Charles LUZZATO, Ph.D.

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PROFILE

Innovation leader focusing on bringing simulation solutions to all industrial applications.
This means advocating for transformation that breaks siloes and makes state-of-the-art simulation tools available to everyone.

WORK EXPERIENCE

Since Jan. 2019

Dassault Systemes, Stuttgart Germany

02.2022 – Present
Industry Expert Director
Responsible for the simulation industrialisation strategy and sales assets for Industrial Equipment and Climate System industries

02.2020 – 02.2022
Industry Expert Senior Manager
Responsible for the simulation industrialisation strategy and sales assets of Heavy Machinery and built environment applications

01.2018 – 02.2020
Technical Sales Senior Manager
- Aeroacoustic, aerodynamic and thermodynamic projects and methodology development in Western and Central Europe, managing 8 FTEs
- Responsible for the pre-sales, deployment and growth of large OEMs and supplier accounts in the automotive sector

Mar. 2015 – Jan. 2018

Exa GmbH, Munich Germany

07.2017 – 12.2018
Team Lead, Aeroacoustics
- Aeroacoustic, aerodynamic and thermodynamic projects in Western and Central Europe, and Asia, managing 9 FTEs
- Management of Research and Development aeroacoustics projects with leading European car manufacturers

03.2015 – 07.2017
Senior Application Engineer, Aeroacoustics
- Technical lead for Windnoise activities in the DACH region, Italy and Scandinavia
- Pre/post processing, simulation, analysis and optimisation of flow and acoustics in ground transportation and fan systems

Jun. – Sep. 2010.

Internship at **EDF**, Clamart France
Code Safari is an in-house high order finite difference CFD code. I was responsible for validation and method development. | Supervisors: Dr. Philippe Lafon, Dr. Allan Bonnet.

EDUCATION

2011– 2015
PhD in AERONAUTICAL ENGINEERING, **Imperial College London**
Thesis: "Modelling and control of combustion instabilities with anchored laminar ducted flames" | Supervisor: Dr. Aimee Morgans
Research Assistant: Development of OSCILOS with MATLAB and Simulink
Graduate Teaching Assistant: Taught, graded and designed undergraduate courses

2007– 2011
MEng. in AERONAUTICAL ENGINEERING, **Imperial College London**
78/100 *First Class Honours* | Specialisation in CFD and Numerical Methods
Thesis: "Immersed Boundary Methods with explicitly enforced viscous forces and pressure gradient equilibrium at the solid boundary" | Supervisor: Prof. Christos Vassilicos
Best structural design project for 1st and 3rd year

2009 –
Exchange academic year at **ISAE-SupAero**, Toulouse France

2010	81/100 *First Class Honours* | Specialisation in Aerodynamics
	Project: Development of Image Recognition Algorithms using Neural Networks with Matlab | Supervisor: Marc Spigai
2007	International Option of the Baccalaureate, **Lycée de Sèvres**, Sèvres France
	Scientific specialisation with English literature and history option

Languages

FRENCH:	Mother tongue
ENGLISH:	Mother tongue, Cambridge Advanced Proficiency Examination, grade A
GERMAN:	Intermediate, Goethe-Institut level B2.1

Awards and Certificates

03.2013	European Acoustics Association
	Best student paper and presentation at AIA-DAGA 2013
12.2011	Certificate of Accomplishment: Introduction to Artificial Intelligence, 87.2/100
	Stanford University online course
05.2006	First Prize in in the "Amis de Sèvres" competition: Paths of Hope

Computer Skills

Software:	LINUX and MICROSOFT WINDOWS operating systems
	Microsoft Office
	MATLAB, LaTeX, and CAD (CATIA V5, ProEngineer)
	Exa PowerFLOW
Program-ming:	Proficient in FORTRAN and GIT version control
	Good knowledge of C and PYTHON
System admin.:	OpenVPN, Gitlab, E-mail, Asterisk and Nextcloud server management
	Docker microservice deployments

Interests and Activities

Interest in network management and network services (self-hosted Exchange e-mail, websites, VoIP, DNS, Cloud Computing, etc.)
Golf Enthusiast
Electro-acoustic and speaker design hobbyist

Publications and Research

You can find more information about my research and a list of my publications on my homepage: charles.luzzato.com

References

Available upon request