

University Academic Curriculum Vitae

Personal information



Name: **Giuseppe Roberto Pisaturo**
E-Mail: **giusepperoberto.pisaturo@hotmail.com**

Education since leaving school

- 2017 PhD in Civil, Environmental and Mechanical Engineering, University of Trento. Main topics: hydropower plants and interaction with ecology, protection infrastructures and methods for reducing the impacts downstream of hydropower plants.
- 2012 Laurea Magistrale in Ingegneria per l'Ambiente ed il Territorio; Università degli Studi di Trento (110/110 with honour)
- 2010 Laurea Triennale in Ingegneria per l'Ambiente ed il Territorio; Università degli Studi di Trento (103/110)

Present appointment

- Researchers with a fixed-term contract (RTD-A)
- start of appointment: 15/02/2021
- Level of appointment (in national / international context): RTD-A with PhD
- Employer: Free University of Bozen-Bolzano
- The main research topic is the interaction of hydropower plants with the sediment dynamics and the environment. Moreover, the research regards different aspects: sediment flushing, hydropeaking, human safety, surge tanks, turbines, water supply system (WSS) and energy recovery from WSS. Dr. Pisaturo performs laboratory and field experiments also using complex laboratory systems and techniques such as PIV, LDA, PDA, etc.

Professional experience

From / to	Job title	Name of academic Institution	Academic level	responsibilities
02/2018 – 01/2021	Researchers with a fixed-term contract (RTD-A)	Free University of Bozen-Bolzano	PhD	Researcher involved in the interaction of hydropower plants with the sediment dynamics and the environment. The research regarded different aspects: sediment flushing, hydropeaking, human safety, surge tanks, turbines, water supply system (WSS) and energy recovery from WSS.
01/2017 – 12/2017	Research fellow	University of Trento	PhD	Researcher involved in water supply systems, sediment transport in hydroelectric contexts, hydropower plants and effects of hydropower production on the ecosystem (AI-ALPEN)
11/2013 – 12/2013	Collaborator of hydraulic laboratory of Trento	University of Trento	Master level	Hydraulic sector expert: laboratory experiments and research on turbines
07/2013 – 08/2013	Collaborator of Ing. Garzon		Master level	Hydraulic and energy engineer: hydropower plants design

03/2013 – 06/2013	Collaborator of Engineering office SWS Trento		Master level	Hydraulic and energy engineer: hydropower plants design
11/2012 – 02/2013	Driver school assistant			Assistant

Awards received

Winner of the prize “Gino Bortollon” for the best master thesis for the "Environment" section organized by ETRA SpA (Energia Territorio Risorse Ambientali).

Winner of Best Poster Prize at IDRA2016 for the sector “Dinamiche acqua-società: sviluppo sostenibile e gestione del territorio”. Poster title: “Experimental analysis of the interaction between hydroelectric sluice gates and sediment transport”.

Experience in academic teaching

Most of the teaching were held in English within Master, Post-graduate and PhD Programs. In detail:

- 2021/2022
 - University of Bozen-Bolzano and University of Trento. Environmental Fluid Mechanics/Hydropower Plants. Under-graduate. 10 hours in progress
 - University of Bozen-Bolzano and University of Trento. Hydropower and wind power systems. Under-graduate. 30 hours in progress
 - University of Bozen-Bolzano. Advanced application of fluid mechanics. PhD. 10 hours in progress.
- 2020/2021
 - University of Bozen-Bolzano and University of Trento. Environmental Fluid Mechanics/Hydropower Plants. Under-graduate. 10 hours
 - University of Bozen-Bolzano and University of Trento. Hydropower and wind power systems. Under-graduate. 30 hours
 - University of Bozen-Bolzano. Advanced application of fluid mechanics. PhD. 10 hours
 - University of Bozen-Bolzano. Applications of fluid mechanics to energy engineering. Under-graduate. 20 hours.
 - University of Bozen-Bolzano. Realizzazione e manutenzione delle opere di difesa. Post-graduate. 22 hours
- 2019/2020
 - University of Bozen-Bolzano and University of Trento. Environmental Fluid Mechanics/Hydropower Plants. Under-graduate. 15 hours
 - University of Bozen-Bolzano and University of Trento. Hydropower and wind power systems. Under-graduate. 25 hours
 - University of Bozen-Bolzano. Advanced application of fluid mechanics. PhD. 20 hours
 - University of Bozen-Bolzano. Advanced measurement Techniques and Experimental Research. PhD. 23 hours.
- 2018/2019
 - University of Bozen-Bolzano and University of Trento. Environmental Fluid Mechanics/Hydropower Plants. Under-graduate. 25 hours.
 - University of Bozen-Bolzano and University of Trento. Hydropower and wind power systems. Under-graduate. 16 hours.
 - University of Bozen-Bolzano. Applications of fluid mechanics to energy engineering. Under-graduate. 11 hours.
 - University of Bozen-Bolzano. Valutazione ambientale degli interventi di mitigazione. Post-graduate. 8 hours.
 - University of Bozen-Bolzano. Valutazione del rischio idro-geologico. Post-graduate. 24 hours

- University of Bozen-Bolzano. Advanced application of fluid mechanics. PhD. 8 hours.
- 2017/2018
 - University of Trento. Progetto di acquedotti e fognature. Under-graduate. 10 hours.
 - University of Bozen-Bolzano. Applications of fluid mechanics to energy engineering. Under-graduate. 26 hours.
 - University of Bozen-Bolzano and University of Trento. Hydropower systems. Under-graduate. 10 hours.
 - University of Bozen-Bolzano. Advanced application of fluid mechanics. PhD. 10 hours.
- 2015/2016
 - University of Trento. Acquedotti e Fognature. Under-graduate. 10 hours.

Bachelor and Master Thesis Supervision

- Rebecca Scuncio. Analisi preliminare e modellazione del trasporto solido del tratto terminale del Rio Fago (Bolzano, Italia) per la mitigazione del rischio idraulico. 2021. Supervisor Dr. Giuseppe Roberto Pisaturo. Master universitario di II livello "Gestione sostenibile del rischio idro-geologico in ambienti montani". Libera Università di Bolzano
- Daniele Gusmerotti. The support of CFD for hydraulic design/verification of hydraulic devices. Applications to practical cases. 2020. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di laurea magistrale in Ingegneria energetica. Corso di laurea interateneo fra Università di Trento e Libera Università di Bolzano
- Ariele Zanfei. Applicazione dell'algorithm genetico NSGA-II per il posizionamento ottimale di PRV e PAT: un caso in studio nella rete di Egna. 2018. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento
- Carolina Busseni. Il modello metabolico applicato agli acquedotti: il caso di studio dell'acquedotto di Laives. 2018. Supervisors Prof. Maurizio Righetti, Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento
- Filippo Zanforlin. Analisi teorico-sperimentale dell'interrimento di un pozzo piezometrico, il caso dell'impianto di Ponte Gardena. 2018. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento
- Angelica Reghellin. Analisi del trasporto solido di sedimenti fini in alvei a matrice grossolana. 2018. Supervisors Prof. Maurizio Righetti, Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento
- Claudio Castellana. Hydraulic hazard management on a creek affected by hydropeaking: the case study of rio Valsura. 2017. Supervisor Prof. Maurizio Righetti. Co-supervisor Prof. Michele Larcher, Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento.
- Domenico Cassanego. Modellazione idraulica di un corso d'acqua alpino, prove di campo e mitigazione ambientale. 2017. Supervisors Prof. Maurizio Righetti, Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria Civile. Università di Trento
- Nicolò Pozzani. Analisi ed ottimizzazione di una turbina ad acqua fluente in alvei torrentizi. Modellazione CFD. 2017. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento
- David Di Pauli. Ottimizzazione e caratterizzazione di sistemi idropotabili in Alto Adige: il caso studio di Laives (BZ). 2017. Supervisors Prof. Maurizio Righetti, Dr.

Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento

- Stefano Cumer. Erosione e trasporto di sedimenti fini in alvei ghiaiosi, alcuni aspetti sperimentali e numerici. 2016. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale - Ingegneria per l'ambiente e il territorio. Università di Trento
- Matteo Antonaci. Il ruolo pervasivo della coesione biologica dei sedimenti: analisi sperimentale del caso del lago di Stramentizzo. 2015. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale – Ingegneria civile. Università di Trento
- Marco Canal. Analisi teorico-sperimentale dell'interazione tra traverse fluviali per la derivazione ad uso idroelettrico e trasporto solido. 2014. Supervisor Prof. Maurizio Righetti. Co-supervisor Dr. Giuseppe Roberto Pisaturo. Corso di Laurea Magistrale – Ingegneria civile. Università di Trento

Other academic responsibilities

At the Free University of Bolzano – Bozen:

- Member of the following commissions at the Faculty of Science and Technology:
 - Selection of a Research Assistant (AR) for the sector ICAR/02 “Metodologie tecnico-economiche per l'analisi scenari disostenibilità energetica a livello urbano - TESES-Urb” – Rector’s Decree 740/2021
 - Selection of a Research Assistant (AR) for the sector ICAR/02 “Metodologie tecno-economiche per lo studio di scenari energetici sostenibili a livello urbano (TESES-Urb)” – Rector’s Decree 435/2020
 - Selection of a Research Assistant (AR) for the sector ICAR/02 “Simulazioni numeriche avanzate e esperimenti del trasporto di particelle anisotrope in flussi turbolenti (ACE)” – Rector’s Decree 512/2020
 - Selection of a Research Assistant (AR) for the sector ICAR/01 “Termo-Fluidodinamica di Sistemi di Conversione per Combustibili Solidi: Strategie di Ottimizzazione (THE-DYSCO) + Analisi di reattori a letto fluidizzato mediante refractive index matching (RIM-FluB) + Segregazione per dimensione e densità in flussi granulari (GraSeg)” – Rector’s Decree 1326/2020
- Member of the commission for Master Degree in Master Energy Engineering LM-30 (2020)
- Member of the commission for Abilitazione alla professione di Ingegnere LM-30 (2019)

Memberships

Member of:

- Gruppo Italiano di Idraulica (GII)
- Young Professional Network for International Association for Hydro-Environment Engineering and Research (YPN-IAHR)

Editorial and referee activities:

- Member of the Reviewer Board of Water journal (MDPI)
- Reviewer for the following scientific journals: Water, Hydrology, Processes, Applied Sciences, Science of the Total Environment, Ecological Engineering.

Research and scholarships

Responsible of the following projects:

Date granted	Award Holder(s)	Funding Body	Title	Amount received
2021-2023	Dr. Giuseppe R. Pisaturo (PI)	Free University of Bolzano - Bozen	Fine Sediment dynamics over Coarse river bed (FiSeCo)	13000 €
2021-2021	Dr. Giuseppe R. Pisaturo (PI)	Contract for research project from Vito Adami	Compare fish habitat model approaches: CaSiMir vs MesoHabsim (MesoCa)	14006 €
2019-2022	Dr. Giuseppe R. Pisaturo (Unit coordinator)	MIUR-PRIN	Advanced Computations and Experiments for anisotropic particle transport in turbulent flows (ACE)	117624 €
2018-2020	Dr. Giuseppe R. Pisaturo (PI)	Free University of Bolzano - Bozen	Human safety assessment on a creek affected by hydropeaking (HSAH)	10500 €

Partner of the following projects:

Date granted	Award Holder(s)	Funding Body	Title
2021-2022	Prof. Maurizio Righetti (PI); Dr. Giuseppe R. Pisaturo (Co-I)	Contract for research project from Ufficio Sistemazione Bacini Montani Sud	Mitigation of the hydraulic hazard and ecological restoration in the stretch of the Adige between Bronzolo and Ora (RAZOR)
2021-2021	Prof. Maurizio Righetti (PI); Dr. Giuseppe R. Pisaturo (Co-I)	Contract for research project from Ingegneri Consulenti Srl(IC)	Sediment management in Sicilia reservoir (SED_SIC)
2021-2021	Prof. Maurizio Righetti (PI); Dr. Giuseppe R. Pisaturo (Co-I)	Contract for research project from Ufficio Sistemazione Bacini Montani Sud	Experimentation on a physical laboratory model to experimentally verify the hydraulic behavior of the current state of the SIII bridle (BZ) (SILL-PM2)
2020-2021	Prof. Maurizio Righetti (PI); Dr. Giuseppe R. Pisaturo (Co-I)	Contract for research project from Comune di Laives	WSS_Laives optimization of the water Supply system of laives (WSS_Laives)
2017-2021	Prof. Maurizio Righetti (PI), Dr. Giuseppe R.	CRC call 2016	Sustainable management of hydroelectric production, Hydropeaking Mitigation: morphological mitigation measures assessment

	Pisaturo (Co-I)		through development of a 3D fluid dynamic model coupled with physical habitat suitability model– HM (HM)
2018-2021	Prof. Maurizio Righetti, Dr. Massimiliano Renzi	ERDF 2014-2020	Hydro Turbines optimization for a sustainable production (TURB_HYDRO)
2016-2020	Dr. Francesca De Serio	Hydralab+	Jets interacting with Vegetation in Rotating Basin (JEVERB)
2014-2020	Prof. Francesco Comiti	EFRE-FESR 2014-2020	Sediment budgeting and planning for rivers in South-Tyrol: from hazard mitigation to environmental restoration (SEDIPLAN-r)

Collaborations:

- Prof. Dr.-Ing. Silke Wieprecht. Institute for Modelling Hydraulic and Environmental Systems. Stuttgart.
- Dr.-Ing. Markus Noack. Institute for Modelling Hydraulic and Environmental Systems. Stuttgart. Paper number: 10.
- With the group of JEVERB project:
 - Dr. Francesca De Serio. Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica. Politecnico di Bari
 - Prof. Michele Mossa Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica. Politecnico di Bari
 - Dr. Joel Sommeria. Laboratoire des Écoulements Géophysiques et Industriels. Grenoble.
 - Prof. Donatella Termini. Dipartimento di Ingegneria. Università di Palermo.
- With the group of PRIN Project:
 - Prof. Alfredo Soldati. Università degli Studi di UDINE
 - Dr. Francisco Alves Pereira. Consiglio Nazionale delle Ricerche
 - Prof. Giovanni Paolo Romano. Università degli Studi di ROMA "La Sapienza"
 - Dr. Francesco Granata. Università degli Studi di Cassino e del Lazio Meridionale

Publications

Journal articles (* corresponding)

1. **Pisaturo, G.R.***, Folegot, S., Menapace, A., Righetti, M. Modelling fish habitat influenced by sediment flushing operations from an Alpine reservoir (2021) Ecological Engineering, 173, art. no. 106439. DOI: 10.1016/j.ecoleng.2021.106439
2. De Serio, F., Goldshmid, R.H., Liberzon, D., Mossa, M., Negretti, M.E., **Pisaturo, G.R.**, Righetti, M., Sommeria, J., Termini, D., Valran, T., Viboud, S. Turbulent jet through porous obstructions under Coriolis effect: an experimental investigation (2021 in press). Experiments in Fluids. In press.
3. Folegot, S., Bruno, M.C., Larsen, S., Kaffas, K., **Pisaturo, G.R.**, Andreoli, A., Comiti, F., Maurizio, R. The effects of a sediment flushing on Alpine macroinvertebrate communities (2021) Hydrobiologia, 848 (17), pp. 3921-3941. DOI: 10.1007/s10750-

4. Tavelli, M., Piccolroaz, S., Stradiotti, G., **Pisaturo, G.R.**, Righetti, M. A new mass-conservative, two-dimensional, semi-implicit numerical scheme for the solution of the Navier-Stokes equations in gravel bed rivers with erodible fine sediments (2020) *Water (Switzerland)*, 12 (3), art. no. 690. DOI: <https://doi.org/10.3390/w12030690>
5. Menapace, A., **Pisaturo, G.R.**, de Luca, A., Gerola, D., Righetti, M. EPANET in QGIS framework: The QEPANET plugin (2020) *Journal of Water Supply: Research and Technology - AQUA*, 69 (1), pp. 1-5. DOI: <https://doi.org/10.2166/aqua.2019.087>
6. Alberizzi, J.C., Renzi, M., Righetti, M., **Pisaturo, G.R.**, Rossi, M. Speed and pressure controls of pumps-as-turbines installed in branch of water-distribution network subjected to highly variable flow rates (2019) *Energies*, 12 (24), art. no. 4738. DOI: <https://doi.org/10.3390/en12244738>
7. Boscheri, W., **Pisaturo, G.R.**, Righetti, M. High-order divergence-free velocity reconstruction for free surface flows on unstructured Voronoi meshes (2019) *International Journal for Numerical Methods in Fluids*, 90 (6), pp. 296-321. DOI: <https://doi.org/10.1002/fld.4723>
8. **Pisaturo, G.R.***, Righetti, M., Castellana, C., Larcher, M., Menapace, A., Premstaller, G. A procedure for human safety assessment during hydropeaking events (2019) *Science of the Total Environment*, 661, pp. 294-305. DOI: <https://doi.org/10.1016/j.scitotenv.2019.01.158>
9. Menapace, A., Avesani, D., Righetti, M., Bellin, A., **Pisaturo, G.R.** Uniformly Distributed Demand EPANET Extension (2018) *Water Resources Management*, 32 (6), pp. 2165-2180. DOI: <https://doi.org/10.1007/s11269-018-1924-6>
10. **Pisaturo, G.R.***, Righetti, M., Dumbser, M., Noack, M., Schneider, M., Cavedon, V. The role of 3D-hydraulics in habitat modelling of hydropeaking events (2017) *Science of the Total Environment*, 575, pp. 219-230. DOI: <https://doi.org/10.1016/j.scitotenv.2016.10.046>
11. Premstaller, G., Cavedon, V., **Pisaturo, G.R.**, Schweizer, S., Adami, V., Righetti, M. Hydropeaking mitigation project on a multi-purpose hydro-scheme on Valsura River in South Tyrol/Italy (2017) *Science of the Total Environment*, 574, pp. 642-653. DOI: <https://doi.org/10.1016/j.scitotenv.2016.09.088>

Conference contributions and proceedings (* oral presentation by Pisaturo)

1. * **Pisaturo, G.R.**, Righetti, M., Castellana, C., Larcher, M., Menapace, A., Premstaller, G. A procedure for human safety assessment during hydropeaking events. (2020). YPN IAHR 2020. ISBN: 978-90-82484-6-63
2. Stradiotti, G., Tavelli, M., **Pisaturo, G.R.**, Righetti, M. Balancy flushing efficiency and duration: proof of concepts. (2020). YPN IAHR 2020. ISBN: 978-90-82484-6-63
3. Rossi, M., Nigro, A., **Pisaturo, G.R.**, Renzi, M. Technical and economic analysis of Pumps-as-Turbines (PaTs) used in an Italian Water Distribution Network (WDN) for electrical energy production (2019) *Energy Procedia*, 158, pp. 117-122. DOI: <https://doi.org/10.1016/j.egypro.2019.01.055>
4. De Serio, F., Armenio, E., Badin, G., Di Leonardo, A., Hilel, R., Liberzon, D., Mossa,

M., Negretti, M.E., **Pisaturo, G.R.**, Righetti, M., Sommeria, J., Termini, D., Valran, T., Vermeulen, B. & Viboud, S. Jets interacting with vegetation in the rotating LEGI platform (2019) Geophysical research abstracts, vol. 21, 16427

5. De Serio, F., Armenio, E., Badin, G., Di Leonardo, A., Hilel, R., Liberzon, D., Mossa, M., Negretti, M.E., **Pisaturo, G.R.**, Righetti, M., Sommeria, J., Termini, D., Valran, T., Vermeulen, B. & Viboud, S. Jet interacting with vegetation in a rotating basin (2019) Proceedings of the HYDRALAB+ Joint User Meeting, Bucharest
6. * **Pisaturo, G.R.**, Righetti, M., Boscheri, W. A 3D numerical model for simulating hydrodynamics downstream of hydropower plants. (2018). IAHR Europe Congress. doi:10.3850/978-981-11-2731-1_107-cd, pp. 593-594
7. * **Pisaturo, G.R.**, Righetti, M. Flushing operations of hydroelectric sluice gates: an experimental analysis. (2018). IAHR Europe Congress. doi: 10.3850/978-981-11-2731-1_377-cd, pp. 539-540
8. * **Pisaturo, G.R.**, Righetti, M., Gabl, R., Zanforlin, F. Sediment entrapment into surge tanks: an experimental study. (2018). IAHR Europe Congress. doi: 10.3850/978-981-11-2731-1_279-cd, pp. 507-508
9. * **Pisaturo, G.R.**, Righetti, M. Sediment Flushing from Reservoir and Ecological Impacts (2018) HIC 2018. 13th International Conference on Hydroinformatics, 3, pp. 1692-1697. URL: <https://easychair.org/publications/paper/D9Fm>, DOI: 10.29007/1fs
10. Zanfei, A., **Pisaturo, G.R.**, Bottazzi, M., Righetti, M. Optimal PRV and PAT location using genetic algorithms: application to Egna water supply system (2018). XXXVI Convegno Nazionale di Idraulica e Costruzioni Idrauliche, Ancona, IDRA2018
11. * **Pisaturo, G.R.**, Righetti, M., Amante, F., Bigliotti, E. Experimental analysis of the interaction between hydroelectric sluice gates and sediment transport (2017) River Sedimentation - Proceedings of the 13th International Symposium on River Sedimentation, ISRS 2016, pp. 1147-1153
12. * **Pisaturo, G.R.**, Righetti, M., Dumbser, M., Noack, M., Schneider, M., Kopecki, I., Cavedon, V. The role of 3D-hydraulics in habitat modelling of hydropeaking events (2016) River Flow - Proceedings of the International Conference on Fluvial Hydraulics, RIVER FLOW 2016, pp. 1999-2005
13. * **Pisaturo, G.R.**, Righetti, M. Experimental analysis of the interaction between hydroelectric sluice gates and sediment transport (2016) XXXV Convegno Nazionale di Idraulica e Costruzioni Idrauliche, Bologna, IDRA2016

Others

Chairman during ISRS 2016 conference in “River morphodynamics” section.

**Publications about
the applicant**

A newspaper article in the Alto Adige (12.03.2019, p 25) entitled “Sicurezza nei fiumi. Una ricerca individua le vie di fuga più scientifiche” has been dedicated to the scientific research “A procedure for human safety assessment during hydropeaking events, Pisaturo et al 2019.”

**Statement of
interest**

Dr. Pisaturo, between the master thesis and the PhD, worked for an engineering office. The projects in which he was involved were the design of hydropower plants. The projects merged the optimization of energy production and the minimization of the environmental impact. This topic was then deeply investigated during the PhD where the candidate studied the interaction between hydropower plant and the downstream habitat. The candidate developed a 3D CFD model based that can be easily converted in 2D model.

Moreover, during the master thesis, the candidate used different CFD model such as Flow3D, Ansys CFD and Basement. The candidate is therefore able to use commercial and academic CFD software.

About the sediment transport topic, the candidate was co-supervisor of master thesis about the sediment flushing phenomena from dams, weirs and the interaction with civil structure such as surge tanks. Moreover, collaborated for the sediment flushing of Stramentizzo lake, Rio di Pusteria lake, Fortezza lake and Soraga lake. Finally, about this topic, he won a Poster Prize at IDRA2016 of the study about the interaction between hydroelectric sluice gates and sediment transport.

After the PhD, Dr. Pisaturo worked as research fellow. The main topic was water supply systems, regarding the optimization of the network, pressure and leakages minimization and energy recovery. He also performed field measurements of flow rates and pressure in the network.

During the present appointment, Dr. Pisaturo focused the research topic is the interaction of hydropower plants with the sediment dynamics and the environment. The research regarded different aspects: sediment flushing, hydropeaking, habitat modelling, human safety, surge tanks and turbines. Moreover, Dr. Pisaturo performs laboratory and field experiments also using complex laboratory systems and techniques such as PIV, LDA, PDA, etc. He participates to the Hydralab+ group with the Jets interacting with Vegetation in Rotating Basin (JEVERB) project. In this occasion Dr. Pisaturo worked in the rotating LEGI platform.

From 2015, Dr. Pisaturo has experience in academic teaching about: water supply systems, hydropower system, fluid mechanics and experimental fluid mechanics.

Language competence

- Italian (native)
- English (B2)
- German (A2)

Driving license

A, B, C, D

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16.

Date 01/10/2021