

1. PERSONAL INFORMATION

DAMIEN BOUFFARD

damien.bouffard@eawag.ch, [@Aphys Eawag](https://www.linkedin.com/in/damienbouffard), <https://orcid.org/0000-0002-2005-9718>

2. EDUCATION

2021 **CAS Leadership** in Sciences, FHNW, CH
2008 **PhD.** Ecole Polytechnique Fédérale de Lausanne, EPFL, Lausanne, CH
2003 **Degree of Advanced Studies** (M. Sc.) in Physical Oceanography. Université de la Méditerranée, Marseille, F
2003 **Engineer**, specialization in hydrodynamics. Centrale Marseille (ex ESIM), F

3. EMPLOYMENT HISTORY

2022- **Associate Professor ad personam**, University of Lausanne, Lausanne, CH
2017- **Group Leader**, Aquatic Physics, Eawag, Kastanienbaum, CH
2012 - 2016 **First assistant**, Aquatic Physics Laboratory (Prof A. Wüest), EPFL, Lausanne, CH
2009 - 2012 **Post-doctoral fellow**, Environmental Fluid Dynamics (Prof L. Boegman), Queen's University, Kingston, On, CA

4. INSTITUTIONAL RESPONSIBILITIES

2022 Eawag Representative for the ETH-Domain action lines on **Responsible Digital Transformation**, CH
2022 - **Associate Professor ad personam**, University of Lausanne, Lausanne, CH
2021 - 2024 **Member of the ETH Open Research Data** (ORD) expert group for research practice, ETH-Domain, CH (*mission: prepare/evaluate calls to develop open research data in the ETH-Domain (budget 15M CHF)*), CH
2021 - 2024 **Member of the Team management** of ENRICH – Sensor. 4 Research Institutes from ETH-Domain, CH (*mission: initiating and implementing sensor-based joint activities*), CH
2018 - 2021 **Lecturer ETHZ**, Zurich, CH
2017- **Member of the Steering committee** LéXPLORE platform, CH
2017- **Head of Aquatic Physics group**, Eawag, CH

5. APPROVED RESEARCH PROJECTS

Year	Title, (funding sources), main PI, Function , (rounded budget)
2022 - 2022	REPRODUCE (EPFL, CH), PI: DB (40k)
2021 - 2022	Alplakes (ESA, EU) PI: DB (225k)
2021 - 2023	Modeling oxygen in Swiss lakes (Eawag, CH), PI: Schmid, DB: Co-PI (300k)
2018 - 2020	DataLakes, (SDSC, CH), PI: DB (450k)
2018 - 2022	Buoyancy driven nearshore transport in lakes, HYPOLimnetic THERmal SiphonS (SNF, CH), PI: DB (500k)
2017 - 2020	Stream and lake water temperature under climate change (FOEN, CH), PI: H. Huwald (EPFL), DB: Co-PI (200k)
2017 - 2019	Water Level, Deep Currents and Waves in Lake Kivu, (LKMP, Rwanda), PI: Deltares, DB: Co-PI (100k)
2016 - 2017	Coupling PHYSics on Lake Onego with Zooplankton and PHYtoplankton, (Feel foundation, CH). PI: DB (70k)
2016 - 2019	Integrated monitoring of ice in selected Swiss lakes (GCOS, CH), PI: M. Baltavias (ETHZ), DB: Co-PI (40k)
2016 - 2018	COupling REMote Sensing, In-Situ and Model. CORESIM (ESA, EU), PI: DB (250k)
2015 - 2016	Satellite Observation of Lakes and Vegetation Environments. (SSO, CH), PI: A. Ivanov (EPFL), DB: Co-PI (100k)
2014 - 2016	Lake Ladoga: Life under the ice. (Feel foundation, CH). PI: A. Wüest (EPFL, CH), DB: Co-PI (200k)

6. SUPERVISION OF JUNIOR RESEARCHERS

Phd students

2022- Wentao **Gong**. Co-supervisor with Prof. Deiner (ETHZ, CH), Ongoing Sept. 2022
2021- Isabel **Herr**. Lake Sentinels. Co-supervisor with Prof. Perga (UNIL, CH). *Ongoing Oct. 2021*
2018-2022 Pascal **Perolo**. CARBOn Cycle of Lake GENeva. Co-supervisor with Prof. Perga (UNIL, CH), awarded PhD thesis.
2018-2022 Tomy **Doda**. Buoyancy driven nearshore transport in lakes, HYPOLimnetic THERmal SiphonS.
2017-2020 Yann **Guenand**. The role of hydrodynamics in carbon cycling in alpine lakes. Co-supervisor with Prof. Perga (UNIL, CH). *Now at EDF F*
2016-2020 Oscar **Sepúlveda Steiner**. Lateral variability of mixing processes in stratified and its ecological implications. Co-supervisor with Prof. Wüest. EPFL. *Now at Eawag*

2015-2019	Theo Baracchini . Integrating information sources for inland waters. A new global framework for lakes modelling and monitoring. Co-supervisor with Prof. Wüest. EPFL. <i>Now at CREALP, Sion.</i>
2014-2018	Vincent Nouchi . Remote sensing of peri alpine lakes. Co-supervisor with Prof. Wüest. EPFL. <i>Now data scientist in industries (CH)</i>
2013-2017	Love Vinnå Ramån . Particle transport in Lake Biel. Co-supervisor with Prof. Wüest. EPFL. <i>Now at Uni. Basel</i>
2013-2017	Robert Schwefel . Oxygen depletion in perialpine lakes. Co-supervisor with Prof. Wüest. EPFL. <i>Now at IGB</i>
2008-2012	Reza Valipour . Lake Erie circulation and benthic boundary layer dynamics. Co-supervisor with Prof. Boegman. Queen's University. <i>Now at Environment Canada.</i>
Post-Doc	
2021-	Abolfazl Irani Rahagi . Coupling 3D models and remote sensing products (AlpLakes)
2020-2021	Artur Safin . Data assimilation for lake 3D hydrodynamic (Datalakes), <i>Now data scientist at Verizon, US</i>
2020-2022	Oscar Sepúlveda Steiner . Bioconvection in Lake Cadagno. (BIOCAD)
2020	Theo Baracchini . Meteolakes, <i>Now at CREALP, Sion.</i>
2018-2020	Cintia Luz Ramón Casanas . Buoyancy driven nearshore transport in lakes, (HYPOTHESYS). <i>Now at Uni. Granada, E.</i>
2018-2020	Love Ramån Vinnå . Evolution of lake water temperature under climate change (CH2018). <i>Now at Uni. Basel, CH</i>

7. TEACHING ACTIVITIES

2019-	Physical limnology , UNIL, Master level, in "Aquatic ecosystems: glaciers, rivers and lakes"
2018-2021	Biogeochemical modeling of sediments, lakes & oceans , ETHZ, Master level, 26h
2017-2019	Physical limnology , UNIGE, field course (Cadagno), Bachelor level, 8h in "Ecologie microbienne et écologie alpine"
2015	Mixing and dispersion in flows dominated by rotation and buoyancy . CISM Udine Italy, Advanced school, 8h
2013 - 2018	Hydrodynamic modelling , EPFL, Master level, 4h-8h in the course "Limnology"

8. MEMBERSHIPS IN PANELS, BOARD / INDIVIDUAL SCIENTIFIC REVIEWING ACTIVITIES

2021-	Topical Editor for Hydrology and Earth System Sciences
2021-	Associate Editor for Aquatic Sciences
2020 - 2021	Topical Editor for the Encyclopedia of Inland Waters (36 chapters)
2020-	Associate Editor for Journal of Great Lakes Research
2018-	Scientific Committee Physical Processes in Natural Waters workshop
2017-	Member International Society of Limnology (SIL)
2017-	Member Association of the Sciences of Limnology and Oceanography (ASLO)

9. ACTIVE MEMBERSHIPS IN SCIENTIFIC SOCIETIES, FELLOWSHIPS IN RENOWNED ACADEMIES

2019-	Member of the steering committee of the Swiss Hydrological and Limnological Society
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Reviewing activities (since 2018):

Journals: Nature, Geophysical Research Letters, Limnology and Oceanography, Water Resources Research, Hydrology and Earth System Sciences, Water Research, Journal of Hydrology, Journal of Geophysical Research, Aquatic Sciences, Scientific Report, Plos One, Journal of Great Lakes Research, Journal of Atmospheric and Oceanic Technology, Atmosphere and Ocean, River Research and Applications, Water Quality Research Journal of Canada, Journal of Limnology,

Funding agencies: Canada (Foundation for innovation x1), Chile (x1), France (x1), Germany (DFG x3),

10. ORGANIZATION OF CONFERENCES

2020-	Co-convener Swiss Geosciences Meeting , Session "Limnology"
2020-	Co-convener European Geoscience Union , Session "Lakes and inland seas in a changing environment"
2018	Co-organizer workshop Physical Processes in Natural Waters , Solothurn, CH, Co-host w Prof. McGinnis

11. PRIZES, AWARD, FELLOWSHIPS

2020	Outstanding reviewer Limnology and Oceanography
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