

Joel A. Masselink

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INTRODUCTION

Joel Masselink is a geospatial consultant with over 10 years of experience in designing maps, curating datasets, and conducting analyses in support of conservation, development, and environmental projects. Joel is currently seeking a role which uses his problem-solving experience and geospatial science skillset.

EDUCATION

Clark University MA, Geographic Information Science Worcester, MA; 2009
Coursework: geospatial databases, remote sensing, environmental & land change modeling

James Madison University BS, Geographic Science Harrisonburg, VA; 2005
Coursework: GIS, spatial analysis, spatial statistics, image processing; minor in History.

WORK EXPERIENCE

Earth Logic, LLC Principal Consultant Seattle, WA; 2014 – 2015, 2018 - present

- Providing custom geospatial solutions for clients in the environmental, natural resources, and international development sectors.

SELECT CONSULTANCIES

- Great Elephant Census Forest Initiative – Data Analysis. Consultancy with Wildlife Conservation Society.
- Spatial Data Assessment of Large-Scale Infrastructure in the Lower Mekong Region. Consultancy with Wildlife Conservation Society.
- Standardizing Large Mammal Surveys to the SMART-Ecological Records Data Model for Central Africa. Consultancy with World Resources Institute.
- Cartography of DRC Protected Area network. Consultancy with World Wildlife Fund / PARAP (Protected Area System Assessment in the Democratic Republic of Congo).

Vulcan, Inc. GIS Developer, Impact Engineering Seattle, WA; 2015 – 2018

- Contributed geospatial data processing and visualization to software engineering projects.
- Provided data quality assurance, management, and mapping for large-scale wildlife surveys.

Wildlife Conservation Society GIS Coordinator Democratic Republic of Congo; 2009 – 2013

- Built GIS capacity through training, mentoring, and project management.
- Managed and analyzed spatial data for land-use planning and wildlife monitoring activities.
- Conducted land-cover mapping, land-change assessment, and species distribution modeling.

USAID Africa Bureau Intern, CARPE Democratic Republic of Congo; 2008

- Designed landscape maps for Congo Basin Forest Partnership publication, State of the Forest 2008.

NAEVA Geophysics GIS Specialist / Database Manager Charlottesville, VA; 2006 – 2007

- Managed target databases and provided GIS support for geophysical surveying projects.

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SKILL SUMMARY

- Geoprocessing using GDAL/OGR commands, Python, ArcPy, and ModelBuilder
- Familiarity with authoritative public domain and open geospatial datasets (OpenStreetMap)
- Geospatial database management (PostGIS, Esri ArcGIS Server)
- Analytical techniques using geostatistics and image processing techniques (ENVI, Earth Engine)
- Expert mapmaking skills using desktop platforms (ArcMap, QGIS) and Mapbox Studio
- Familiarity with collaborative software engineering and version control systems (Git/GitHub, SVN)
- Experienced GIS software trainer and MissingMaps mapathon facilitator
- Strong written and oral communication skills

CONTRIBUTOR TO PUBLICATION

International Union for Conservation of Nature Species Survival Commission (IUCN/SSC) Primate Specialist Group & *Institut Congolais pour la Conservation de la Nature* (ICCN). 2012. Bonobo (*Pan paniscus*): Conservation Strategy 2012–2022. Gland, Switzerland: p.65

Hickey, J., J. Nackoney, N. Nibbelink, S. Blake, A. Bonyenge, S. Coxe, J. Dupain, M. Emetschu, T. Furuichi, F. Grossman, P. Guislain, J. Hart, C. Hashimoto, B. Ikembelo, O. Ilambu, B. Inogwabini, I. Liengola, A. Lokasola, A. Lushimba, F. Maisels, **J. Masselink**, et al. 2013. Human proximity and habitat fragmentation are key drivers of the rangewide bonobo distribution. *Biodiversity and Conservation*. Vol. 22, Issue 13, p.3085-3104.

ADVISORY BOARD MEMBERSHIP / VOLUNTEERING

<i>Tusubira</i>	Treasurer & Board member	Seattle, WA; 2014 – present
Ushahidi deployment	Technical support to activists	Seattle, WA; 2017 – present
Water supply engineering	GIS support	Uganda, 2005

PROFESSIONAL ASSOCIATION MEMBERSHIP

- Global Washington - Ambassador
- OpenStreetMap US and OpenStreetMap Foundation
- Society for Conservation GIS

GEOGRAPHIC EXPERIENCE

- United States, Democratic Republic of Congo, Uganda, Philippines

LANGUAGES

- French proficiency
- Basic Luganda, Spanish, and Swahili