

# CURRICULUM VITAE



**1. Name:** Nguyen, Hoang Anh

## 2. Education

Year	Institution	Degree
Nov 2012 – Dec 2016	Postdoctoral researcher at the Institute of Geocology –University of Technology Braunschweig, Germany	
Jan 2012 – May 2012	Visiting Scholar at Duke University - USA	
2007 – 2011	PhD Student at the Institute of Geocology –University of Technology Braunschweig, Germany	Dr.rer.nat (PhD in natural sciences)
2004 – 2006	Study at the Institute for Environment & Resources – VNU-HCMC, Vietnam	Master of Engineering
1996 – 2002	Study at the Faculty of Geology & Petroleum – Univ. of Technology – VNU-HCMC, Vietnam	Bachelor of Engineering

## 3. Experiences

- Ecological and biological Modelling
- Scale-adequate application of integrated model systems.
- Remote sensing & GIS
- Environmental geology

## 4. Projects (recent 5 years)

- Development of a mathematical model to support in optimizing forest management strategies in response to environmental pollution and climate change (21.20/IER/DV/HDKT, 2020)
- Building a model for simulation of the “Dose - Response” between pesticide application and disease spread on Pepper crop cultivation to support for the

development of solutions for cleaner farming practices in agriculture (B2019-24-02/HD-KHCN, 2019 - 2021)

- Creating a model for predicting long-term responses of mangrove forests to changing environmental conditions (NAFOSTED 105.99-2017.12, 2017 - 2019)
- Monitoring and simulating the absorption of contaminated substances by mangrove plants. Subproject 5 of the Vietnamese – German Cooperation Project (EWATEC-COAST) (09/2012 – 10/2015)

## 5. Publications

1. Le, B.V.Q.; **Nguyen, A.**; Richter, O.; Nguyen, T.T. Comparison of Frequentist and Bayesian Generalized Linear Models for Analyzing the Effects of Fungicide Treatments on the Growth and Mortality of Piper Nigrum. *Agronomy* 2021, 11, 2524.
2. Das Biosphärenreservat C n Gi  in Vietnam in einer sich wandelnden Umwelt. In: *Jahrbuch 2020 der Braunschweigischen Wissenschaftlichen Gesellschaft*. Braunschweig: Cuvillier. S. 309–324. Online unter: [https://publikationsserver.tu-braunschweig.de/receive/dbbs\\_mods\\_00069735](https://publikationsserver.tu-braunschweig.de/receive/dbbs_mods_00069735). DOI:10.24355/dbbs.084-202109031200-0
3. **Nguyen, A.**; Richter, O.; Le, B.V.Q.; Phuong, N.T.K.; Dinh, K.C. Long-Term Heavy Metal Retention by Mangroves and Effect on Its Growth: A Field Inventory and Scenario Simulation. *Int. J. Environ. Res. Public Health* 2020, 17, 9131.
4. **Nguyen, A.**; Le, B.V.Q.; Richter, O. The Role of Mangroves in the Retention of Heavy Metal (Chromium): A Simulation Study in the Thi Vai River Catchment, Vietnam. *Int. J. Environ. Res. Public Health* 2020, 17, 5823.
5. Sandra Costa-B ddeker, Philipp Hoelzmann, L  Xu n Thuy n, Hoang Duc Huy, **Hoang Anh Nguyen**, Otto Richter, Antje Schwalb „*Ecological risk assessment of a coastal zone in Southern Vietnam: Spatial distribution and content of heavy metals in water and surface sediments of the Thi Vai Estuary and Can Gio Mangrove Forest*“. *Marine Pollution Bulletin* xxx (2016) xxx–xxx
6. Kim Linh Nguyen, **Hoang Anh Nguyen**, Otto Richter, Minh Thinh Pham, Van Phuoc Nguyen „*Ecophysiological responses of young mangrove species Rhizophora apiculata (Blume) to different chromium contaminated environments* “ - *Science of the Total Environment* 574 (2017) 369–380
7. **Hoang Anh Nguyen** and Otto Richter “*Multiscale modeling of pollutant uptake by mangroves*” – *Int. Jnl. of Multiphysics* Volume 10 · Number 2 · 2016

8. O. Richter, **H.A. Nguyen**, K.L. Nguyen, V.P. Nguyen, H. Biester, P. Schmidt *“Phytoremediation by mangrove trees: Experimental studies and model development”* - Chemical Engineering Journal 294 (2016) 389–399
9. **N. H. Anh**, O. Richter, and N. V. Phuoc *“Multiphysics Modeling of Pollutant Uptake by Mangroves”* – Proceedings of the 6th International Conference on High Performance Scientific Computing, Hanoi, Vietnam - March 16-20, 2015
10. **Hoang Anh Nguyen**, Otto Richter, Duc Hoan Huynh, Kim Linh Nguyen, Marit Kolb, Van Phuoc Nguyen, Tran Tran Bao „ *Accumulation of contaminants in mangrove species Rhizophora apiculata along ThiVai River in the South of Vietnam* “EWATEC-COAST: Technologies for Environmental and Water Protection of Coastal Zones in Vietnam. Contributions to 4th VNU – HCM International Conference for Environment and Natural Resources, ICENR 2014. Cuvillier, Göttingen, Germany. ISSN: 2363-7218. ISBN: 978-3-95404-852-6
11. Otto Richter, Mona Richter, **Nguyen Hoang Anh**, Merimee Yanke und Janin Rummland „*Multiphysik-Ansätze in der Biologie*“ - der Braunschweigischen Wissenschaftlichen Gesellschaft, S. 77-94, Jahrbuch 2013
12. Otto Richter, **Hoang Anh Nguyen**, Van Phuoc Nguyen *“Modeling Phytoremediation by Mangroves”* – Comsol Conference, Rotterdam 2013
13. **Hoang Anh Nguyen**, Otto Richter, Van Quy Pham *“A systems ecology approach based on the combination of remote sensing and process modeling and its application to mangrove ecosystem in Vietnam”* - International Conference on The Future of Biodiversity, Giessen, Germany, August 2010
14. Kazuyo Hirose, Yuichi Maruyama, Huynh Thi Minh Hang, **Nguyen Hoang Anh**, Tran Triet and Vien Ngoc Nam *“Coastal Environmental monitoring by satellite data” International Conference on DELTAS (Mekong venue) : Geological Modeling and Management*. January 10 – 16, 2005. HoChiMinh City, Vietnam, page 26
15. Huynh Thi Minh Hang and **Nguyen Hoang Anh** *“Applying Geological understanding in Development planning and Environmental management for estuarine area: case study of CanGio – HoChiMinh City, Vietnam”* International Conference on DELTAS (Mekong venue) : Geological Modeling and Management. January 10 – 16, 2005. HoChiMinh City, Vietnam, page 32
16. Huynh thi Minh Hang and **Nguyen Hoang Anh**. *“Geoinformatics and Landuse planning for the wetland - Case study of Cangio - Hochiminh City- South Vietnam.”* Environmental Informatics 2004 ISEIS-2004 Regina, August 25 <http://www.iseis.org/EIA/abstract.asp?no=03046>

17. Kazuyo HIROSE, Mizuhiko SYOJI, Huynh Thi Minh HANG, **Nguyen Hoang ANH**, Tran TRIET and Vien Ngoc NAM ***“Satellite Data application for Mangrove management”*** International symposium on Geoinformatics for Spatial – Infrastructure Development in Earth and Allied Sciences, Hanoi, VN, 16 – 18 September 2004, page 189
18. Huynh Thi Minh HANG, Do Van QUY, Tran TRIET, **Nguyen Hoang ANH**, Kazuyo HIROSE, Yuichi MARUYAMA and Yuichi SHIOKAWA ***“Geo–Environmental Research for CanGio Mangrove Forest, Vietnam”*** Asian Journal of GEOINFORMATICS, March 2003. page 3
19. Huynh thi Minh Hang and **Nguyen Hoang Anh**. ***“Applying Geoinformatics in landuse planning and environmental management for the wetland - Case study of Cangio - Hochiminh City- South Vietnam.”*** - The 4<sup>th</sup> General Seminar of the Core University Program “Environment Science and Technology for Sustainable Development”, July 14 – 15, 2003. page 122
20. Huynh Thi Minh HANG, Do Van QUY, Tran TRIET, **Nguyen Hoang ANH**, Kazuyo HIROSE, Yuichi MARUYAMA and Yuichi SHIOKAWA ***“Geo-Environmental Research for Environmental Changes of Can Gio Mangrove Forest, Vietnam”***- International Symposium on Geoinformatics for Spatial Infrastructure Development in Earth and Allied Sciences 2002.