

Pr. Anne-Claire BENNIS



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Caen, France

JOB EXPERIENCE

Sept. 2021 – Mar. 2024 <i>Caen, France</i>	UNIVERSITY OF CAEN NORMANDY (France) , Research & Education <u>Full professor in Fluid Mechanics and Coastal Dynamics (CNU 60)</u> - Visiting professor at VIMS (USA) from February to May 2024
Sept. 2012 – Aug. 2021 <i>Caen, France</i>	UNIVERSITY OF CAEN NORMANDY (France) , Research & Education <u>Assistant and Associate professor in Fluid Mechanics and Coastal Dynamics</u>
Jan. 2009 – Aug. 2012 <i>Brest & Bordeaux, France</i>	IFREMER/CNRS/UNIVERSITY OF WESTERN BRITTANY (France) , Research <u>Post-doctoral researcher in Coastal oceanography</u>
Oct. 2005 – Dec. 2008 <i>Rennes, France</i>	UNIVERSITY OF RENNES (France) , Research & Education <u>PhD student in applied mathematics and oceanography</u>

EDUCATION

2017 <i>Caen, France</i>	Habilitation thesis in Physics (French accreditation for supervising research) University of Caen Normandy, France
2008 <i>Rennes, France</i>	PhD in Applied mathematics University of Rennes, France
2005 <i>Poitiers, France</i>	Msc in Computational mechanics University of Poitiers, France

LANGUAGES

English: Advanced, **French:** Native

ADMINISTRATIVE KEY FEATURES

Associate editor for Frontiers in Marine Science, section: Coastal Ocean Processes, since 2024.
Deputy director of the **CNRS Research federation "SCALE"** (FR CNRS 3730) since 2022.
Director of the 2nd year of the Msc program in Computational mechanics of U. Caen since 2020.
Appointed and delegated member of the research and development committee of the French agency for the development of marine renewable energy since 2015.
Co-head of the numerical modelling team of the M2C lab. since 2021.
Co-head of the hydro-morpho-sedimentary process team of the M2C lab. (2016-2020)
Member of 10 **recruitment committees** for the hiring of assistant/associate/full professors.
Elected member of the board of directors of M2C (2014-2020) and IRMAR (2006-2008) laboratories.
Manager and administrative responsible of the research engineers in coastal numerical modelling at M2C lab.
Local responsible for the CNRS research networks "GDR EMR" (2015-2020), "Eol-EMR" (2021-2026) et "CROCO" (2018-2023).
Head and administrative responsible of the Cotentin HF radar site since 2015.

SCIENTIFIC KEY FEATURES

Principal investigator and coordinator of the Cotentin HF radar site since 2015. Two phase-array WERA radars. **Principal investigator** and coordinator of 3 national research projects; **local scientific manager** for 10 research projects.

Participation to 25 research projects, including 5 international, 17 national and 3 local projects for a total budget of 166 020 k€.

Lead of 2 national projects supported by the French Navy (SHOM):

- **DEMLIT** (Modeling of the hydro-sedimentary cross-shore exchanges for the filling of estuaries in English Channel) – 2020-2025. Total budget: 412 000€

- **MORPHODUNES** (3D hydro-morpho-sedimentary modeling of sand dune migration on the continental shelf) - 2023-2026. Total budget: 299 000€

Lead of 1 national project supported by the French Agency for research (ANR):

- **HYD2M** (Impact of wave-current interactions and winter storms on the tidal energy estimate in Alderney Race) – 2016-2019. Total budget: 1 753 000€

Local responsible for one national big project, among others, supported by the French Agency for the environment (ADEME):

- **FLOWATT** (Implementation of a pilot tidal farm in Alderney Race) – 2025-2029. Total budget: 137 000 k€

- **Author of 34 papers in referenced journals, 25 papers in conference proceedings**, 2 chapters in book, **Co-editor of 2 books**.

- **Attendee in 86 conferences and seminars**, including 42 international conferences.

- **Reviewer** for several international journals of the oceanographic community (e. g. Ocean Modelling, Ocean Dynamics, Coastal Engineering).

- **President** of the scientific committee of the COAST2023 conference; Head of the international summer school ISSOR'17 and co-head of ISSOR'19; Member of the scientific committee of the new lab "Verti'Lab" ;

- **Scientific officer** in charge of physical oceanography at the French-Japanese society of Oceanography and member of the scientific committee.

- Involved in the scientific or organization committee of 5 international conferences and 2 international summer school.

- **Director of 7 PhD thesis** whose 3 already defended; Member of jury **14 PhD Defenses and 2 Habilitation Thesis Defenses**.

- **Supervisor of 13 post-doctoral** researchers for a cumulative duration of 221 months (equivalent to ~ 6 PhD of 3 years).

FIELD EXPERIENCES

In charge of high-frequency radar field instrumentation at the Gourey and Jobourg sites (Normandy, France), for real-time measurement of the hydrodynamics of Alderney Race since 2015.

- drafting of technical and commercial instructions,

- responsible for the call for tenders,

- responsible for and co-drafting of applications for authorization to work on classified sites and building permits,

- site supervision, data processing, scientific achievements, publications.

TEACHING

Teaching at the University of Caen Normandie: **220 h per year** since 2012 except for 3 years (2015-2016 and 2023-2024 and 2024-2025) limited to 96 h per year.