



Paris, May 2021

Recommendation Letter

To whom it may concern,

I, the undersigned, David Ryckelynck, professor of mechanics at Mines ParisTech PSL, certify that João Paulo Casagrande Bertoldo is an excellent scientific engineer. He has all the aptitudes to do research in order to prepare a PhD in deep learning, in particular in the field of artificial intelligence for science or engineering.

He was my student at the Digital Engineering of Complex Systems (IDSC) minor at Mines ParisTech PSL, of which I am in charge, during the year 2019-2020 and worked with me as an intern from September 2020 until March 2021 at the Bigméca chair, of which I am co-holder. Having obtained excellent results during the internship, he was given a position as a research engineer in continuity of his internship.

João wishes to pursue a research career in deep learning and I strongly encourage him to do so. He followed the IDSC option and completed a master's degree in artificial intelligence in parallel to the last year at Mines ParisTech PSL. Having also completed a research internship in deep learning, I am convinced that he is qualified to pursue a thesis in this field.

I therefore recommend him for a Ph.D. Position in data science and particularly in deep learning.

Yours sincerely,

A handwritten signature in black ink, appearing to read "David Ryckelynck", with a stylized flourish at the end.

David Ryckelynck

Professor at Mines ParisTech PSL