



Vincent Turmine

Date of Birth: 17/02/1977
Nationality: French
Languages: French, English

Chemin des tines, 18
1260 Nyon
Switzerland

Tel : +41 76 634 02 30
E-mail : vincent.turmine@gmail.com
Linkedin: [vturmine](https://www.linkedin.com/in/vturmine)

Professional Experiences

Consultancies

Aug. 2016 – March 2019

Digital Health Deployment Consultant - UNICEF Office of Innovation (USA)

Designed mobile-based applications for immunization programme, maternal health care promotion and HIV in Zambia, Indonesia, Senegal, Palestine and CAR • Supported design and implementation for birth registration and community-based violence monitoring systems in Western Africa (Mali, Benin, Senegal) • Developed a technical documentation on digital health deployment (RapidPro Health application documentation, RapidPro Health case studies, digital health toolkit, interoperability between RapidPro and DHIS2, ...) • Conducted training for UNICEF health programmes and Ministry of health on digital health design with user, RapidPro for health programme, DHIS2.

Feb. 2015 – Aug. 2016

Innovation/Real-time Monitoring Consultant - UNICEF (Senegal)

Designed and led UNICEF Senegal's Innovation strategy with Government and private sectors partners (Networks operators, IT startups, Tech Hubs, social innovators) in order to support UNICEF programmes • Deployment and implementation of [U-Report Senegal](#) (youth participation platform), and [mInfoSante](#) (emergency and health coordination platform) • Piloted birth registration monitoring system for supporting Child Protection Programme • Provided technical assistance and training to UNICEF's partners for mobile data collection (SMART Survey 2016, UNICEF field monitoring) • Provided technical assistance to the Ministry of Health for designing the national e-health strategy.

June 2012 – March 2013

IM/GIS Consultant - Sahara Conservation Fund (Niger)

Compiled and analyzed Saharan wildlife database • Designed of the Termit and Tin-Toumma Wildlife Reserve Atlas • Managed SCF's website – www.saharaconservation.org • Used web and GIS technologies to support information management of Sahara Conservation Fund.

Feb. 2012 – Aug. 2012

Monitoring & Evaluation Consultant - UNICEF (Senegal)

Compiled and analyzed indicators on the situation of children in Senegal from 2005 to 2012 • Conducted spatial analysis of the situation of children in Senegal in 2012 and Millennium Development Goals Achievements • Led data quality assessment of national statistics system • Supervised field surveys and programme monitoring tools design (MoRES) in Kolda Region.

Aug. 2011 – Feb. 2012

Remote Sensing Expert - IDEV-ic (Senegal)

Led remote sensing analysis for identifying soil degradation in Fatick and Kaolack region (Senegal) • Advised data imagery acquisition for project • Collected field data on landcover and geomorphology • Designed soil degradation algorithm and satellite imagery processing • Generated landcover and soil degradation geodatabase.

Feb. 2011 – March 2011

GIS Consultant - UNICEF (Senegal)

Compiled and analyzed data on health, nutrition, WASH and Child Protection programmes for monitoring UNICEF Senegal activities from 2009 to 2010 and created a social and health maps for supporting new country programme design.

Jan. 2010 – Dec. 2010

Webdeveloper/GIS Consultant - Sahara Conservation Fund (USA)

Designed potential reintroduction area map for Scimitar Horned Oryx from Mauritania to Chad • Participated to fellowship programme with Smithsonian Conservation & Biology Institute on GIS and Wildlife Conservation • Provided spatial analysis to elaborate distribution models on endangered species • Designed institutional communication tools and developed digital/printed marketing tools • Supported communication for ongoing Saharan conservation projects.

June 2009 – Nov. 2009

GIS Consultant - University of Portsmouth (UK)

Designed and implemented a mapping project on marine resources uses and environmental cost for the Ecost Project for 6 study areas across West Africa, Caribbean islands and Southern East Asia (EU / UoP) • Conducted multi-temporal West African fisheries migrations mapping (IUCN / UoP).

Feb. 2009 – Dec. 2009

IM/GIS Consultant - Projet Antilopes Sahelo-Sahariennes (Niger)

Created data model, mobile data collection tools, and led mapping project of antelopes conservation in Niger • Implemented GIS database for antelopes distribution and conservation • Developed Modis NDVI and Landsat ETM imagery analysis to characterize antelopes habitat in the Sahara • Designed and managed digital promotion materials for the project (website design, newsletter, posters).

Employments

July 2013 – December 2014

Information Management Specialist - UNICEF (Mali)

In charge of information management and technology for development at UNICEF: • Developed and managed databases and GIS for all sections and clusters • Designed and led Innovation strategy at UNICEF with a focus on real-time monitoring and mobile data collection • Provided technical support and training for Cluster IMs and field officers on data collection and information management • Participated to IM working group and technical committees of cross-sectorial programmes (Resilience national plan, Ebola response, North Mali Humanitarian response plan, Cash transfer and Safety-net working group).

Jan. 2006 – Dec. 2009

Research Assistant - Institut de Recherche pour le Développement (Senegal)

Assisted Scientists and PhD candidates at the Economy, Ethics and Environment Center: led experimental field research on decision making tools for sustainable development on coastal area in West Africa • Analyzed spatial data for supporting economic and social studies of marine resources management in Senegal, Guinea and Bissau Guinea • Provided technical support on remote sensing and spatial analysis for resident students • Developed a community-led marine research and information center within fishermen community in Mbour (Senegal) • Designed GIS training courses for University of Dakar and French embassy of Guinea fellows.

Aug. 2003 – Dec. 2005

GIS Technical Lead - Senagrosol Consult (Senegal)

As Technical Lead of GIS unit for a consulting firm on economics, sociology and agricultural studies: designed and conducted GIS and remote sensing works to support projects and studies, in collaboration with sectoral and technical experts • Supervised GIS assistants and web developers with GIS unit • Prepared and ran training courses in GIS technologies for clients and staff.

Sept. 2002 – Jan. 2003

Research Assistant - University of Paris 7 (France)

As PhD candidate at University of Paris 7, GIS & Remote Sensing Laboratory - Polimages: Designed a land cover geodatabase of coastal swamps in West Africa within integrated coastal management research project • Organized a satellite imagery database on the coastal area in West Africa • Developed satellite-based algorithm for coastal erosion and sedimentology evolution.

July 2002 – Aug. 2002

GIS Assistant - Geoscience Consultants (France)

Temporary staff within GIS unit: • Implemented a flood disaster database in the Normand coastal area (France) • Landcover using Ikonos imagery to prepare for oil prospection into the Libyan Desert.

Education

2001

DEA Geomorphology and natural disasters - University of Paris 7 (Eq. Master's degree)

2000

Maitrise Physical Geography- University of Paris 7

1999

Licence Geography-Spatial Planning and Landscape. University of Cergy-Pontoise (eq. Bachelor)

Fellowship

2010

GIS & Wildlife Conservation Fellowship - Smithsonian Conservation & Biology Institute (VA, USA)

Developed prediction models for spatial distribution of antelopes and gazelles in Tin Toumma Desert, Niger that accurately predicted migration patterns.

Skills & qualifications

Core skills

- High expertise on information management and database management systems specially using open-data and open source systems
- Expertise on technology for development concepts (ideation, human centered design, prototyping and implementation)
- Excellent knowledge on mobile technologies for data collection, real time monitoring and advanced mobile services for users and Health Information Systems (DHIS2)
- Advanced knowledge of data management and GIS/Remote Sensing tools
- Capabilities to design and conduct technical trainings for multiple audiences on new technologies and complex systems.

Software knowledge

- Database and GIS: ArcGIS, QGIS, Erdas, Excel, Access, Tableau, mySQL, SuperSet, R
 - Mobile Data collection: RapidPro, ODK, ONA, Kobo, Magpi, Formhub, Akvo Flow
 - Web development: html, CSS, php, Django CMS.
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Publications

Stabach J.A., Rabeil T., Turmine V., Wachter T., Muller T., and Leimgruber P. (2017): "On the brink of extinction - Habitat selection of addax and dorcas gazelle across the Tin Toumma desert, Niger"; Diversity and Distributions, Volume 23 Issue 6, June 2017 [Link](#).

Rabeil T., Turmine V. (2016): Atlas de la réserve naturelle nationale du Termit-Tin Toumma (Niger), Sahara Conservation Fund, rapport, septembre 2014, 68 p. [Link](#).

Failler P., Binet T., Agossah M., Benassi S., Turmine V. (2015): "Pêche migrante et aires marines protégées en Afrique de l'ouest". In Bonnin M., Lea R., Behnassi M., editors, Aires marines protégées ouest-africaines: Défis scientifiques et enjeux sociétaux. 1st ed. 13572 Marseille, France: IRD. 2015. p. 143-156. 7. (Brief - 2015), [Link](#).

de Milliano, M., Handa S., Strother S., Sidibe T. and Turmine V. (2014): "Child Poverty and Deprivation in Mali : The First National Estimates", Innocenti Working Papers, n° 2014/20, ONU, New York, [Link](#).

Turmine V. (2013): Evaluation des systèmes statistiques de routine de la région de Kolda, UNICEF Senegal, rapport, septembre 2013, 31 p., [Link](#).

Turmine V. (2013): Atlas de la situation des enfants au Sénégal en 2012 ; UNICEF Senegal, rapport, mai 2013, 62 p.

Turmine V. (2013): Etat des lieux des Indicateurs OMD au Sénégal en 2012 ; UNICEF Senegal, rapport, mai 2013.

Binet T., Failler P., Turmine V., Agossa M. (2013): "La pêche migrante ouest-africaine ou l'ignorance d'une menace permanente pour la biodiversité marine" ; Bonnin M. Ed. Changements climatiques et aires protégées : Les Suds en quête d'un modèle durable, IRD éditions, 2013.

Binet T., Failler P., Bailleux R. & Turmine V. (2013) : "Des migrations de pêcheurs de plus en plus conflictuelles en Afrique de l'Ouest " ; Revue africaine des Affaires maritimes et des Transports, Articles et études doctrinales, Juillet 2013 ,N°5 /51.

Turmine V., Binet B. & Failler P. (2011): "L'usage de la télédétection pour l'évaluation économique des écosystèmes marins : application à l'aire marine protégée de Tristão en Guinée" ; Vertigo - la revue électronique en sciences de l'environnement, Volume 11, Numéro 3, Décembre 2011, DOI : 10.4000/vertigo.12234, [Link](#).

Toure N., Kane A., Noël JF., Turmine V., Nedeff V., Lazar G. (2011): "Water-poverty relationships in the coastal town of Mbour (Senegal): Relevance of GIS for decision support" ; International Journal of Applied Earth Observation and Geoinformation (Impact Factor: 2.54). 01/2012; 14:33-39. DOI: 10.1016/j.jag.2011.08.001.

[All Publications](#)

Volunteership

Open Street Map / HOT – Map contributor
Healthsites.io – Data collection contributor
Handball Club de Nyon – Coach assistant (under 11)