



# H  l  ne BLEY DALOUMAN, Ph.D. researcher

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## 1. Basic information

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- o Personal data

Name: H  l  ne-Jos  phe BLEY DALOUMAN

ORCID: <https://orcid.org/0000-0002-0857-6974>

ResearchGate: <https://www.researchgate.net/profile/Helene-Bley-Dalouman>

Google Scholar: <https://scholar.google.fr/citations?hl=fr&user=EODNxhsAAAAJ>

- o Highlights

As a holder of a PhD in Geography (specializing in Geomatics), I am particularly interested in remote sensing methods and tools that enable the characterization and monitoring of changes in land cover.

My research aims to better understand environments that are vulnerable to climate change and human pressures. It incorporates data from multiple sources, including satellite, geographic, environmental, and economic data. It also integrates a multidisciplinary approach that has enabled me to address issues related to the characterization of exotic forest stands in an island and rugged territory such as R  union Island, as well as the detection and description of changes affecting the vegetation of summer grasslands in the French Alps. These works have been promoted in the form of publications and presentations at scientific events in France and abroad.

My skills in geomatics and teaching also lead me to teach in Bachelor's and Master's degree programs in Geography or Urban Planning, combining methodology and practice for the creation of maps (practical work introducing geographic information systems, including the acquisition, processing, and representation of geographic data).

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## 2. Education

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- o Degrees

**12/2023**      **PhD in Geography** - Universit   de Montpellier, France

Thesis title: *Spatial approaches to characterizing forest stands in a tropical and constrained environment. Application to the use of Acacia Mearnsii for wood energy in R  union*. Supervision: Fran  ois BROUST, Annelise TRAN

**06/2020**      **Master's Degree in Geomatics** co accredited by Universit   de Montpellier, Universit   Paul Val  ry, AgroParisTech

**06/2018**      **Bachelor's Degree in History** - Universit   Lyon 3

**06/2017**      **Bachelor's Degree in Geography** - Universit   Lyon 3

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### 3. Professional experience

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- o Professional experience

**12/2024 - 11/2025**      **Postdoctoral Researcher:** Monitoring vegetation in the Alps pasture using remote sensing and semantic description techniques

Laboratoire Informatique de Grenoble (LIG) in Universit   de Grenoble Alpes (UGA)

**09/2020 - 12/2023**      **Doctoral Researcher**

UR BioWooEB and UMR TETIS in Centre de coop  ration internationale en recherche agronomique pour le d  veloppement (CIRAD)

**02/2020 - 09/2020**      **Internship:** Implementation of procedures for large image tiling for the redesign of the geographic data infrastructure.

Occitanie Pyr  n  es en Intelligence G  omatique (OpenIG)

- o Teaching experience

I supervised **40 hours of practical works (PW) at Bachelor and Master Level** at the Universit   Grenoble Alpes

**09/2025 – 12/2025** Vacation teaching: Geographic and Geomatic Information (PW 20h)

**01/2025 – 04/2025** Vacation teaching: Tools for the Representation and Processing of Spatial Data (PW 20h)

- o Academical supervising

I have acted as an **educational supervisor for 1 Master’s Dissertation.**

Rouabah Mohammed, 2025. Cin  matique des glaciers rocheux en transition. Grenoble : Institut d’Urbanisme et de de G  ographie Alpine, 87 p. M  moire de master 1 : G  omatique et Analyse Spatiale, IUGA.

- o Academical examining

I have acted as an **external examiner for 1 Master’s dissertation.**

Masimula Ntandokazi, 2025. Exploring the utility of sentinel-2 imagery in combination with environmental variables for monitoring *Acacia mearnsii* and *Pinus pinaster* in the fynbos biome. Cape Town: University of Cape Town, 54p. Master’s degree: Ecological/Environmental Statistics, Department of Statistical Sciences, University of Cape Town.

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## 4. Work valorization

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- o Publications and conference acts

**Bley Dalouman, H.**, Bernard, C., Dusseux, P., 2025. Annotation s  mantique de donn  es de t  l  d  tection. Description de changements de v  g  tation dans les alpages    partir de s  ries temporelles Sentinel-2, SAGEO. Avignon, France.

Xia, Z., Alleaume, S., de Boissieu, F., Dalle, J.-E., **Bley Dalouman, H.**, Broust, F., Tran, A., Durrieu, S., 2023. Potential of high-density LiDAR data for the characterization of *Acacia mearnsii* wood resource for the wood energy sector in Reunion Island. Presented at the SilviLaser 2023.

**Bley Dalouman, H.**, Broust, F., Tran, A., 2023. Combining remote sensing and a geographic information system to map and assess the accessibility of invasive alien species forest stands: Case of *Acacia mearnsii* on Reunion Island. *Forests* 14, 2030.

**Bley Dalouman, H.**, F. Broust, J. Prevost and A. Tran, 2021. "Use of Very High Spatial Resolution Imagery for Mapping Wood Energy Potential from Tropical Managed Forest Stands, Reunion Island." *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XLIII-B3-2021: 189-194.*

- o Conferences and academic talks (without proceedings)

**Bley Dalouman, H.** [Doctoriales (2021, 2022, 2023)]. « Mod  lisation dynamique    l'  chelle territoriale de fili  res bois   nergie. Application    l'analyse prospective de scenarios de valorisation d'*Acacia Mearnsii*    la R  union. »

**Bley Dalouman, H.**, F. Broust and A. Tran, 2022. « Cartographie d'esp  ces foresti  res exotiques envahissantes et analyse de leur exploitabilit   en terrain tropical par des approches de t  l  d  tection et SIG. Application    l'  valuation du gisement d'*Acacia mearnsii*    la R  union. ». *Les Rencontres G  omatiques de la R  union et de l'oc  an Indien, Saint Denis, La R  union.* sciencesconf.org:rgr2022:425629

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## 5. Continued training and other educational aspects

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- o Language Skills

French: Native

English: B2