

Andrzej Norbert Affek

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EDUCATION

Polish Academy of Sciences

Institute of Geography and Spatial Organization

- Ph.D. with Honors, Geography (Warsaw 2014), supervisor: Prof. Jerzy Solon

International Association for Landscape Ecology – Europe (IALE Europe)

- Advanced Ph.D. course in Landscape Ecology (Manchester 2013) led by Prof. Marc Antrop and Prof. Veerle van Eetvelde

Warsaw University

College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences (MISMaP)

- M.A. in Psychology (Warsaw 2008)

RESESARCH INTERESTS

- A multidisciplinary approach to the study of human-environment relationships
- Landscape ecology: patterns, processes and social perception
- Ecosystem services: potentials, pollination service, bumble bees
- Dynamics of spatial structures (e.g. vegetation, land ownership)
- Polish Eastern Carpathians - landscape transformation and the persistence of former land systems
- Research methodology:
 - spatial analysis
 - statistical analysis of spatial data
 - psychometrics and surveys
 - HGIS - Historical GIS
 - airborne and terrestrial laser scanning (LiDAR)

RESEARCH EXPERIENCE

- Leader of a scientific project funded by the National Science Centre of Poland in 2013-2016: *Hidden cultural heritage in the abandoned landscape - identification and interpretation using airborne LIDAR*
- Active participant of 8 other scientific projects on landscape dynamics and ecosystem service evaluation
- Active participant of ca. 30 conferences (e.g. World and European Congresses of Landscape Ecology (IALE) in Manchester, Portland, Ghent and Milan; Conference of Historical Geographers in Prague and Warsaw, Archaeological Prospection in Warsaw)
- Regular reviewer in international journals (e.g. *Ecological Indicators, Journal of Environmental Management, Proceedings of the Royal Society B, Archaeological Prospection*)
- Executive Committee member and Treasurer of the European Association for Landscape Ecology (IALE-Europe) for the term 2017-2021

TECHNICAL SKILLS

- GIS (ESRI, QGIS)
- LIDAR data analysis (LP360, MARS)
- Operating Riegl VZ-4000 Terrestrial Laser Scanner and GPS RTK
- Statistical analysis (SPSS IBM Statistics, STATISTICA)
- Editing and publishing (MS Office, Mendeley)
- Graphics (COREL)

OTHER SKILLS

- Licensed Carpathian Mountain Guide (since 2005), instructor and lecturer on mountain guide courses
- Beekeeper (since 2009), a member of the Polish Beekeepers Association

AWARDS

- 2012-2013 – scholarship awarded under the EU Human Capital Operational Programme
- Eugeniusz Romer Award granted in 2016 by the Polish Academy of Sciences for the best doctoral dissertation in the field of geography
- Artur Rojszczak Award granted in 2018 by the Club of the Foundation for Polish Science Scholars (FNP) for outstanding scientific achievements and humanistic attitude
- Scholarship of the Polish National Agency for Academic Exchange for a scientific visit in 2019 at the University of Wisconsin-Madison (USA)

SELECTED PUBLICATIONS

Affek, A., Degórski M., Wolski J., Solon J., Roo-Zielińska E., Kowalska A., Grabińska B., Kruczkowska B., 2019, *Ecosystem Service Potentials and Their Indicators in Postglacial Landscapes: Assessment and Mapping*. ELSEVIER, ISBN: 9780128161340 [in press]

Affek A., 2019, Wpływ gospodarki leśnej na terenach górskich na wybrane elementy środowiska – aktualny stan wiedzy [Impact of mountain forest management on selected elements

- of the environment – the current state of knowledge], *Przegląd Geograficzny*, 91, 1, 63–81.
- Affek A.**, Gerlée A., Sosnowska A., Zachwatowicz M., 2019, Oszacowanie skali wpływu pozyskiwania drewna na wybrane elementy środowiska we wschodniej części polskich Karpat [Estimating the impact of logging on selected elements of the environment in the eastern part of the Polish Carpathians], *Przegląd Geograficzny*, 91, 1, 83–106.
- Jabs Z., **Affek A.**, 2019, Dostępność rolnicza Beskidów [The agricultural accessibility of the Beskid Mountains], *Przegląd Geograficzny*, 91, 2, 97-111.
- Affek A.**, 2018, Indicators of ecosystem potential for pollination and honey production, *Ecological Indicators*, 94, 2, 33-45.
- Affek A.**, Zachwatowicz M., Sosnowska A., Gerlée A., Kiszka K., 2017, Impacts of modern mechanised skidding on the natural and cultural heritage of the Polish Carpathian Mountains, *Forest Ecology and Management*, 405, 391-403.
- Affek A.**, Kowalska A., 2017, Ecosystem potentials to provide services in the view of direct users. *Ecosystem Services*, 26, 183-196.
- Affek A.**, 2016, Past Carpathian landscape recorded in the microtopography, *Geographia Polonica*, 89, 3, 415-424.
- Affek A.**, 2016, Dynamika krajobrazu. Uwarunkowania i prawidłowości na przykładzie dorzecza Wiaru w Karpatach (XVIII-XXI wiek) [Landscape dynamics: determinants and patterns on the example of the Wiar river basin in the Carpathians (18th-21st century)]. IGIPZ PAN, Warszawa, pp. 244.
- Załęska-Radziwiłł M., Affek K., Doskocz N., **Affek A.**, 2016, In vitro and in vivo genotoxicity assessment of selected pharmaceuticals in relation to *Escherichia coli* and *Cyprinus carpio*, *Journal of Environmental Science and Health, Part A*, 51, 12, 1053-1061.
<https://doi.org/10.1080/10934529.2016.1198625>
- Affek A.**, 2015, Spatially explicit changes in land ownership through 3 socio-political systems: A case study from southeast Poland, *Geographia Polonica*, 88, 3, 519-530.
<https://doi.org/10.7163/GPol.0032>
- Affek A.**, 2015, Exploring past Carpathian landscape: the application of LiDAR and archival cadastral maps, *Archaeologia Polona*, 53, 243-248.
- Affek A.**, 2015, Skutki krajobrazowe przerwania ciągłości osadnictwa [Landscape consequences for the broken continuity of settlement], *Prace Komisji Krajobrazu Kulturowego.*, 28, 47-64.
- Affek A.**, 2014, Lotnicze skanowanie laserowe (ALS) w modelowaniu rzeźby terenu – nowe możliwości i pułapki [Airborne laser scanning (ALS) in terrain modelling – new opportunities and pitfalls], *Problemy Ekologii Krajobrazu*, 38, 217–236.
- Affek A.**, Wolski J., Solon J., 2014, Naziemne skanowanie laserowe (TLS) jako narzędzie do szacowania nadziemnej biomasy roślinności torfowiskowej [Terrestrial laser scanning (TLS) as a tool for estimating above-ground biomass of peatbog vegetation], *Problemy Ekologii Krajobrazu*, 38, 41-60.
- Affek A.**, 2013, Georeferencing of historical maps using GIS, as exemplified by the Austrian Military Surveys of Galicia, *Geographia Polonica*, 86, 4, 375-390. <http://dx.doi.org/10.7163/GPol.0062>
- Affek A.**, 2011, Wartości krajobrazu opuszczonego przez ludność na przykładzie byłej rusińskiej wsi Borysławka [Values of landscape abandoned by people. A case study of former Ruthenian village Borysławka], *Prace Komisji Krajobrazu Kulturowego*, 15, 148-160.
- Affek A.**, 2011, Landscape continuity versus landscape transformation: a case study in the Wiar River catchment, Polish Carpathians (1780-2000), *Problemy Ekologii Krajobrazu*, 30, 147-155.