

# František Kolovský



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citizenship Czech Republic  
date of birth 10. 7. 1992

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## Education

- 2017 - present **PhD degree - University of West Bohemia** in Pilsen, Faculty of Applied Science, Department of Geomatics, Geomatics, **expected graduation: 2021**
- 2019 six month internship at **Norwegian University of Science and Technology**  
Department of Civil and Environmental Engineering
- 2015 - 2017 **Masters deegree - University of West Bohemia** in Pilsen, Faculty of Applied Science, Department of Mathematics/Geomatics, Geomatics
- 2015 one semestr at **Häme University of Applied Sciences**, Finland
- 2012 - 2015 **Bachelor deegree - University of West Bohemia** in Pilsen, Faculty of Applied Science, Department of Mathematics, Geomatics
- 2008 - 2012 **The Secondary School of Civil engineering** in Pilsen  
Geodesy

## Professional experience

- 2020 - present University of West Bohemia, Plzeň (Czech Republic)  
- leading of group that are responsible for Dynamic Traffic Assignment models development  
- work on TrafficModeler ([trafficmodeler.com](http://trafficmodeler.com))
- 2017 - present InnoConnect s.r.o. ([innconnect.net](http://innconnect.net)), Plzeň (Czech Republic)  
- senior developer - WebGL, Kotlin, OpenCL, OpenGL, Spring Boot, (JavaScript)
- 2017 - present Plan4all z.s. ([plan4all.eu](http://plan4all.eu)), Plzeň (Czech Republic)  
- work on the **PoliVisu** <https://www.polivisu.eu/>  
- data model, PostGIS  
- traffic volume modeling close to real time
- 2014 - 2017 University of West Bohemia, Plzeň (Czech Republic)  
- work on the **Open Transport Net** <http://www.opentransportnet.eu>  
- data model, PostGIS  
- Apache Spark - traffic volume modeling
- 2013 - 2014 University of West Bohemia, Plzeň (Czech Republic)  
- work on the project **Plan4business** <http://www.plan4business.eu>  
- routing in route network, database (PostGIS, PgRouting)
- 2011 - Present create maps for orienteering

## Awards and committee memberships

- 2019 **Best Paper Award** received at the 5th International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2019)
- 2015 **3<sup>th</sup>** place on **ACM SIGSPATIAL Cup 2015** competition (Seattle, USA)  
focused on shortest path search
- 2017 - present **Evaluator** for National Accreditation Bureau for Higher Education  
in the Czech Republic in Earth Science

## Skills

### *Computer*

Scala, Python, Kotlin, Java

PostGIS, Geography Information System (GIS)

Apache Spark

Other: JavaScript, C, SQL, PostgreSQL, Linux (Debian, Ubuntu), L<sup>A</sup>T<sub>E</sub>X , WebGL, OpenGL, OpenCL

### *Other*

Time-dependent shortest path problem

Transportation modeling, Dynamic Traffic Assignment

Create maps for orienteering

## Languages

Czech (native), English (B2, technical)

## Hobbies

orienteering, cross-country skiing, hiking