

# Joel A. Masselink

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Residing in: Seattle, Washington  
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## SUMMARY

- A motivated, reliable professional dedicated to project efficiency, success, and impact.
- 12 years of experience providing GIS services for conservation and international development projects.
- An accountable, empathetic leader who values diverse perspectives and demonstrates integrity.
- Polymath with a keen eye for detail, technical precision, solution design, and stakeholder support.
- Employs a diverse geospatial science skillset to address environmental and sustainability issues.
- French proficiency, cultural adaptiveness, experience working cross-culturally in low-income countries.

## WHAT I OFFER AS A GIS SPECIALIST

- Expert GIS skills developing analytical workflows, compiling data, and cartographic design
- Expertise with diverse GIS software and tools including:
  - desktop GIS/data visualization platforms – ArcMap, QGIS, Tableau, PowerBI
  - geoprocessing – GDAL/OGR, Python, ArcPy, and ModelBuilder
  - geospatial databases – PostgreSQL/PostGIS, ArcGIS Server, SpatiaLite, SQL Server, Cosmos
  - mobile data collection – ODK Collect, Trimble, Ushahidi
  - web-map design – Leaflet, Mapbox GL JS, CARTO
  - earth observation and image analysis platforms – Idrisi, ENVI, Earth Engine
- Conversant with OpenStreetMap and authoritative public domain geospatial datasets.
- Experience with designing solutions, technical training, and facilitating mapathons.
- Experience in global wildlife conservation and natural resource management in sub-Saharan Africa.
- Strong written and oral communication skills, strong leadership capacity.

## WORK EXPERIENCE

### **Earth Logic, LLC - Principal Consultant** **Seattle, WA, 2014 - present**

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

#### ***Select Consultancies***

- Great Elephant Census - Data Analysis. Consultancies with *Vulcan* and *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*.

### **Microsoft via Insight Global - Geospatial Data Analyst** **Bellevue, WA, 2018 - 2019**

- Managed releases, evaluated metrics, and performed analytics on new data sources for Bing Maps.

### **Vulcan, Inc., Impact Engineering - GIS Developer** **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 - CARPE Intern**

**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.

**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.

**CONTRIBUTOR TO PUBLICATIONS**

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. Emetshu, 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**

Tusubira-We Have Hope	treasurer & board member	Seattle, WA; 2014 – present
LUCHA-DRC	Ushahidi technical support	Seattle, WA; 2017 – 2018
Water supply engineering	GIS technical support	Uganda, 2005

**PROFESSIONAL ASSOCIATION MEMBERSHIP**

- Global Leadership Forum – Cohort XII (2019)
- OpenStreetMap US and OpenStreetMap Foundation member
- Society for Conservation GIS member & Domestic Chapter organizer

**INTERNATIONAL PROFESSIONAL EXPERIENCE**

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

**LANGUAGE SKILLS**

- English fluency; French proficiency; basic Swahili and Luganda