

CORENTIN LEROUX

Engineer-PhD in Precision Agriculture



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Fluent



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Montpellier

PROFESSIONAL EXPERIENCES

Since 2019 – 2 years | **CEO ASPEXIT, Montpellier**

Data processing and analysis for agricultural professionals in Precision Agriculture

→ www.aspexit.com

Writing of **popularization and synthesis work** on the themes of **agriculture and digital technologies** : carbon models and markets, standards and interoperability, digital tools and conservation agriculture, geo-positioning, precision agriculture...

→ <https://www.aspexit.com/en/posts/>

Development of a **free, open-source and participative platform to reference digital tools in agriculture** (soon translated in English). More than 1100 digital services and tools referenced

→ www.lesoutilsnumeriquesdesagriculteurs.com

2016-2018 – 3 years | **PhD in Precision Agriculture – SMAG, France**

Processing and value-adding to spatial information in Precision Agriculture : Application to within-field yield monitor data.

- Processing and analysis of within-field yield datasets: Simulation, filtering, zoning (annual and multi-temporal), harmonization, within-field variability characterization – *Agronomy, Geostatistics, Informatics*
- 17 published articles in peer-reviewed scientific journals and international conferences (Precision Agriculture, Computers and Electronics in Agriculture, ECPA)

2014-2015 – 16 months | **Vine products and services engineer – TELESPAZIO, France**

- Spatial and temporal analyses of vine vigor (within-field variability, smart sampling, vigor temporal stability, field selection) – *Agronomy, Geostatistics, Image processing*
- Review of vigor indices and their applications to viticulture. Writing of a Master's thesis.

EDUCATION

2011-2015 – **Master 2 : Information and communication technologies (AgroTIC)**, Montpellier SupAgro (34), France



2014 | **Gap Year** : Chile, New Zealand



2013 | **Erasmus, PUC**, Santiago, Chile.

MAIN REFERENCES

2018 - Leroux, C., & Tisseyre, B. How to measure and report within-field variability – a review of common indicators and their sensitivity. *Precision Agriculture*.
<https://doi.org/10.1007/s11119-018-9598-x>

2018 - Leroux, C., Jones, H., Clenet, A., Dreux, B., Becu, M., & Tisseyre, B. A general method to filter out defective spatial observations from yield mapping datasets. *Precision Agriculture*.
<https://doi.org/10.1007/s11119-017-9555-0>

2018 - Tisseyre, B., Leroux, C., Pichon, L., Géraudie, V., Sari, T. How to define the optimal grid size to map high resolution spatial data? *Precision Agriculture*.
<https://doi.org/10.1007/s11119-018-9566-5>

2017 - Leroux, C., Jones, H., Clenet, A., Tisseyre, B. A new approach for zoning irregularly-spaced, within-field data, *Computers and Electronics in Agriculture*.
<https://doi.org/10.1016/j.compag.2017.07.025>

INFORMATICS

R	●	●	●	●	●
Python	●	●	●	●	●
QGIS	●	●	●	●	●
GRASS/SAGA	●	●	●	●	●