



To Whom It May Concern

Agroscope is the Swiss Confederation's center of excellence for agricultural research and is affiliated with the Federal Office for Agriculture, which is subordinate to the Federal Department of economic Affairs, Education and Research.

This document is to certify that Saverio Frandino, born on February 2, 2001 completed his master thesis as a Master's Student at Agroscope, in the digital production group located in Tänikon, TG, from May 1, 2025 to October 31 2025.

The master project was part of his Master's program at the Politecnico di Torino and focused on measuring volatile organic compounds (VOCs) from plants as well as wool samples using inexpensive metal-oxide (MOX) sensors. Under the supervision of Camilo Chiang and Ralph Stoop (research associates), he was involved in:

- Designing suitable hard- and software, for reliable VOC measurements based on MOX sensors
- In collaboration with the University of Zurich, planning and conducting multiple experiments to evaluate the potential of MOX sensors compared to more traditional methods (gas chromatography-mass spectrometry)
- Analyzing the sensor data, preparing reports and presentations for internal meetings
- Reporting of the results in form of a written thesis

Mr. Frandino possesses extensive expertise and has gained significant experience in his field. He successfully applies his knowledge in practice and adapts quickly to new tasks. He meets both qualitative and quantitative requirements flawlessly, and his performance exceeded our expectations in many areas. Mr. Frandino demonstrated great initiative and was highly committed. He approached changes with dedication and was always willing to explore new avenues. He adapted quickly to changing situations, planning and organizing tasks purposefully and with clear priorities.

Mr. Frandino is sociable and open-minded, approaching others with confidence and building strong relationships. He communicates regularly, passes on important information promptly. His verbal and written communication is tailored to his audience and persuasive. He effectively presents his own ideas while using other perspectives and constructive criticism as inspiration for personal growth.

This master project was educational in nature and did not constitute an employment relationship. We appreciate Mr. Frandino's commitment and contribution during this period and wish him continued success.

Ettenhausen, November 13, 2025

Camilo Chiang
Researcher

Ralph Stoop
Deputy Head of Research Group