro (Universidad Diego Portales, Chile).
- 2020 – 2021 ***An integrative information aqueduct to close the gaps between global satellite observation of water cycle and local sustainable management of water resources (iAqueduct).*** Reference project number: iAqueduct. Coordinator: Prof. Zhongbo (Bob) Su (University of Twente, Netherlands).
- 2018 – 2022 ***Harmonisation of UAS techniques for agricultural and natural ecosystems monitoring (HARMONIOUS).*** Reference project number: CA COST Action CA16219. Coordinator: Prof. Salvatore Manfreda (University of Naples Federico II, Italy).
- 2015 – 2019 ***Euro-Latin America partnership in natural Risk mitigation and protection of the Cultural Heritage (ELARCH).*** Coordinator: Prof. Michelangelo Laterza (University of Basilicata, Italy).
- 2018 ***Monitoring of the infiltration state of Soils in Semiarid Environments*** (Cooperation project between Italy and Iran funded by CRUI, 2017). Visiting researcher at Ferdowsi University of Mashhad, Mashhad, Iran. Coordinator: Prof. Salvatore Manfreda (University of Naples Federico II, Italy).
- 2017 – 2018 ***Bridge Pier Scour Under Flood Waves.*** Reference project number: Fondecyt 1150997. Coordinator: Prof. Oscar Link (University of Concepcion, Chile).

▪ Conference Organisation

- First young Chilean hydrology days. January 08, 2024, Santiago, Chile.
- Second congress of eco-hydrology for Latin America and the Caribbean national conference. November 15-18, 2023, Santiago, Chile
- Convener of EGU 2023 session: “*HS1.1.2 Advances in river monitoring and modelling for a climate emergency*”.

- Convener of EGU 2022 entitled “*HS1.1 – Advances in river monitoring and modelling for a climate emergency: data-scarce environments, real-time approaches, inter-comparison of innovative and classical frameworks, uncertainties, harmonisation of methods and good practices*”.
- Convener of EGU 2021 session entitled “*HS1.1.2 – Advances in river monitoring and modelling for a climate emergency: data-scarce environments, real-time approaches, inter-comparison of innovative and classical frameworks, uncertainties, harmonisation of methods and good practices*”.
- Primary convener of EGU 2020 session entitled “*HS1.1.4 – Advances in river monitoring and modelling: data-scarce environments, real-time approaches, Inter-comparison of innovative and classical frameworks, uncertainties, Harmonisation of methods and good practices*”.

▪ **Invited Talks**

- Keynote speaker at the international conference Gravel Bed Rivers 9, session 12: New tools for advanced studies of gravel-bed rivers. Title of the talk “*The use of innovative technology for fluvial monitoring*” (13th January 2023. Villarrica, Chile).
- Keynote speaker at *XVI Jornadas de Hidráulica Francisco Javier Domínguez*, 17-18 November 2022, Santiago, Chile.
- Presentation at webinar organised by the EU-COST *HARMONIOUS* project on “*Flood ExtReme velOCity Estimations (FEROCE): Seeding metrics to image-velocimetry performances*” (June 4th 2020) <https://t.co/BkAMWfD5BZ?amp=1>

▪ **Professional Society Memberships**

- Member of the European Geophysical Union (EGU).
- Member of the International Association of Hydrological Sciences (IAHS), and friend of the Measurement and Observations in the 21st Century (MOXXI) group.
- Member of the Italian Hydrological Society (SII-IHS).
- Member of the Chilean Society of Hydraulic Engineering (SOCHID).
- Member of the International Association for Bridge Maintenance and Safety (IABMAS).

▪ **Reviewer**

- Natural Hazards (Springer)
- Canadian Journal of Civil Engineering (Canadian Science Publishing).
- Engineering Structures (Elsevier).
- Environmental Fluid Mechanics (Springer).
- Hydrological Sciences Journal (Taylor and Francis).
- Hydrology (MDPI).
- Journal of Hydrology (Elsevier).
- Remote Sensing (MDPI).
- River Research and Applications (Wiley).
- Water (MDPI).

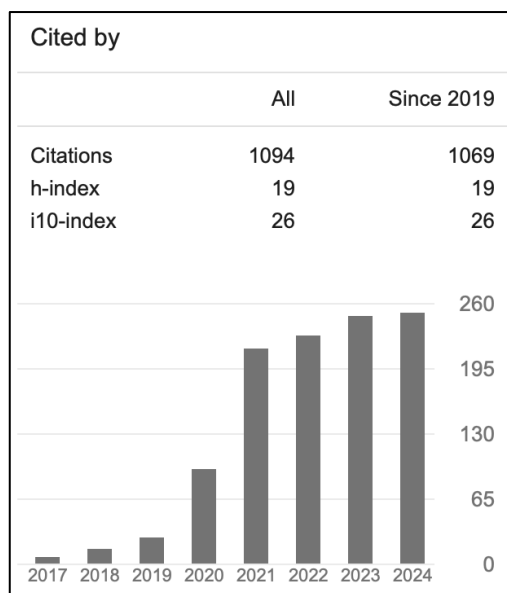
▪ **Editorial Board and Guest Editor**

- Member of the Editorial Board of Frontiers in Remote Sensing (2020 – to date).
- Member of the Editorial Board of Drones and Autonomous Vehicles (2022 – to date).
- Guest Editor, Special issue: "The Use of Unoccupied Aerials Systems and Vehicles for Precision Agriculture": https://www.frontiersin.org/research-topics/37962/the-use-of-unoccupied-aerials-systems-and-vehicles-for-precision-agriculture?utm_source=F-RTM&utm_medium=TED1&utm_campaign=PRD_TED1_T1_RT-TITLE
- Guest Editor, Special issue: "Advances in River Monitoring": https://www.mdpi.com/journal/hydrology/special_issues/61A611C18A

▪ **Other activities**

- Part of the expert panel of AQAS international accreditation of universities (2023: Civil Engineering Programme of Universidad San Sebastián, Chile).

▪ **List of Publications** (including citations from [GoogleScholar](https://scholar.google.com/) - updated on 10/09/2024): **h-index = 19**



International Journals:

1. **Pizarro, A.**, et al. "Past, present and future of the Hurst-Kolmogorov dynamics in Stochastics: A bibliometric analysis of the last 50 years in water resources". Journal of Hydrology (accepted).
2. **Pizarro, A.** & Jorquera, J. (2024). "Advancing objective functions in hydrological modelling: integrating knowable moments for improved simulation accuracy". Journal of Hydrology, 131071, <https://doi.org/10.1016/j.jhydrol.2024.131071>
3. **Pizarro, A.**, et al. (2024). "The use of Unmanned Aerial Systems for river monitoring: A bibliometric analysis during the last 25 years". Hydrology, 11(6), 80, <https://doi.org/10.3390/hydrology11060080>
4. Pinto, F., **Pizarro, A.**, et al. (2024) "Seismic fragility analysis of simply supported bridges considering uncertainty in scour condition". Structures, 64, 106570, <https://doi.org/10.1016/j.istruc.2024.106570>

5. Petermann-Rocha, F., **Pizarro, A.**, et al. (2024). “*Anthropometric evaluation through images: findings from the SCANNER software package*”. Nutrition, 125, 112499, <https://doi.org/10.1016/j.nut.2024.112499>
6. Jorquera, J. & **Pizarro, A.** (2023). “*Unlocking the potential of BlueCat: Enhancing runoff predictions in arid and high-altitude regions*”. Hydrological Processes, 37(12), e15046, <https://doi.org/10.1002/hyp.15046>
7. Acuña, P. & **Pizarro, A.** (2023). “*Can continuous simulation be used as an alternative for flood regionalization? A large sample example from Chile*”. Journal of Hydrology, 626, 130118, <https://doi.org/10.1016/j.jhydrol.2023.130118>
8. García, M., Alcayaga, H., & **Pizarro, A.** (2023). “*Automatic Segmentation of Water Bodies Using RGB Data: A Physically Based Approach*”. Remote Sensing, 15(5), 1170, <https://doi.org/10.3390/rs15051170>
9. Faúndez, M., **Pizarro, A.** et al. (2023). “*Sustainability of water transfer projects: A systematic review*”. Science of The Total Environment, 160500, <https://doi.org/10.1016/j.scitotenv.2022.160500>
10. **Pizarro, A.**, Dimitriadis, P. et al. (2022). “*Stochastic Analysis of the Marginal and Dependence Structure of Streamflows: From Fine-Scale Records to Multi-Centennial Paleoclimatic Reconstructions*”. Hydrology, 9(7), 126, <http://dx.doi.org/10.3390/hydrology9070126>
11. **Pizarro, A.**, Dal Sasso, S. F., & Manfreda, S. (2022). “*VISION: VIdeo StabilisatION using automatic features selection for image velocimetry analysis in rivers*”. SoftwareX, 19, 101173, <http://dx.doi.org/10.1016/j.softx.2022.101173>
12. Barraza-Moraga, F., **Pizarro, A.** et al. (2022). “*Estimation of Chlorophyll-a Concentrations in Lanalhue Lake Using Sentinel-2 MSI Satellite Images*”. Remote Sensing, 14(22), 5647, <http://dx.doi.org/10.3390/rs14225647>
13. Bello, D., **Pizarro, A.** et al. (2022) “*Influence of Dam Breach Parameter Statistical Definition on Resulting Rupture Maximum Discharge*”, Water, 14(11), 1776, <https://doi.org/10.3390/w14111776>
14. Tubaldi, E., **Pizarro, A.** et al. (2022) “*Invited perspectives: Challenges and future directions in improving bridge flood resilience*”, Nat. Hazards Earth Syst. Sci., 22, 795–812, <https://doi.org/10.5194/nhess-22-795-2022>
15. **Pizarro, A.** et al. (2022) “*Relative importance of parameters controlling scour at bridge piers using the new toolbox ScourAPP*”. Computers & Geosciences, 163(105117), <https://doi.org/10.1016/j.cageo.2022.105117>
16. Link, O. & **Pizarro, A.** (2022) “*Discussion of “Estimation of Exceedance Probability of Scour on Bridges Using Reliability Principles”*”, Journal of Hydrologic Engineering (ASCE), [https://doi.org/10.1061/\(ASCE\)HE.1943-5584.0002188](https://doi.org/10.1061/(ASCE)HE.1943-5584.0002188)
17. Paridad, P., **Pizarro, A.** et al. (2022) “*Estimation of soil moisture from UAS platforms using RGB and thermal imaging sensors in arid and semi-arid regions*”. ACTA Horticulturae, 1335(42):339-348, <https://doi.org/10.17660/ActaHortic.2022.1335.42>
18. Acharya, B. S., **Pizarro, A.** et al. (2021) “*Unmanned Aerial Vehicles in Hydrology and Water Management: Applications, Challenges, and Perspectives*”. Water Resources Research, 57(11), <https://doi.org/10.1029/2021WR029925>
19. Ljubičić, R., **Pizarro, A.** et al. (2021) “*A comparison of tools and techniques for stabilising unmanned aerial system (UAS) imagery for surface flow observations*”, Hydrol. Earth Syst. Sci., 25, 5105–5132, <https://doi.org/10.5194/hess-25-5105-2021>
20. Dal Sasso, S. F., **Pizarro, A.**, Manfreda, S. (2021) “*Recent Advancements and Perspectives in UAS-Based Image Velocimetry*”. Drones, 5(3), 81, <https://doi.org/10.3390/drones5030081>

21. Dal Sasso, **Pizarro, A.** et al. (2021) "*Increasing LSPIV performances by exploiting the seeding distribution index at different spatial scales*". Journal of Hydrology, 598, 126438. <https://doi.org/10.1016/j.jhydrol.2021.126438>
22. Petermann-Rocha, F., **Pizarro, A.** et al. (2020) "*Optimal cut-off points for waist circumference in the definition of metabolic syndrome in Chile*". Public Health Nutrition, 23(16), <http://dx.doi.org/10.1017/S1368980020001469>
23. Petermann-Rocha, F., **Pizarro, A.** et al. (2020) "*Is waist-to-height ratio a better predictor of hypertension and type 2 diabetes than body mass index and waist circumference in the Chilean population?*". Nutrition, <http://dx.doi.org/10.1016/j.nut.2020.110932>
24. **Pizarro, A.** et al. (2020) "*Identifying the optimal spatial distribution of tracers for optical sensing of stream surface flow*". Hydrology and Earth System Sciences (HESS), <https://doi.org/10.5194/hess-24-5173-2020>
25. **Pizarro, A.**, Dal Sasso, S. F., Manfreda, S. (2020) "*Refining image-velocimetry performances for streamflow monitoring: Seeding metrics to errors minimisation*". Hydrological Processes; 1–9. <https://doi.org/10.1002/hyp.13919>
26. Dal Sasso, S. F., **Pizarro, A.** et al. (2020) "*Metrics for the Quantification of Seeding Characteristics to Enhance Image Velocimetry Performance in Rivers*". Remote Sensing, 12(11), 1789; <https://doi.org/10.3390/rs12111789>
27. Perks, M., **Pizarro, A.** et al. (2020) "*Towards harmonisation of image velocimetry techniques for river surface velocity observations*". Earth Syst. Sci. Data, 12, 1545–1559, <https://doi.org/10.5194/essd-12-1545-2020>
28. Manfreda, S., **Pizarro, A.** et al. (2020) "*Potential advantages of flow-area rating curves compared to classic stage-discharge-relations*". Journal of Hydrology, 124752, <https://doi.org/10.1016/j.jhydrol.2020.124752>
29. **Pizarro A.**, Manfreda, S., Tubaldi, E. (2020) "*The Science behind Scour at bridge Foundations: A Review*". Water, 12(2), 374, <https://doi.org/10.3390/w12020374>
30. Pearce, S., **Pizarro, A.** et al. (2020) "*An Evaluation of Image Velocimetry Techniques under Low Flow Conditions and High Seeding Densities Using Unmanned Aerial Systems*". Remote Sensing, 12(2), 232, <https://doi.org/10.3390/rs12020232>
31. Link, O., **Pizarro, A.** et al. (2020) "*Local Scour and Deposition at Bridge Piers during Floods*". Journal of Hydraulic Engineering, 146(3), 04020003, [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001696](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001696)
32. **Pizarro, A.** & Tubaldi, E. (2019). "*Quantification of modelling uncertainties in bridge scour risk assessment under multiple flood events*". Geosciences, 9(10), 445, <https://doi.org/10.3390/geosciences9100445>
33. Gheybi, F., **Pizarro, A.** et al. (2019) "*Soil Moisture Monitoring in Iran by Implementing Satellite Data into the Root-Zone SMAR Model*" Hydrology, <https://doi.org/10.3390/hydrology6020044>
34. Manfreda, S., Link, O., **Pizarro, A.** (2018) "*A Theoretically Derived Probability Distribution of Scour Depth*". Water 10.11 (2018): 1520, <https://doi.org/10.3390/w10111520>
35. Dal Sasso, S. F., **Pizarro, A.** et al. (2018) "*Exploring the optimal experimental setup for surface flow velocity measurements using PTV*", Environmental Monitoring and Assessment, 190(8), 460; <https://doi.org/10.1007/s10661-018-6848-3>
36. **Pizarro, A.** et al. (2017) "*BRISENT: An entropy-based model for bridge-pier scour estimation under complex hydraulic scenarios*". Water, 9(11), 889; <https://doi.org/10.3390/w9110889>

37. **Pizarro, A.** et al. (2017) "*Dimensionless Effective Flow Work for Estimation of Pier Scour Caused by Flood Waves*". Journal of Hydraulic Engineering; [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001295](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001295)
38. Link, O., **Pizarro, A.** et al. (2017) "*A model of bridge pier scour during flood waves*". Journal of Hydraulic Research; <https://doi.org/10.1080/00221686.2016.1252802>

National Journals:

1. Montiel, J., **Pizarro, A.** et al. (2023). "*En búsqueda de una salud sostenible en Chile: rol de la investigación interdisciplinaria*". Rev Med Chile; 150: 1689-1692. (Letter to the Editor), <http://www.revistamedicadechile.cl/ojs/index.php/rmedica/article/view/10412>
2. **Pizarro, A.** & Link, O. (2021). "*ScourAPP: un software de código abierto para docencia en socavación local*". Revista SOCHID, 36, 1.

Book Chapters:

1. **Pizarro, A.** et al. (2024) "*Urban river management by innovative monitoring*", in *Managing Urban Rivers: From planning to practice* edited by Victor R. Shinde; <https://doi.org/10.1016/B978-0-323-85703-1.00001-8>
2. Strelnikova, D., **Pizarro, A.** et al. (2023) "*River flow monitoring with UAS*", in *Unmanned Aerial Systems for Monitoring Soil, Vegetation, and Riverine Environments* edited by Salvatore Manfreda & Eyal Ben-Dor; <https://www.elsevier.com/books/unmanned-aerial-systems-for-monitoring-soil-vegetation-and-riverine-environments/manfreda/978-0-323-85283-8>
3. Bertalan, L., **Pizarro, A.** et al. (2023) "*Monitoring of river channel dynamics by UAS*", , in *Unmanned Aerial Systems for Monitoring Soil, Vegetation, and Riverine Environments* edited by Salvatore Manfreda & Eyal Ben-Dor; <https://www.elsevier.com/books/unmanned-aerial-systems-for-monitoring-soil-vegetation-and-riverine-environments/manfreda/978-0-323-85283-8>
4. Manfreda, S., **Pizarro, A.** et al. (2019) "*New insights offered by UAS for river monitoring*", in *Applications of Small Unmanned Aircraft Systems: Best Practices and Case Studies* edited by J. B. Sharma; <https://doi.org/10.1201/9780429244117>

Datasets:

1. **Pizarro, A.** et al. (2024). "*Data of "Past, present, and future of the Hurst-Kolmogorov dynamics in Stochastics: A bibliometric analysis of the last 50 years in water resources"*", <https://doi.org/10.17605/OSF.IO/45V3W>
2. **Pizarro, A.** et al. (2024). "*Data of "The Use of Unmanned Aerial Systems for River Monitoring: A Bibliometric Analysis Covering the Last 25 Years"*", <https://doi.org/10.17605/OSF.IO/YPNA6>
3. **Pizarro, A.** et al. (2020) "*Data on spatial distribution of tracers for optical sensing of stream surface flow*", <https://doi.org/10.5281/zenodo.3761859>

Codes:

1. **Pizarro, A.** & Jorquera, J. (2024) "*Data, codes and results for "Advancing objective functions in hydrological modelling: integrating knowable moments for improved simulation accuracy"*", <https://doi.org/10.17605/OSF.IO/J75PT>

2. **Pizarro, A.** et al. (2021) “*ScourAPP: A Toolbox for Local Scour and Deposition at Bridges during Floods*”, <https://doi.org/10.17605/OSF.IO/VDB9N>
3. **Pizarro, A.** et al. (2020) “*VISION: Video Stabilisation using automatic features selection*”, <https://doi.org/10.17605/OSF.IO/HBRF2>
4. **Pizarro, A.** et al. (2020) “*Identifying the Optimal Spatial Distribution of Tracers for Optical Sensing of Stream Surface Flow*”, <https://www.doi.org/10.17605/OSF.IO/8EGQW>

Conferences:

1. Bartola, M., **Pizarro, A.** et al. “*REHYDRATE - an international HELPING working group to REtrieve historical HYDrologic dATa and Estimates*”, EGU General Assembly Conference: EGU 2024.
2. Pinto, F.; **Pizarro, A.** et al. “*Efecto de la socavación local en la respuesta sísmica de puentes viales*”, ACHISINA 2023.
3. Dal Sasso, S., **Pizarro, A.** et al. “*Image-based velocity estimations under different seeded and unseeded river flows*”, EGU General Assembly Conference: EGU 2023.
4. Dal Sasso, S., **Pizarro, A.** et al. “*Twenty years of hydrological observations at Fiumarella of Corleto basin: experimental data, analysis and modeling*”, EGU Galileo Conference, 2023.
5. Dal Sasso, S. F., **Pizarro, A.** et al. “*Techniche ottiche PTV e LSPIV per il monitoraggio fluviale: Una applicazione al fiume Basento*”, XXXVII Convegno Nazionale di Idraulica e Costruzioni Idrauliche, Reggio Calabria, September, 2022.
6. Dal Sasso, S. F., **Pizarro, A.** et al. “*VISION: un software open source di stabilizzazione delle immagini da sapr per il monitoraggio idrologico dei fiumi*”, XXXVII Convegno Nazionale di Idraulica e Costruzioni Idrauliche, Reggio Calabria, September, 2022.
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