

## MAXIM Y. DUBININ

### CONTACTS

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### IN SHORT

- 20+ experience in projects related to Geographic Information Systems, Remote sensing data processing and software development;
- Participation in and coordination of more than 50 projects from local to global scale;
- Solid knowledge of GIS, opensource technologies and geodata field;
- Developed professional network.

### INTERESTS

#### MAIN

- Geographic information systems and remote sensing of environment;
- Data creation, processing, analysis and dissemination;
- Open systems, in particular opensource software and open geodata;

#### SCIENTIFIC

- Quantitative methods: spatial data analysis, statistical analysis, time series, modelling;
- Land cover/land use change in forest, steppe, arid ecosystems;
- Nature conservation;
- Wildlife telemetry;
- Historical geography.

### EDUCATION

PhD in Forestry, University of Wisconsin	2006-2010
MS in Environmental sciences, RPFU, Moscow	1999-2001
BA in Environmental sciences, RPFU, Moscow	1994-1999

### WORK EXPERIENCE

*CEO, NextGIS* 2011-now

- Opensource GIS development

*Scientist, Severtsev's Institute of Ecology and Evolution* 2011-2016  
*Biodiversity conservation and bioresources management Lab*

- Spatial data analysis and information systems.
- Coupled human-natural systems, climate, red listed species and conservation criteria.

*Research assistant, University of Wisconsin-Madison* 2006-2010

- Spatial data analysis, statistical analysis (regressions, classification, correlation analysis, time series, forecasting).
- Arid ecosystems, fires, land cover/land use change, climate.
- Programming, data processing and automation.

- *Selected results*: 5 first-author papers peer-reviewed journals.

*Senior GIS specialist, ISEU* 2001-2005

- Mapping last intact forest landscapes of Russia, Canada, Romania, change detection. High volumes data procession. Mentoring, general coordination.
- Expert work in different projects with Ministry of Nature Resources, UNDP, WWF, GFW, WRI, Crude accountability, Wetlands International and others.
- *Selected results*: 12 publications, Russian intact forest landsacapes atlas, High Conservation Value Forests of Primorsky and Khabarovsky regions, software tools for data analysis and processing.

*Project coordinator, Biodiversity Conservation Center* 1999-2005

- Protected areas cadastre of Russia. Legislation, mapping, general coordination.
- *Selected results*: First protected areas database of Russia, created web-portals <http://biodiversity.ru>, <http://oopt.info>

*Founder and head coordinator, GIS-Lab.info* 2001-2015

- Created and coordinating GIS-Lab.info
- Translation, documentation development, softare development, user support, training.
- *Selected results*: more than 200 first-author full-size tutorials.

## SKILLS

### MAIN

- GIS: ArcView, ArcGIS, ERDAS, ENVI, GDAL/OGR, QGIS, Mapserver
- Statistics: R
- Programming: Avenue, Python (scripting, QGIS plugins)

### ADDITIONAL

- Web: Javascript, PHP, HTML
- Fluent English

## PUBLICATIONS

Selected publications (full list is available on demand):

- Hobi M.L., Dubinin, M., Graham C.H., Coops N.C., Clayton M.K., Pidgeon A.M., V.C. Radeloff. 2017. A comparison of Dynamic Habitat Indices derived from different MODIS products as predictors of avian species richness. *Remote Sensing of Environment*, 195, pp. 142-152
- Radeloff, V. C., F. Beaudry, T. M. Brooks, V. Butsic, M. Dubinin, T. Kuemmerle, and A. M. Pidgeon. (2012). Hot moments for biodiversity conservation. *Conservation Letters*, 6, 1, pp. 58-65
- Dubinin, M., Luschekina, A., & Radeloff, V. (2011). Climate, Livestock, and Vegetation: What Drives Fire Increase in the Arid Ecosystems of Southern Russia? *Ecosystems*, 14, 547-562
- Dubinin, M., Lushchekina, A.A., & Radeloff, V.C. (2010). Assessment of modern burning regime in arid ecosystems using remote sensing data (case study of Chernye Zemli). *Aridnyye Ecosystemy*, pp. 5-16 [in Russian]

- Dubinin, M., Lushchekina, A., & Radeloff, V.C. (2010). Performance and accuracy of Argos transmitters for wildlife monitoring in Southern Russia. *European Journal of Wildlife Research*, 56, 459-463
- Dubinin, M., Potapov, P., Lushchekina, A., & Radeloff, V.C. (2010). Reconstructing long time series of burned areas in arid grasslands of southern Russia by satellite remote sensing. *Remote Sensing of Environment*, 114, 1638-1648
- Dubinin, M., Rykov D. 2010. Opensource desktop GIS: current status review. *Geoprofile*, Mar-Apr 2010. pp. 34-44 [in Russian]
- Dubinin, M., Kiselev, R., & Yanitskaya, T. "Zapovedniks, national parks and federal preserves of Russia ". St.-Petersburg, 2005 [in Russian]

## **GRANTS AND AWARDS**

- CrowdLab – crowdsourcing applications competition, 25-26.07. 2014 — 1<sup>st</sup> place (with the team) for web app (<http://te-st.ru/2014/07/30/crowdlab-materials>).
- Apps4Police — opendata competition, 2013 — 1<sup>st</sup> place (with the team) for mobile app, 2<sup>nd</sup> place (with the team) for web app (<http://www.openpolice.ru/news/obyavlenie-prizyorov-konkursa-apps4police2013>)
- Diploma of XX forum «Geoinformatics market of Russia» «For outstanding achievements», 2013 (<http://www.gisa.ru/95853.html>)
- Diploma of XVIII forum «Geoinformatics market of Russia» «For continuous implementation of open data and open software» (together with GIS-Lab), 2011
- Apps4Russia — opendata competition, 2011 — 1<sup>st</sup> place (with the team) (<http://2011.apps4russia.ru/2011/11/15/results/>)
- NASA Earth and Space science fellowship #07-Earth07F-0053
- National Geographics grant, co-PI #8360-07
- Russian UNESCO Science grant (Information system on biosphere reserves of Eurasia)
- Swiss International Development grant (Information system on Russian protected areas)
- Bachelor and master diplomas with distinction