

# VITTORIA DE PELLEGRINI

Thuwal, Saudi Arabia

+966 562019451 ✉ [vittoria.depellegrini@kaust.edu.sa](mailto:vittoria.depellegrini@kaust.edu.sa)  <https://www.linkedin.com/in/vittoria-de-pellegrini-110371229>  
 <https://github.com/VittoDePe98>

## PROFESSIONAL SUMMARY

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As a highly motivated and inquisitive 25-year-old fresh graduate in Petroleum Engineering, my passion lies in the fascinating intersection of machine learning, geophysics, petrophysics, well-logging, and reservoir engineering, for subsurface characterization. Armed with a consistent academic background, I am eager to collaborate with like-minded researchers and actively participate in the development of open-source tools to drive innovation in the field.

## EDUCATION

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<b>King Abdullah University of Science and Technology (KAUST)</b> <i>Ph.D. in Earth Science &amp; Engineering</i>	<b>January 2024 -</b> <i>Thuwal, Saudi Arabia</i>
<b>Politecnico di Torino (PoliTO)</b> <i>Master of Science in Petroleum Engineering</i> Grade: 108/110	<b>October 2020 - July 2023</b> <i>Turin, Italy</i>
<b>Università degli Studi di Padova (Unipd)</b> <i>Bachelor of Science in Civil Engineering</i> Grade: 110/110	<b>October 2017 – July 2020</b> <i>Padua, Italy</i>
<b>Liceo Scientifico Statale Giordano Bruno</b> <i>High School Diploma</i>	<b>September 2012 – June 2017</b> <i>Venice, Italy</i>
<b>Orewa College</b> <i>Exchange Summer Student</i>	<b>July 2015 – September 2015</b> <i>Auckland, New Zealand</i>

## RELEVANT COURSEWORK

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- Data Analysis
- Geophysics
- Machine Learning
- Petrophysics
- Reservoir Engineering
- Well-Logging

## PROFESSIONAL EXPERIENCE

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<b>Aramco Overseas Company B.V.</b> <i>Geophysics Intern</i>	<b>September 2022 – November 2022</b> <i>Delft, Netherlands</i>
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**Project Title: Building a 3D Multi-Physics Synthetic Model for a Geothermal Site in Saudi Arabia.**

Supervisor: Dr. Diego Rovetta (ARAMCO).

- Created a multi-physics synthetic model.
- Generated surface wave dispersion curves.
- Generated synthetic seismograms.

## RESEARCH EXPERIENCE

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<b>Master Thesis @ PoliTO in cooperation with Petrobras</b>	<b>February 2023 – July 2023</b>
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**Project Title: Development of Supervised Machine Learning Models for the Prediction of Well-Logs and Application on Wells at São Francisco and Santos Basins, Brazil.**

Supervisors: Prof. Laura Valentina Socco (PoliTO), Mr. Gabriel Sarantopoulos Bergamaschi (PETROBRAS).

- Created supervised ML models for the prediction of conventional and high technological well-logs.
- Built with Dllisio, Matplotlib, NumPy, Pandas, Pickle, Scikit-Learn libraries.
- Published work on GitHub [<https://github.com/VittoDePe98/Well-Logs Predictive Models.git>].

## TECHNICAL SKILLS

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- **Programming Languages:** Python.
- **Python Libraries:** Dllisio, Folium, Json, Matplotlib, Lasio, NumPy, Pandas, Pickle, QB Styles, Seaborn, Scikit-Learn, Turtle.
- **Developer Tools:** Visual Studio Code.
- **Microsoft Office Suite:** Word, Excel, PowerPoint.
- **Operating Systems:** macOS, Windows.
- **Web-Based Platforms:** GitHub.

## LANGUAGES

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- **Italian:** Bilingual.
- **Brazilian Portuguese:** Bilingual.
- **English:** Advanced. TOEFL iBT: 98 (08/30/2023).
- **Spanish:** Intermediate.

## CERTIFICATIONS

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- **Programming for Everybody (Getting Started with Python)** (Coursera).
- **Python Hands-On 46 Hours, 210 Exercises, 5 Projects, 2 Exams** (Udemy).