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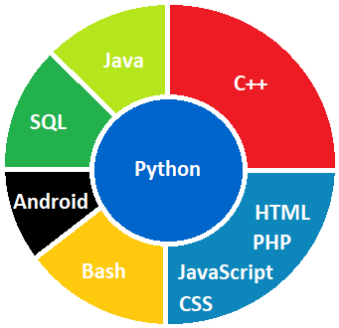
hulecom.github.io

Programming



OS Ability
Linux ★★★★★
Windows ★★★★☆

Languages
French ★★★★★
English ★★★★☆
TOEIC (905)
Spanish ★☆☆☆☆

Driving Licence
Full, clean

Hugo LECOMTE

PhD STUDENT IN GEODESY
Geomatics Engineer

Education

2016 - 2019 Master's Degree in Geomatics Engineering — ENSG
3^{rd} year specialisation: Photogrammetry, Positioning and Measurement of Deformations (PPMD)
Geodesy, Remote sensing, Photogrammetry and Programming
and also Land surveying, GIS, Cartography

2014 - 2016 Two-year preparatory courses for competitive examination to enter Engineering school — Grenoble

Professional Experience

11/20 - 10/23 PhD student in geodesy — ITES, University of Strasbourg
Magnetic, gravimetric and geodetic constraints on the dynamics of the fluid core
Gravimetry - Geomagnetism - GRACE

10/19 - 10/20 Research and Development Engineer — IGN
Creation and treatment of time series with Sentinel 1&2 images to classify crop type (Monitoring PAC),
Geodesy instruction (Geodetic reference system: Lecture courses and practical exercises)
Remote sensing - Geodesy - Database - Radar

Experience in Geomatics

05/19 - 09/19 5-months Intership — National Land Survey of Iceland
«Geodesy in a complex environment, Icelandic references frames»
Geodesy - Programming

10/18 - 03/19 Geodetic programming project — IFFSTAR
«Creation of an automatic computation software for a GNSS network with RTKlib»
Python (PyQt), Bash, Make - GNSS

05/18 - 08/18 12-week Intership for the Paris Observatory — SYRTE and LAREG laboratory
«Determination of a high spatial resolution geopotential on coastal area using atomic clock measurements»
Chronometric Geodesy - Programming (Python, Bash, Fortran)

10/17 - 01/18 Reasearch project — IGN, DPTS laboratory
«Calculate the indetermination on the determination of speed on GNSS station which realised the ITRF 2014»
Geodesy – Python Programming – Least-squares method– BigData

Extra Curricular Activity

2020-2022 Member of Committee4PhD, PhD & postdoc lab committee — ITES
Organisation of seminars and coffee breaks for PhD & postdoc

Teaching

2019-2023	General introduction to geodetic systems for 3rd year engineering students (PPMD)	ENSG
2019	Coaching of computer programming projects for 3rd year engineering students Refresher course in geodesy and field school for 1st year technical degree students	ENSG
2020-2023	PhD additional education missions -Tutorial classes in space geodesy for 1st year engineering students (Radar & INSAR) -Tutorial classes in geodesy for 2nd year engineering students (GNSS & reference frames) -Tutoring classes in Mathematics for 1st year bachelor students -Practical work in Python applied to geodesy for 1st year engineering students -Field school for 2nd year bachelor students (LIDAR)	EOST

Collaborations

2020-2023	**Member of the GRACEFUL project** IPGP, ISTERRE, ITES, Uni. La Rochelle, Royal Obs. Belgium, MAGELLIUM Half-yearly meeting	ERC Synergy Grant N°855677
2020-2023	**Active participation to gravity-toolkit python library** Debugging and new functionalities implemented in the original T. Sutterley repository	GitHub

Publications

2023	**Uncertainty of Low-Degree Space Gravimetry Observations: Surface Processes Versus Earth's Core Signal** H. Lecomte, S. Rosat, M. Mandea, J-P. Boy, J. Pfeffer	JGR: Solid Earth
2023	**Gravitational constraints on the Earth's inner core differential rotation** (in review) H. Lecomte, S. Rosat, M. Mandea, M. Dumberry	GRL

Conferences

(full list on personnal **website**)

07/23	**GRACE/SLR-based Gravity Field and the Earth's Core: New Estimates for Parameters of Key Core Processes** (invited talk) H. Lecomte, S. Rosat, M. Mandea, M. Dumberry	IUGG
12/22	**Observability of the Earth's core signals and geomagnetic jerks in GRACE-based gravity field.** (poster) H. Lecomte, S. Rosat, M. Mandea, M. Dumberry	AGU Fall Meeting
10/22	**Comparison of gap-filling temporal methods to improve GRACE and GRACE-FO time series.** (presentation) H. Lecomte, S. Rosat, M. Mandea	GSTM
12/21	**On The Detectability Of The Earth's Core Signal Using Space Gravity Measurements.** (poster) H. Lecomte, S. Rosat, M. Mandea	AGU Fall Meeting
11/21	**Comparaisons des solutions gravimétriques spatiales GRACE avec les surcharges hydrologiques.** (presentation) H. Lecomte, S. Rosat, M. Mandea	Colloque du G2
10/21	**Comparison of SWARM and GRACE time-variable gravity field at low degree spherical harmonics.** (poster) H. Lecomte, S. Rosat, M. Mandea	SDQW