

NGUYEN Truong An

Personal info

Date of birth: 09 March 1993

Address: Institute of Environmental Geosciences (IGE), Grenoble, France

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Education

Doctorat Université Grenoble Alpes 11/2018-present

École Doctorale Terre Univers Environnement

Subject: *modeling nutrients dynamics in the tidal estuarine system and application to eutrophication risk management*

Institut polytechnique de Grenoble (Grenoble INP) 09/2017-08/2018

Master 2 degree in Hydraulic and Civil Engineering

Subject: *modeling nutrients dynamics in the tidal estuarine system: a case study in Saigon River, Vietnam*

Ho Chi Minh City University Of Technology (HCMUT) 09/2011-04/2016

Engineering degree in Environmental Management and Technology

Subject: *antibiotics pollution in Saigon River, Vietnam*

Professional experience

Internship 02/2018-07/2018

At Institut des Geosciences de l'Environnement (IGE), Grenoble INP, France.

Responsibilities: *implementing a nutrients dynamics model in Saigon River with the help of C and Matlab.*

Principal investigator 12/2016-08/2017

study on the removal of EDCs and nutrients by constructed wetlands.

Responsibilities: *designing a pilot-scale and analyzing the water samples.*

Technician 06/2015-06/2017

At Centre Asiatique de Recherche sur l'Eau (CARE), Vietnam.

Responsibilities: *sampling water and operating ICP-OES, TOC-V analyzer.*

Research assistant 05/2015-12/2016

In a project at HCMUT: development the passive sampling for analyse of antibiotics in water.

Responsibilities: *sampling and pre-treatment for measurement antibiotic samples.*

Internship 06/2014-09/2014

At Environmental Modelling and Software (EMSLab), HCMUT, Vietnam.

Responsibilities: *interpreting precipitation from remote sensing by ArcGIS and Matlab.*

Publications

Scientific journals:

- **A. T. Nguyen**, J. Némery, N. Gratiot, T. S. Dao, G. Laruelle, V. Thieu and J. Garnier, (2020). Assessing the self-purification capacity of a tropical estuary by a generic reactive-transport model. *In preparation*.
- T.-S. Dao, **A. T. Nguyen**, E. Strady, T. T.N. Nguyen, J. Aime, N. Gratiot, Julien Némery, (2020). Phytoplankton dynamics in a tropical river impacted by a megacity: Saigon River (Southern Vietnam). *In preparation*.
- **A. T. Nguyen**, J. Némery, N. Gratiot, T. S. Dao, G. Laruelle, V. Thieu and J. Garnier, (2020). Evaluating the response of water quality to pollutant loading reduction scenarios by a estuarine biogeochemical model (the Saigon River system, Vietnam). *Submitted to International Conference EauMega2020*.
- B.Camenen, N. Gratiot, J.-A. Cohard, F. Gard, **A. T. Nguyen**, V. Q. Tran, G. Dramais, T. van Emmerik ,E. Strady, J. Nemery, (2020). Monitoring discharge in a tidal river using water level observations: application on the Saigon River, Vietnam. *In revision: Science of The Total Environment*.
- Noncent, D., Strady, E., Némery, J., T.N. Nguyen, N., Denis, H., Mourier, B., **A. T. Nguyen**... Desmet, M. (2020). Sedimentological and geochemical data in bed sediments from a tropical river-estuary system impacted by a developing megacity, Ho Chi Minh City-Vietnam. *Data in brief*, 31, 105938.
- Nguyen, T. T., Nemery, J., Gratiot, N., Garnier, J., Strady, E., Nguyen, D. P., Tran, Q. V., **Nguyen, T. A.**, Cao, S. T., Huynh, T. P. (2020). Nutrient budgets in the Saigon–Dongnai River basin: Past to future inputs from the developing Ho Chi Minh megacity (Vietnam). *River Research and Applications*.
- Nguyen, T.T., Némery, J., Gratiot, N., Garnier, J., Strady, E., Tran, V.Q., **Nguyen, A.T.**, Nguyen, T.N., Golliet, C. and Aimé, J., (2019). Phosphorus adsorption/desorption processes in the tropical Saigon River estuary (Southern Vietnam) impacted by a megacity. *Estuarine, Coastal and Shelf Science*, p.106321.
- T.T.N. Nguyen, J. Némery, N. Gratiot, E. Strady, V.Q. Tran, **T.A. Nguyen**, Joanne Aimé (2019). Nutrient dynamics and eutrophication risk assessment in a tropical river: case study of Saigon – Dongnai river system (Southern Vietnam). *Science of the Total Environment*. 653, 370-383.
- **Nguyen T.A.** et al., (2018). Recommendation of optimal design and operation parameters for constructed wetland for sludge treatment based on the effect of hydraulic retention time, sludge loading rate and vegetation. *Journal of Science and Technology Development*, 20(K8), pp.42-49.
- **Nguyen T.A.** et al., (2018). Effect of oxygen states in horizontal subsurface flow constructed wetlands on the removal of organic matter, nutrients, some metals and octylphenol. *Journal of Science and Technology Development*, 20(K9), pp.45-52.
- Dinh, Q. T., **Nguyen, T.A.** et al., (2017). Trace-Level Determination of Oxolinic Acid and Flumequine in Soil, River Bed Sediment, and River Water Using Microwave-Assisted Extraction and High-Performance Liquid Chromatography with Fluorimetric Detection. *Soil and Sediment Contamination: An International Journal*, 26(3), 247-258.

- **Nguyen T.A.**, Dinh Q.T., Pham T.T.H., Nguyen P.D., Le NTK., Le T.B.T., Estoppey N., LF. de Alencastro (2016). Antibiotics and pesticides in water and sediments from intensive shrimp farms in Southern Vietnam. *Journal of Science and Technology*, 54 (4B), 146-153.

International conferences:

- **A. T. Nguyen**, J. Némery, N. Gratiot, T. S. Dao, G. Laruelle, V. Thieu and J. Garnier, (2020). Evaluating the response of water quality to pollutant loading reduction scenarios by a estuarine biogeochemical model (the Saigon River system, Vietnam). *International Conference on Water, Megacities and Global Change*, December 1-4, 2020, Paris (Web-Seminar), Vietnam. Oral
- **A. T. Nguyen**, J. Némery, N. Gratiot, T. S. Dao, G. Laruelle, V. Thieu and J. Garnier, (2020). Evaluating estuarine responses to modification of nutrient loads from megacity by a generic reactive-transport model . *International Symposium on Ecohydraulics*, December 23-24, 2019, Lyon (Web-Seminar), Vietnam. Oral
- **A. T. Nguyen**, J. Némery, N. Gratiot, T. S. Dao, G. Laruelle, V. Thieu and J. Garnier, (2019). Self-purification capacity of a tropical estuary using a generic reactive-transport estuarine model. *Green Technologies for Sustainable Water*, December 1-5, 2019, Ho Chi Minh City, Vietnam. Poster
- **A. T. Nguyen**, J. Némery, N. Gratiot, T. S. Dao, G. Laruelle, V. Thieu and J. Garnier, (2019). Modelling nutrient dynamics in a tropical estuary under human pressure: case study of the Saigon tidal River (Southern Vietnam) . *International Conference on Water Resources and Coastal Engineering*, April 25, 2019, Da Nang City, Vietnam. Oral
- T.T.N. Nguyen, J. Nemery, N. Gratiot, J. Garnier, V.Q. Tran, **A.T. Nguyen** (2018). Phosphorus adsorption-desorption in the salinity gradient: case study of Saigon River, Southern of Vietnam. *ASLO Summer Meeting*, June 10-15, 2018, Victoria, BC, Canada. Oral
- T.T.N. Nguyen, J. Nemery, N. Gratiot, E. Strady, J. Aime, S.T. Dao, **A.T. Nguyen**, V.Q. Tran (2018). Eutrophication risk assessment in the Saigon-Dongnai Rivers (southern Vietnam). *I.S Rivers*, June 04-08, 2018, Lyon, France. Oral
- J. Nemery, N. Gratiot, T.T.N. Nguyen, E.Strady, **A.T. Nguyen**, J. Aime (2017). Suspended sediments and particulate substances monitoring in rivers. *ISEAC 5 – ASIA*, May 17-19, 2017, Ho Chi Minh City, Vietnam. Oral
- T.T.N. Nguyen, J. Nemery, N. Gratiot, E.Strady, **A.T. Nguyen**, J. Aime, S.T. Cao, and T.P.T. Huynh (2017). Long term nutrient dynamics in Saigon-Dongnai Rivers impacted by the megacity of Ho Chi Minh City (Southern Vietnam). *ISEAC 5 – ASIA*, May 17-19, 2017, Ho Chi Minh City, Vietnam. Oral
- **A.T. Nguyen** et al., (2017). The optimal design and operating parameters for sludge treatment wetland based on the effect of hydraulic resting time, sludge loading rate and vegetation. *ISEAC 5 – ASIA*, May 17-19, 2017, Ho Chi Minh City, Vietnam. Poster
- E. Strady, **A.T. Nguyen**, J.Aime, T.Q Dinh, D. Nguyen, J.Nemery, N. Gratiot, TTN. Nguyen (2017). Spatial and seasonal patterns of trace metals in Saigon River impacted by the megacity of Ho Chi Minh City. *ICEPORM Conference*, March 6-10 2017, Quy Nhon, Vietnam. Oral

- **Nguyen T.A.** et al., (2016). Analysis of antibiotic and pesticide residues in shrimp farm waters using passive sampling. *SETAC Asia/Pacific Conference*, September 16-19 2016, Singapore. Oral

Skills

<i>Languages</i>	Vietnamese (native) English (proficiency) - TOEIC [780/990] French (basic level) - DELF A2
<i>Program- ming</i>	C, Matlab, R, Python, L ^A T _E X
<i>Software</i>	ArcGIS, QGIS, HEC-RAS, AutoCAD, Microsoft Office

Referees

1. **Julien Némery**
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2. **Nicolas Gratiot**
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