

Buenos Aires, December 21st 2023.

Dear Selection Committee,

I am writing to highly recommend Juan Ignacio Teich for your esteemed PhD programme in Meteorology, in particular the PhD position focusing on high-fidelity modelling of offshore wind farms. As Juan Ignacio's thesis advisor in Mechanical Engineering, I have had the pleasure of working closely with him and witnessing his exceptional academic ability and dedication to research. I have been advising Juan Ignacio during the last semester on his thesis project entitled 'Parametric analysis of actuator disc models to simulate wind farms', which is being developed within the research group I lead at the CSC (Computational Simulation Center, CONICET) in Buenos Aires. Remarkably, this thesis project is closely related to the topic of the PhD position, which encouraged him to apply.

The engineering degrees at the University of Buenos Aires lasts 6 years with a final thesis, making it comparable to a degree plus master's at other institutions. And despite working almost full-time in industry during his final years at university, Juan Ignacio will graduate with a minimum of delay. I consider this work experience to be a valuable asset, as he has been able to interact easily with professionals from both the academic and productive worlds. It is noteworthy that during this last semester, when he started his thesis project, his dedication was the same as if it were his only occupation.

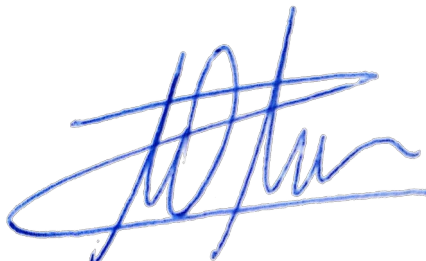
Through his thesis project, Juan Ignacio has applied and improved his skills in CFD, specifically using the OpenFoam software to simulate actuator disc models. He has developed his own actuator disc models and compared the performance and capabilities of different variants in different conditions, including uniform inlet flow, atmospheric boundary layer flow, wake interference, and others. Throughout his work, Juan Ignacio demonstrated exceptional analytical skills, attention to detail and critical thinking skills. His work demonstrated his ability to develop and implement sophisticated research methodologies, delve into complex mathematical formulations and draw insightful conclusions. His dedication and thoroughness in his research was evident in the high quality developments he

produced. This research demonstrated his exceptional aptitude and enthusiasm for advanced study in the field.

In addition, Juan Ignacio consistently demonstrated excellent communication skills, both written and oral. He effectively presented his research findings to me and other collaborators. In addition, his ability to work harmoniously with others and contribute to the success of team-based projects is indicative of his strong interpersonal skills and adaptability.

Considering Juan Ignacio's exceptional academic record, his research skills, and the close alignment between his engineering thesis and the proposed PhD topic, I have no doubt that he possesses the necessary skills and dedication to excel in your PhD programme. I therefore wholeheartedly recommend Juan Ignacio for admission to your PhD programme. Should you require any further information or have any questions regarding Juan Ignacio's qualifications, please do not hesitate to contact me.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'A. Otero', with a stylized, flowing script.

Alejandro D Otero

Professor - College of Engineering, University of
Buenos Aires

Renewable Energy group Head, Computational
Simulation Center, CONICET