

BIOGRAPHY

PERSONAL

Name: Jan Komárek
Citizenship: Czech
Marital status: married

BELONGING

Department of Applied Geoinformatics and Spatial Planning, since 2014
Centre for Precision Farming, since 2017
Spatial Science in Environment and Ecology Research Group, since 2017

JOB POSITIONS

Since 2016/11
Assistant for UAVs at the Department of Applied Geoinformatics and Spatial Planning

2014/10 - 2016/10
Technician at the Department of Applied Geoinformatics and Spatial Planning

EDUCATION

Czech University of Life Sciences Prague, Faculty of Environmental Sciences,
Territorial Technical and Administrative Services
(2009 – 2012; 2012 bachelor's degree)
Bachelor thesis topic: GNSS reliability testing in urban environment

Czech University of Life Sciences Prague, Faculty of Environmental Sciences,
Landscape and Land Improvement
(2012 – 2014; 2014 master's degree)
Master thesis topic: The assessment of topographical data for the purpose of
precision farming system in the Czech Republic conditions

Czech University of Life Sciences Prague, Faculty of Environmental Sciences,
Applied and Landscape Ecology
(2014 – until now; PhD candidate)
PhD thesis topic: Land-cover datasets accuracy assessing and its implication for
ecological modelling

Czech University of Life Sciences Prague, Institute of Education and Communication,
Complementary pedagogical studies for teachers
(2015 – 2018; certificate for teaching at technical high schools)
Final thesis topic: Design of open source GIS utilization for the teaching of technical
subjects

TRAININGS

2018/06 GeoSpatial Summer School G3S Open, Olomouc, CZ
2017/06 Trans-Atlantic Training, Pécs, HU
2017/04 Fundamentals of GNSS, Warsaw, PL
2016/06 Split Summer School on Remote Sensing, Chania, GR

ACADEMIC VISITS

2018/03 Universidad Politécnica de Madrid, Spain (5 weeks)
2017/05 Università degli Studi Roma Tre, Italy (1 week)
2017/05 Universidad Politécnica de Madrid, Spain (2 weeks)

OTHER DEGREES

2018/06 Complementary pedagogical studies for teachers
2018/02 Authorized operator of rotary-wing UAV (MTOW 1.5 kg)
2017/11 Restricted certificate for radio operator for an aeronautical mobile service
2015/06 Authorized operator of rotary-wing UAV (MTOW 10 kg)

TEACHING EXPERIENCES

Since 2014 Seminars of GIS, Remote Sensing, Remote Sensing with UAVs
Since 2016 Supervision of Bachelor and Master Thesis (applications of UAV)
2017 High School Teaching Practise (3 weeks)

UNIVERSITY PROJECTS

2018 – 2019 Detection of infection forest bark beetle (*Ips typographus*) in advance using unmanned air vehicles. Technology Agency of the Czech Republic.

2018 – 2019 Remote sensing: an effective tool for the study of spatial dynamics of bark beetles at Krkonoše National Park. Czech University of Life Sciences Prague.

2017 – 2019 Fusion of LiDAR and UAV borne multispectral data to assess physiographic diversity of post-mining sites. Czech Science Foundation.

2017 – 2018 Influence of Remote Sensing Data Resolution in Evaluating Ecological Measures. Czech University of Life Sciences Prague.

2016 – 2017 Development and implementation of technologies for digital soil mapping. Czech University of Life Sciences Prague.

CONFERENCES & WORKSHOPS SPEAKER

2018/07 The IX Conference of the Italian Society of Remote Sensing
Firenze, Italy, *presentation of research topic, in English*

2018/06 Field days out of the air Workshop
Crop Research Institute, Prague, *invited speaker, in Czech*

2018/06 Fifth International Split Remote Sensing Professional Summer School
Prague, *workshop of UAV-borne data processing, in English*

2018/04 Workshop for start-ups, close-range remote sensing
ESA Business Incubation Centre, Prague, *invited speaker, in Czech*

2017/06 Field days out of the air Workshop
Crop Research Institute, Prague, *invited speaker, in Czech*

2016/09 The second conference of the Alliance for Unmanned Aviation Industry
Alliance for Unmanned Aviation Industry, Prague, *invited speaker, in Czech*