

Samy Bouma Ngock, MSc., GISP

Level II security clearance

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SUMMARY & OBJECTIVE

Versatile GIS Professional with over 20 years of experience leveraging geospatial and information technology to drive strategic decision-making, optimize operations, and foster transformative change. Eager to step into a leadership role to shape organizational strategy and growth by enabling location intelligence.

CORE COMPETENCIES & SKILLS

- Transferable technical, organizational and interpersonal skills honed across many industries
- Problem-solving | Research | Collaboration / Teamwork | Customer service | Leadership | Adaptability
- Project management | Cross-functional team support | Agile and Waterfall developments
- Bilingual | Exposure to multicultural environments in North America, Europe and Africa
- Continuing education | Commitment to excellence | Community involvement
- Remote sensing | Data Science | Machine learning | Data analytics and visualization | Reporting
- Data collection | Database management | GIS Desktop / Web | Programming / ETL / Automation
- Python / JavaScript / R / SQL | M365 Technology | ESRI Technology

EDUCATION

Continuing education

Leadership

- Manager Development Program, Canada School of Public Service, 2023
- Officer Professional Military Education, Royal Military College of Canada, 2011

Coursera Specialization

- Generative AI for Software Developers, IBM, 2025
- Machine Learning: Algorithms in the Real World, Alberta Machine Intelligence Institute, 2023
- Data Engineering, Big Data, and Machine Learning, Google Cloud Training, 2021
- Security in Google Cloud, Google Cloud Training, 2021
- PostgreSQL, Michigan University, 2021
- Data Science, Johns Hopkins University, 2016

Language proficiency

- Profile ECC in English, Public Service Commission of Canada, 2011-Present

Université du Québec à Montréal

- Master of Sciences in Geography, 2009
- Specialized Postgraduate Diploma in Geographic Information System, 2006

EXPERIENCE

GIS Analyst | Science Specialist

Canadian Food Inspection Agency, Parksville, BC, Canada | Nov. 2021-Present

Industry: Government, Health

Technical expertise: ArcGIS, Python, R, SQL, M365 Power Automate, Power BI, SharePoint

- Conduct R&D with GIS and Generative AI technology to support programs
- Develop IM pipelines for food, animal, and plant advisory committees
- Manage regional geospatial activities for Emergency Response preparedness

GIS Technician | Project Management

Department of National Defence, CFB 19 Wing, Comox, BC, Canada | Mar. 2018-Nov. 2021

Industry: Government, Defence, Real Property Operations

Technical expertise: ArcGIS, Python, AutoCAD, Power BI

- Managed LiDAR surveys to identify airfield Obstacle Limitation Surfaces
- Led geospatial Real Property Inventory initiatives for engineering and capital improvement projects

GIS Scientific Technical Officer

BC Public Service - GeoBC, Victoria BC, Canada | Sep. 2015-Mar. 2018

Industry: Government, Natural Resources

Technical expertise: ArcGIS, Python, JavaScript, R, SQL

- Developed GIS-based IM applications for the management of natural resources in BC
- Improved Wildfire Emergency Response protocols for multi-jurisdiction decision-making
- Co-launched the PyMe Mentorship Program

Awards & Honours:

- BC Public Service award for excellence in client service
- BC Public Service award for excellence in developing others

GIS Specialist

United Nations Peacekeeping Operations MINUSMA, Bamako, Mali | Dec. 2013-Feb. 2015

Industry: International Affairs

Technical expertise: ArcGIS, Python, SQL, ERDAS Imagine

- Developed geospatial products for various peacekeeping mission requirements
- Coordinated geological survey fieldwork with multinational military teams

Aeronautical Coordinator Assistant

Department of National Defence, CFB 8 Wing, Trenton, ON, Canada | Aug. 2010-Dec. 2013

Industry: Government, Defence, Search And Rescue (SAR)

Technical expertise: ArcGIS

- Developed geospatial products for SAR operations worldwide
- Coordinated SAR operations with multi-jurisdiction stakeholders

CERTIFICATIONS & CLEARANCES

- Generative AI Engineering Professional Certificate, IBM, completion scheduled in 2025
- GIS Professional certification, GIS Certification Institute, 2015-Present
- Security Clearance Level II, Canadian Food Inspection Agency, 2021-Present
- Security Clearance Level III, Department of National Defence, 2010-2013

COMMUNITY INVOLVEMENT

- Government of Canada National Managers' Community (CSPS-NMC), 2023-Present
- ESRI Community (Emerging Contributor), 2015-Present
- Geospatial Professional Network (URISA BC Chapter), 2015-2016
- Coach in Orienteering, 704 Air Force City Squadron, 2012-2013

PUBLICATIONS

Military Thinking, 2011

- History of Canadian military geography: merely a story of military mapping
- Unmanned aerial vehicle: not a magic bullet for Canadian military

Water Resources Management, 2007-2010

- Model Driven Approach for an Integrated Decision Support System in Watershed Management
- Implementation of an integrated decision support system (IDSS) for water management in Souss-Massa Morocco
- Une méthode pour estimer le volume des lacs de la région de Mont-Tremblant à l'aide des SIG

Transportation, 2005

- Développement de systèmes d'information pour la gestion d'équipement des réseaux de transport