DR. VICTOR POZZOBON

PhD research scientist leading numerous investigations in microalgal biotechnology.
My goal is to help microalgae to realise the full extend of their promises.
To do so, I deploy both experimental and numerical tools. The current focus of my research is the increase of culture cell density in photo and/or heterotrophic mode.

CONTACT

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SOFT SKILLS

Team leading

Empathy ●●●●○
Decision making ●●●●○
Problem solving ●●●●○
Empowerment ●●●○○

Languages

English ●●●●●
French ●●●●●
German ●●○○○
(100 % Duolingo course completion)

TECHNICAL SKILLS

Numerics

Programming ●●●●○
(e.g. Python, C++, Bash, …)
CFD ●●●●●
(OpenFOAM, Fluent, Comsol)
Visualisation ●●●●○
Machine Learning ●●●○○

Biotechnology

Basic lab techniques ●●●●○
Advanced lab techniques ●●●○○
(Flow cytometry, PAM, …)
Modelling ●●●●●
Microalgae ●●●●○

CERTIFICATES - MOOCS

Data analysis - 2020
HPC Python - 2020
Management & leadership - 2020
French cuisine - 2019
Numerical analysis - 2017
Mathematical biostatistics - 2015
Food & nutrition - 2015
Athletes physiology - 2015
Human physiology - 2014

⚙ WORK HISTORY

📅 October 2020 - To date   **Head of the modelling team**
📍 Chair of Biotechnology
CentraleSupélec, Pomacle, France
Managing a team of 5 people. Structuring research projects and acquiring funding
Key driver: implementing the digital twin concept in microorganisms biotechnology

📅 November 2015 - October 2020   **Research engineer**
📍 Chair of Biotechnology
CentraleSupélec, Pomacle, France
Principal Investigator on microalgae/light interaction. Numerous involvement in biological experiments and associated modelling initiatives
Key realisations: full scale CFD modelling of a photobioreactor. Coupling with biological model to predict performance. Wild strain profiling

🎓 EDUCATION

📅 September 2020   **HDR**
📍 INP Toulouse
Thesis title: Modeling as a tool for chemical and biochemical engineering

📅 September 2012 - November 2015   **PhD**
📍 RAPSODEE Mines Albi, Albi, France
Thesis title: Biomass gasification under high solar heat flux.

📅 September 2008 - September 2012   **Engineering degree**
📍 ENSEEIHT & Mines Albi, Albi, France
Chemical engineering with academic exchange in fluid dynamics (with Honors)

👥 POSITIONS, COLLABORATIONS, PUBLICATIONS

🏆 French users of OpenFOAM, (FOAM-U), association.
Secretary (2016 - 2020). Treasurer (2020 - to date)

🏆 Research partnerships, with co-authored publications:
RAPSODEE - Mines Albi
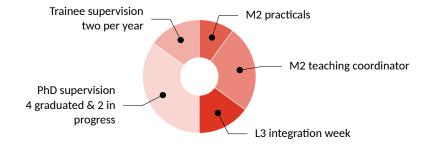RIBP - Université Reims Champagne Ardenne
LPQM - CentraleSupélec
IFPEN - Solaize
ABI – AgroParisTech

🏆 KPI: h-index - 8, 27 authored or co-authored articles (rank A journals)

📖 TEACHINGS AND TRAININGS

A brief graphical summary of my teachings activities. My formal teachings represent about 80 h and one or two OpenFOAM bootcamps (2 to 3 days)

Trainee supervision two per year · M2 practicals · M2 teaching coordinator · L3 integration week · PhD supervision 4 graduated & 2 in progress