

Elisa BETEILLE

✉ elisa.beteille@edf.fr

☎ +336 33 96 22 76

PhD student in hydraulics



🏠 1 rue Labelonye, 78400
Chatou, France

Technical skills

- Set up an experiment from the design of the open channel to the acquisition program (Labview) and the disposition of the sensors (ADV, PIV, LSPIV, ect.)
- Model and simulate fluid and especially the propagation of dam break waves (Code_Saturne)
- Perform multidisciplinary laboratory measurements (optical, acoustic, etc.)
- Work and interact as part of an international team of researchers (IAHR Young Professionals Hydro-Environment challenge 2022: Experimental Data Challenge)
- Perform and post-process LSPIV data with Fudaa-LSPIV
- Post-process PIV data with PIVlab and OpenPIV
- Use a programming language (Python, Matlab, Fortran, C/C++, ect.) for data analysis
- Write technical reports (LaTeX, Microsoft Office Suite, ect.)
- Perform bibliographic research in international journals and analyze a scientific article

Education

- From 2021 to 2024 • PhD degree in hydraulics
Ecole des ponts ParisTech Chatou, France
Experimental study of unsteady flows in urbanized areas

- From 2018 to 2021 • Engineering Diploma in Fluid Mechanics, Energetics and Environment in apprenticeship
INP-ENSEEIHToulouse, France

- From 2020 to 2021 • M2 - Fluid dynamics Energetics and Transfers
University Toulouse III Toulouse, France
Double Degree Research Master

- From 2015 to 2018 • Technical Diploma in Physical Measurement Engineering, with the high-level sport status
University Institute of Technology Toulouse, France


Professional experience

- From 2021 to 2024 • Junior researcher in experimental and numerical free surface flow hydraulics
EDF R&D Chatou, France

- From 2018 to 2021 • Thermo-mechanical model using Ansys and laboratory experiment
CONTINENTAL AUTOMOTIVE FRANCE Toulouse, France
◦ Modeling and testing the behavior of a current sensor in its environment
◦ Modeling thermal shock on an in-cylinder pressure sensor

- From April 2018 to June 2018 • Thermo-mechanical simulation using Comsol Multiphysics in internship
CONTINENTAL AUTOMOTIVE FRANCE Toulouse, France


Simulation software

Labview

Code_Saturne

Ansys Mechanical

Comsol Multiphysics

Interests

Theatre practice (2010 - 2021)

Actress in "Ô Dieu", TPN,
Toulouse, France (2019 - 2021)

Swimming (2002-2018)

Intensive practice (3 selections in
French team in 2013 and 2015,
French academic champion in
2014, 2016 and 2017)

Languages

French

Native tongue

English

fluent (C1+ level)