



www.jakub-dvorak.eu

Prague, Czechia

Happy to relocate.

Always curious about remote sensing problems, especially interested in SAR, Time Series and Deep Learning. While attending Charles University, I worked on a wide range of remote sensing research projects, most notably E-TRAINEE. I'm looking to join a fast-paced company working to improve our environment.

Geospatial-related professional experience:

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| 2020-2023 | E-TRAINEE – E-learning course on Time Series Analysis in Remote Sensing for Understanding Human-Environment Interactions – I developed content, course-wide functionality and led the course release team. |
| 2023-2024 | Teaching Intro to GIS at Lauder secondary school |
| 2021-2022 | Treeline ecotone classification – Deep Learning (U-Net based) classification from multitemporal aerial imagery in Krkonoše NP and Jeseníky. |
| 2020 | EuroSDR EduServ – PhD-level courses on Deep Learning and Point Clouds |

Education:

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| 2020-2023 | Master's in Cartography, GIS and Remote Sensing
Thesis: <i>Geometric Aspects of Detecting Grassland Mowing in Krkonoše Mountains Based on Sentinel-1 Coherence</i>
Charles University (Prague) & Erasmus+ at Humboldt University (Berlin) |
| 2017-2020 | Bachelor's in Physical Geography and GIS
Thesis: <i>Deep Learning for tree line ecotone mapping from remote sensing data</i>
Charles University (Prague) |

Awards/publications:

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|------|---|
| 2023 | E-TRAINEE – co-authored papers about the project (ISPRS Archives) |
| 2022 | ISPRS Congress – Presented full paper on Deep Learning as 1 st author (ISPRS Annals) |
| 2022 | ISPRS Congress CATCON – 3 rd place for CNN Compare |
| 2021 | GISáček – 2 nd place for my bachelor thesis |

Extracurriculars/volunteering/summer jobs:

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| 2012-now | Summer camp instructor (volunteer) |
| 2017-now | Election polling clerk/presiding officer |
| 2018-2020 | EGEA Praha – member and PR coordinator of the local entity |
| 2017-2020 | Office intern and volunteer at Youth for Understanding CZ |
| 2016-2018 | Selling souvenirs in Prague ZOO |

Geospatial-related technical skills:

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|--------------------|---|
| Advanced level | Python (Pytorch, scikit-learn), QGIS, SNAP |
| Intermediate level | SQL, ArcGIS/ArcPy, R, Git, Javascript/GEE |
| Basic level | Linux, HTML, Matlab, ENVI, eCognition, CloudCompare |

Language skills:

Czech (native), English (C1/C2), German, Danish (B1)