

Teich, Juan Ignacio

🇦🇷 Argentinian and Spanish citizen
📍 Buenos Aires, Argentina
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📅 22-03-1999 — 24 years

PROFESSIONAL OBJECTIVES

Continue my professional and academic career pursuing challenging projects in a PhD and applying the skills acquired through my journey so far.
I aim to focus on simulation and its development to address and better understand industry problems.

EDUCATION



2017 – Present

Mechanical Engineering

Faculty of Engineering, University of Buenos Aires

- 6 year degree
- Thesis in progress - Parametric analysis of actuator disks models to simulate wind farms.
 - Own development and coding of actuator disks models (ADM).
 - Analysis and comparison of ADM in uniform flow and atmospheric boundary layer flow conditions, considering wake interference and computational cost.
 - Including, but not limiting to: mesh sensibility studies, wake interference studies, inlet velocity sensitivity analysis.
 - CSC - CONICET - Argentina.
 - Director: Alejandro Otero, PhD.
 - Co-Director: Dimas Barile.
- Thesis completion date: July 2024.



2011 – 2016

Bilingual High School

Colegio Holy Cross

WORK EXPERIENCE



October 2023 – Present

Numerical Simulations Specialist

STÄMM Biotech

Responsibilities:

- Enhance meshing strategies for complex repetitive structures.
- Develop and run CFD simulations to validate and further improve existing in-house indirect simulation models.
- Elaborate post-processing scripts, for various types of OpenFOAM simulations and python simulation scripts.
- Formulate OOP code to further develop in-house indirect simulation model.

Skills and tools:

- OpenFOAM, Code_Saturne, Salome Geometry and Meshing modules, Python, Object Oriented Programming, Bash, Linux



November 2022 – October 2023

Junior Project Engineer

Saint-Gobain Argentina

Responsibilities:

- Lead strategic projects, including analyzing the company's needs for business continuity, basic project design, and implementation.

Skills and tools:

- AutoCAD, SolidWorks, MS Excel, MS PowerPoint, MS Planner, MS Project.

COURSES



Sep. 2021 – Nov. 2021

A Hands-on Introduction to Engineering Simulations

edX & Cornell University

- ANSYS course

SKILLS

Languages

English - fluent

- IGCSE Certificates, Cambridge University

French - basic

- A1 and A2 certificates

Software and Programming Languages

Autodesk Fusion 360

MS Office (Excel, Word, PowerPoint, Project)

AutoCAD

ANSYS

LaTeX

OpenFoam

MatLab

SolidWorks

Linux

Python

Object Oriented Programming

Code_Saturne

Salome Geometry and Meshing Modules