

Curriculum vitae Jorrit van Gils

Personal information

Name: Jorrit van Gils
Address: Hoogstraat 47, 6701BM Wageningen, The Netherlands
Phone: +31627572261
Date of Birth: 27/08/1992
Nationality: Dutch



Summary: Skilled in machine- and deep learning models, pose estimation, GIS and networking. Internationally oriented with a strong interest in technology-based solutions for conservation. Experienced Python and R programmer with a demonstrated history of working as teacher biology. Chair of youth board State Forestry involving youth in decision making.

Work experience

- 01/2022-present **PiVa AI**
Pilsen, Czech Republic
Detection of Varroa Destruction mites on bees.
Skills: Python, FastAPI
- 11/2021-present **BOX21 AI website developer**
Implementing DeepLabCut pose estimation functionality to website
Skills: Docker, Python, key point implementation, website deployment
- 07/2016-02/2019 **Teacher Secondary school Biology**
De Nassau, Breda
Teaching Biology for students in their first 3 years of the lower- and higher general secondary education
Extra activities: Content developer and interactive digital lessons

Education

- 02/2019-Present **Master Forest and Nature Conservation**
Wageningen University & Research
Specialisation: Data science management
- Thesis: *Computer vision for wildlife: Classification of wildlife behaviour from camera-trap imagery using pose estimation and deep-learning algorithms.*
 - Computer science minor: Mathematics I & II, Statistics I & II, Programming in Python, Geo Scripting, Machine Learning, Deep learning, Remote sensing, Introduction Geo-information Science, Geo-information Tools
 - Internship: *Mapping drought resistance of floodplains with GIS*
- 08/2016-02/2019 **Bachelor Secondary School Teacher Biology**
Fontys Hogeschool Tilburg

08/2010-02/2015 **Bachelor Primary School Teacher**
Avans Hogeschool Breda

Invited talks

09/12/2021 **Thesis experience for new master students**
Wageningen University & Research
Physical open day. Presented thesis workflow: methodology, data-collection in R, usage of DeepLabCut, GIS integration, DL-networks.

25/11/2021 **Sharing experiences master student**
Wageningen University & Research
Online open day: Explaining new students master program experiences.

Extra-curricular activities and side jobs

02/2022-05-2022 **iWildCam competition 2022**
Partitioning in yearly classification challenge hosted by Kaggle

05/2021-present **AI for Conservation Slack channel**
Active member of SLACK platform for information exchange. International contacts with researchers, PhD students, companies and volunteers.

09/2021-present **WILDLABS community member**
Latest developments in conservation technology. Tech Tutors episodes about wildlife camera traps.

02/2020-present **Youth board state forestry Netherlands**
Stand up for the involvement of Dutch youth in forest decision making

- Activities: weekly meetings, tours with forest managers, groupwork
- Communication manager social media group

02/2019-present **Volunteer nest box monitoring in spring**
Arboretum, KNNV, Wageningen
Stimulate bird abundance as biological pest control for caterpillar plagues

- Measure fledglings, and note nest properties

03/2015-07/2015 **Volunteer coast Care Worker**
Perth, Australia
Project: 'Friends of Sorrento Beach & Marmion Foreshore'.
Coastal restoration project. Integration of refugees and education.

03/2015-07/2015 **Living with English family**
Perth, Australia
Looked after two children, Alex (11) and Tobi (9).
Improved English by living in English family and by taking English lessons

Skills

Languages: Dutch C2, English C1, German A2, French A1, Spanish B1

IT skills: Machine learning, TensorFlow, PyTorch, Python, RStudio, SPSS, Docker, GitHub, Jupyter, Linux, Shiny, Google Earth Engine, Maxent, Zonation