

Curriculum Vitae for Max Akira Endo Kokubun

Personal information

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		Nationality:	Brazilian

Summary

In essence, I am a problem-solver who relies on my extense scientific knowledge and experience in academia. I have a PhD in Aerospace Engineering, from the National Institute for Space Research (INPE, 2014) and before joining Expert Analytics I held two postdoctoral positions, one in Applied Mathematics, at the National Institute for Pure and Applied Mathematics (IMPA, 2014-2016), and one in Chemistry/Applied Mathematics, at the University of Bergen (UiB, 2016-2019). My role in these projects was to develop mathematical models, and its associated numerical solvers, describing experimentally-obtained results. Thus, I have an expertise in understanding real-world problems and translating them into a mathematical framework. I worked in close collaboration with researchers from different backgrounds (physicists, engineers, mathematicians, experimentalist chemists, etc) and international institutions (Norway, Brazil, USA, Netherlands, Sweden, Belgium, UK). Therefore, I have excellent communication skills and can easily connect with both technical and non-technical audiences.

Technical skills

Frameworks	Numpy, Scipy, Matplotlib, Pandas, scikit-learn
Languages	Matlab, Python, Fortran, Octave
Tools	openFOAM, COMSOL, Mathematica, FEniCS, gmsh, Latex

Education

2011 - 2014	PhD in Aerospace Engineering. National Institute for Space Research, Brazil. "Theoretical Study of Diffusion Flames Originated from the Burning of Heavy Liquid Fuels in Low Porosity Media (In-Situ Combustion)"
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2009 - 2011	Master in Aerospace Engineering. National Institute for Space Research, Brazil. "Analytical Analysis of Liquid Fuel Combustion Established in a Low-Porosity Medium"
2004 - 2008	Bachelor in Physics. Federal University of Rio Grande do Sul, Brazil.

Professional experience

2013 – 2014	Visiting Scholar. University of Illinois at Urbana-Champaign, USA
2014 – 2016	Postdoctoral Fellow. National Institute for Pure and Applied Mathematics, Brazil
2016 – 2019	Postdoctoral Fellow. University of Bergen, Norway
2020	Consultant. Expert Analytics, Norway

Languages

English	Fluent
Norwegian	Good
Portuguese	Native
Spanish	Good

Personal skills

Analytical thinking	I have a facility in understanding complex problems in an organized matter, breaking it down into smaller, easier to understand pieces.
Communication	I am considered an excellent communicator, specifically regarding simplifying very technical topics to the broader audience.
Problem solving	I like solving real-world problems by analysing them through my scientific background.
Team work	I enjoy being part of a team when solving problems. My experience in research was always guided by collaborative work, absorbing knowledge from more experienced researchers and guiding younger researchers.

Some interests and hobbies

Personal	Traveling, Hiking, Sports (football, swimming, rollerblading, tennis), Music
Scientific	Fluid Mechanics, Computational Fluid Dynamics (CFD), Porous media, Enhanced Oil Recovery, Machine Learning, Data Science