Khanh-Ninh Nguyen

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Education

2020 – Now	**University Paris Cité - ED560 STEP'UP (Earth and Environment Science and Physics of the Universe in Paris)**, Ph.D., in Earth and Environment Science / Geodesy
2019 — 2020	**University Paris Cité**, Master 2 Fundamentals of remote sensing (FRS-MPT)
2018 — 2019	**Ecole Polytechnique - University Paris Saclay**, Master 2 Water, Air, Pollution and Energy (WAPE)
2017 — 2018	**University of Science and Technology of Hanoi**, Master 1 Advanced Materials Science and Nanotechnology (NANO)
2013 — 2017	**Hanoi National University of Education (HNUE)**, Talent Bachelor program - Physics
2010 — 2013	**Chu Van An High School for the Gifted**, High school Diploma in Math Major

Working experiences

2020 – Now	PhD candidate, **Geodesy team at IPGP (Institut de Physique du Globe de Paris) - IGN (Institut national de l'information géographique et forestière)** **Title**: Detection of trends and climatic variability in atmospheric humidity estimated by GNSS observations and global and regional reanalyses over the last decades Supervisors: Dr. O. Bock (IPGP-IGN) and Prof. E. Lebarbier (Paris Nanterre University)
Summer 2020	Research Intern, **Geodesy team at IPGP - IGN** **Title**: Homogenization of GNSS Integrated water vapour time series and analysis of climate trends Supervisors: Dr. O. Bock (IPGP-IGN)
Summer 2019	Research Intern, **Laboratory for Studies of Radiation and Matter in Astrophysics - Paris Observatory** **Title**: Analysis of radar backscattering data for the estimation of aerodynamic roughness length in arid and semi-arid regions Supervisors: Dr. C.Prigent (Paris Observatory)
2017 — 2018	Physics Teacher, **Lophocvui (https://courses.lophocvui.com/) - Education company**, Create Physics Online Course and develop online learning system

Publications

09/2021	Nguyen KN, Quarello A, Bock O, Lebarbier E. **Sensitivity of Change-Point Detection and Trend Estimates to GNSS IWV Time Series Properties**. Atmosphere. 2021; 12(9):1102. https://doi.org/10.3390/atmos12091102
01/2023	Nguyen KN, Bock O, Lebarbier E. **A statistical method for the attribution of change-points in segmentation of IWV difference time series** submitted to Internaltional Journal of Climatology (under review). Link: https://github.com/khanhninhnguyen/statistical_attribution

Conference/Workshop/Summer School

12/2022   A new method for the attribution of breakpoints in segmentation of IWV difference time series, Nguyen Khanh Ninh, Bock Olivier, and Lebarbier Emilie, **AGU Fall Meeting 2022**, Chicago, IL, 12 − 16 December 2022.

07/2022   **3$^{\mathrm{rd}}$ Summer School on Theory, Mechanisms and Hierarchical Modeling of Climate Dynamics: Tropical Oceans, ENSO and their teleconnections**. ICTP, Trieste (Italy). `https://indico.ictp.it/event/9817/overview`

05/2022   A new method for the attribution of breakpoints in segmentation of IWV difference time series, Nguyen Khanh Ninh, Bock Olivier, and Lebarbier Emilie, **EGU General Assembly 2022**, Vienna, Austria, 23 − 27 May 2022, EGU22 − 6390, `https://doi.org/10.5194/egusphere-egu22-6390,2022`.

05/2021   Sensitivity of segmentation of GNSS IWV time series and trend estimates to data properties, Nguyen Khanh Ninh, Annarosa Quarello, Bock Olivier, and Lebarbier Emilie, **EGU General Assembly 2021**, online, 19 − 30 Apr 2021, EGU21 − 16099, `https://doi.org/10.5194/egusphere-egu21-16099,2021`.

           Sensitivity of segmentation of GNSS IWV time series and trend estimates to data properties, Nguyen Khanh Ninh, Bock Olivier, and Lebarbier Emilie, **Journées Recherche de l'IGN**, 25 − 28 May 2021.

03/2021   **ICCC workshop "Geodesy for Climate Research"** (Partipant). 29 − 31, Mar, 2021, online, `https://iccc.iag-aig.org/iccc-workshops/ws21`

Awards and Scholarship

2020 – 2023   PhD Fellowship granted by The Earth and Environment Science and Physics of the Universe in Paris Doctoral School

04/2018   The 1st prize in "University of Science and Technology of Hanoi 20" innovative and creative research ideas competition 2018

09/2017   Scholarship for outstanding student in University of Science and Technology of Hanoi

05/2017   Top 3 in "The Student Research Conference" in Hanoi National University of Education

References

Dr. Olivier Bock
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Géodésie et Atmosphère
IPGP - IGN

Prof. Emilie Lebarbier
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🏢 Professor
UFR des Sciences Economiques Gestion Mathématiques Informatique (SEGMI)
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