

## CURRICULUM VITAE

### I- PERSONAL INFORMATION

Name **TRAN THI NANG THU** Sex: Female  
Date of Birth: 1975  
Employer: Vietnam National University of Agriculture  
Position: Vice-Dean, Faculty of Fisheries  
Academic title: Lecturer-Researcher, Associated professor.  
Email: [trannangthu@vnua.edu.vn](mailto:trannangthu@vnua.edu.vn)

### II- EDUCATION

#### 1. PhD degree:

- Place of study: *University of Louvain (Belgium)* From: 2004 to 2008
- Major: *Agronomic Science and Biology (Branch: Biochemistry Nutrition Aquaculture)*
- Thesis title: *Nutritional value of sesame oil cake and lysine utilization efficiency in plant protein-based diets for rainbow trout*
- Year of PhD degree awarded: 2008

#### 2. Master degree:

- Place of study: *Ecole Nationale Supérieure des Industries Agricoles et Alimentaires (France)*
- From: 2000 to 2002
- Major: *Food Science and Technology*
- Year of Master degree awarded: 2002

#### 3. Bachelor degree :

- Place of study: *Hanoi University of Technology (Vietnam)* From: 1992 to 1997
- Major: *Food Science and Technology*

4. Foreign language background : English: *Good*  
French: *Good*

5. Informatics background: *Basic*

#### 6. Training courses attended

|    | Training courses                                                              | Professors from | Year                                            | Certificate |
|----|-------------------------------------------------------------------------------|-----------------|-------------------------------------------------|-------------|
| 1  | Microbiology: General and in food                                             | Belgium         | 2003                                            | Certificate |
| 2  | Nutrition and Aquaculture feed                                                | Belgium         | 2004                                            |             |
| 3  | Documentation research and information treatment                              | Belgium         | 2008                                            | Certificate |
| 4  | Information research and treatment                                            | Bi              | 2008                                            | Certificate |
| 5  | Aquaculture disease management and control                                    | China           | 2009                                            | Certificate |
| 6  | Experimental design and Biostatistic                                          | Belgium         | 2010                                            | Certificate |
| 7  | Aquaculture feed extrusion, nutrition and feed management                     | Many countries  | January 25-26, 2010                             | Certificate |
| 8  | Aquaculture Nutrition, Feed and Feeding                                       | Belgium         | Mars 1-5, 2010                                  | Certificate |
| 9  | Proposal writing for international research projects-South East Asia (Part 1) | DIES-Germany    | June, 14 <sup>th</sup> -18 <sup>th</sup> , 2010 | Certificate |
| 10 | Aquafeeds Extrusion Masterclass                                               | Australia       | 28 <sup>th</sup> – 30 <sup>th</sup> June, 2010  | Certificate |
| 11 | Second Executive Forum on Leadership                                          | Indonesia       | 19-24                                           | Certificate |

|    |                                                                               |                   |                                                  |             |
|----|-------------------------------------------------------------------------------|-------------------|--------------------------------------------------|-------------|
|    | Excellence in Academe Program for Southeast Asia                              |                   | July, 2010                                       |             |
| 12 | Proposal writing for international research projects-South East Asia (Part 2) | DIES-Germany      | 6 <sup>th</sup> -10 <sup>th</sup> December, 2010 | Certificate |
| 13 | Proposal writing for EU projects                                              | Belgium           | 4-15/4/2011                                      | Certificate |
| 14 | Animal Welfare education                                                      | Bangkok, Thai Lan | 25 <sup>th</sup> -26 <sup>th</sup> April, 2011   | Certificate |
| 15 | Database on aquaculture feed production for Asia Pacific countries            | USA               | 12/2014                                          | Certificate |
| 16 | Techniques and equipment in extruded aquaculture feed manufactory             | USA               | 3/2015                                           | Certificate |
| 17 | Asian Aquaculture Feed Formulation Database                                   | USA               | 10-11/9/2015                                     | Certificate |
| 18 | World economic integration in the field of fisheries quality management       | Viet Nam          | 15-19/3/2016                                     | Certificate |
| 19 | In pond race way Aquaculture (IPA)                                            | USA               | 2016                                             |             |
| 20 | ToT VietGAP in Aquaculture                                                    | Vietnam           | 2017                                             | Certificate |
| 21 | FAO TCP/RAS/3511<br>Piloting of aquaculture planning and management tools     | FAO               | 27-28/3/2017                                     | Certificate |
|    |                                                                               |                   |                                                  |             |

## 7. Teaching Experience

| Institution/organization                                                                                                                    | from..... to ..... | Position              |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|
| Vietnam National University of Agriculture                                                                                                  | 1997 to date       | Lecturer- Researcher* |
| * Lecturer of following courses :                                                                                                           |                    |                       |
| <ol style="list-style-type: none"> <li>1. Aquaculture nutrition and feed technology</li> <li>2. Fish preservation and processing</li> </ol> |                    |                       |

## 8. Research Experience (projects from 2009)

| Project/program                                                                                                                                                          | Level/Donor                               | Date      | Position           | Situation |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------|--------------------|-----------|
| 1. Utilization of sesame oil cake ( <i>Sesamum indicum</i> L.) to replace fish meal in diets for black carp ( <i>Mylopharyngodon piceus</i> ) reared in Northern Vietnam | Sida SAREC<br>Programe MEKARN<br>(Sweden) | 2009-2010 | <i>Participant</i> | Finish    |
| 2. Effect of earthworm and duckweed on fish growth performance in polyculture system                                                                                     | Sida SAREC<br>Programe MEKARN<br>(Sweden) | 2009-2010 | <i>Coordinator</i> | Finish    |

|                                                                                                                                                                                    |                                               |           |                    |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------|--------------------|--------|
| 3. Use of local plant protein sources in diets for rainbow trout reared in Vietnam                                                                                                 | MoET (Vietnam)                                | 2009-2010 | <i>Coordinator</i> | Finish |
| 4. Utilisation of local raw materials in feed production for fish in mountainous regions in Northern Vietnam.                                                                      | CUD (Belgium)                                 | 2009      | <i>Coordinator</i> | Finish |
| 5. Feasibility and sustainability of vermiculture on locally produced organic wastes to promote income of Vietnamese small-scale farms with aquacultural activities                | Seed Money Grant (USA)                        | 2010      | <i>Participant</i> | Finish |
| 6. Nutrition et Alimentation des poissons (Nutrition and fish feed)                                                                                                                | ELAN (CUD, Belgium)                           | 2010      | <i>Coordinator</i> | Finish |
| 7. Improving feed sustainability for common carp ( <i>Cyprinus carpio</i> ) aquaculture in Thai Nguyen province.                                                                   | CUI (Belgium)                                 | 2010-2012 | <i>Coordinator</i> |        |
| 8. Improving meat quality of common carpe by feeding high long chain polyunsaturated fatty acid feed                                                                               | CIUF, Belgium                                 | 2011      | <i>Coordinator</i> | Finish |
| 9. Development of practical feeds for black carp ( <i>Mylopharyngdon piceus</i> ) reared in Northern of Vietnam.                                                                   | International Foundation for Science (Sweden) | 2012-2013 | <i>Coordinator</i> | Finish |
| 10. Promoting appropriate technology for smallholders to increase food security among indigenous peoples in Cambodia and Lao PDR                                                   | EU                                            | 2012-2015 | <i>Participant</i> | Finish |
| 11. The effect of dietary lipid sources on nutritional quality and fish immune functions of common carp <i>Cyprinus carpio</i> , an important aquaculture species in North Vietnam | CIUF, Belgium                                 | 2014-2015 | <i>Coordinator</i> | Finish |
| 12. Determination of digestibility of corn meal for black carp ( <i>Mylopharyngodon piceus</i> )                                                                                   | Vietnam                                       | 2014-2015 | <i>Participant</i> | Finish |
| 13. Study on classification and assessment of growth performance of some pompano species ( <i>Trachinotus</i> ) in Vietnam                                                         | Vietnam                                       | 2014-2016 | <i>Participant</i> | Finish |
| 14. Utilization of extrude feed on pompano culture in Vietnam                                                                                                                      | NORAD, Norway                                 | 2014-2015 | <i>Coordinator</i> | Finish |
| 15. Feed management strategy in                                                                                                                                                    | Vietnam                                       | 2016-2018 | <i>Coordinator</i> |        |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------|--------------------|--------|
| pangasius culture to improve feed utilization and reduce pollution.                                                                                                             |                                                        |           |                    |        |
| 16. Study on the utilisation of disinfectants for shrimp farming industry in Northern Vietnam                                                                                   | CIUF, Belgium                                          | 2017      | <i>Coordinator</i> | Finish |
| 17. Utilisation of Emina probiotic in culture of Tilapia                                                                                                                        | Vietnam                                                | 2017      | <i>Participant</i> | Finish |
| 18. National technical regulation compound feed for aquaculture- Technical requirements to ensure food safety                                                                   | Ministry of Agriculture and Rural Development, Vietnam | 2016-2018 | <i>Coordinator</i> |        |
| 19. Improving the child institutions' resilience to food shocks, by upholding some local resources for the development of a sustainable innovative aquaculture in DPRK of Korea | EU                                                     | 2018-2020 | <i>Participant</i> |        |
| 20. Improvement of growth performances and physiological conditions of pompano <i>Trachinotus blochii</i> fed soybean meal by elimination of anti-nutritional factors.          | NAFOSTED                                               | 2018-2020 | <i>Participant</i> |        |

## 9. Publications

1. Noelie Bodin, Tran Thi Nang Thu, Detavernier Christel, Sarah de Saeger, Yvan Larondelle, Xavier Rollin, 2006. Comparison of the lysine utilization efficiency in different vegetal protein sources supplemented with L-Lysine.HCl in rainbow trout fry. *In: XIIth International Symposium on Nutrition & Feeding in Fish, May 28th – June 1st, 2006. Biarritz, France (Poster P051).*
2. Noelie Bodin, Tran Thi Nang Thu, Yvan Larondelle, Xavier Rollin. Dietary protein content affects Lysine requirement but not Lysine utilization efficiency in rainbow trout, 2006. *In: XIIth International Symposium on Nutrition & Feeding in Fish, May 28th – June 1st, 2006. Biarritz, France (Poster P119).*
3. Tran Thi Nang Thu, Charles Parkouda, Sarah de Saeger, Yvan Larondelle, Xavier Rollin, 2007. Dietary protein level affects voluntary feed intake but not lysine utilization efficiency at marginal lysine intakes in rainbow trout fry. Poster presentation at the *Asian-Pacific Aquaculture Conference, August 5-8 2007, Vietnam (Poster 355).*
4. Tran Thi Nang Thu, Sarah de Saeger, Yvan Larondelle, Xavier Rollin, 2007. Sesame oil cake (*Sesamum indicum*) as a potential plant protein source in diets for rainbow trout (*Oncorhynchus mykiss*). Abstract & poster presentation at the *Asian-Pacific Aquaculture Conference, August 5-8 2007, Vietnam.*
5. Tran Thi Nang Thu, Charles Parkouda, Sarah de Saeger, Yvan Larondelle, Xavier Rollin, 2007. Comparison of the lysine utilization efficiency in different plant protein sources supplemented with l-lysine·HCl in rainbow trout (*Oncorhynchus mykiss*) fry. *Aquaculture, Volume 272, Issues 1-4, Pages 477-488.*

6. Tran Thi Nang Thu, 2008. Nutritional value of sesame oil cake and lysine utilization efficiency in plant protein based- diets for rainbow trout. *PhD thesis, Université catholique de Louvain, Belgium.*
7. Tran Thi Nang Thu, Charles Parkouda, Sarah de Saeger, Yvan Larondelle, Xavier Rollin, 2009. Protein level does not affect lysine utilization efficiency at marginal lysine intake in growing rainbow trout (*Oncorhynchus mykiss*) fry. *Aquaculture* 288, Pages 312-320.
8. Noélie Bodin, Tran Thi Nang Thu, Eric Le Boulengé, Yvan Larondelle, Xavier Rollin. Growth response and nitrogen utilization of rainbow trout fry fed graded dietary levels of crystalline amino acids: effects of fish meal substitution level, ontogeny and adaptation. *In: XIVth International Symposium on Nutrition & Feeding in Fish, May 31th – June 4st, 2010, QingDao, China (Poster P106).*
9. Tran Thi Nang Thu, Julien Henrotte, Yvan Larondelle, Xavier Rollin. Substitution of fish meal by sesame oil cake in the diet of brown trout and rainbow trout fry: an interspecific comparison. *In: XIVth International Symposium on Nutrition & Feeding in Fish, May 31th – June 4st, 2010, QingDao, China (Poster P109).*
10. Tran Thi Nang Thu, Noélie Bodin, Sarah de Saeger, Yvan Larondelle, Xavier Rollin, 2011. Substitution of fish meal by sesame oil cake (*Sesamum indicum* L.) in the diet of rainbow trout (*Oncorhynchus mykiss* W.). *Aquaculture Nutrition, Volume 17, Issue 1, Pages 80-89.*
11. Müller, J.L., Pucher, J., Tran, T.N.T., Focken, U., Kreuzer, M., 2011. Kompostwürmer: Eine lokale Proteinquelle für fischhaltende Kleinbetriebe in vietnamesischen Berggebieten? (Compost worms: A local source of protein for small-scale farms with aquacultural activities in the mountainous areas of Vietnam?) *In: Kreuzer, M., Lanzini, T., Wanner, M., Bruckmaier, R., Guidon, D. (Eds.), Zukunftsträchtige Futtermittel und Zusatzstoffe, ETH-Schriftenreihe zur Tierernährung 34, ETH Zurich, Zurich, pp.88-90.*
12. Tran Thi Nang Thu, Julie Mellery, Eric Mignolet, Xavier Rollin, Yvan Larondelle. Influence of nutrition on the lipid quality of common carp (*Cyprinus carpio*): inventory and case studies in Vietnam. *The International Conference on Food science and technology-Mekong delta, Can Tho Novembre 2011*
13. Tran Dinh Luan, Nguyen Viet Vinh, Nguyen Thi Binh, Tran Thi Nang Thu (2011). Using local formulated feed for rainbow trout (*Oncorhynchus mykiss*) juveniles. *Journal of Science and Development (ISSN 1859-0004). Hanoi University of Agriculture, Vol 9, No 2 : 233-240.*
14. Tran Thi Nang Thu, Nguyen Viet Vinh, Nguyen Thi Binh, Tran Dinh Luan (2011). Testing local feeds for nursed rainbow trout (*Oncorhynchus mykiss*) juveniles in hapas. *Science and Technology Journal of Agriculture & Rural Development (ISSN 0866-7020), No 15 : 72-77.*
15. Tran Thi Nang Thu, Tran Anh Tuyet (2011). Effects of feed on nutritional and organoleptic quality of rainbow trout (*Oncorhynchus mykiss*). *Science and Technology Journal of Agriculture & Rural Development (ISSN 0866-7020). No 24: 71-75.*
16. Tran Dinh Luan, Nguyen Thi Hoa, Tran Thi Nang Thu (2011). Using local formulated feed for broodstock rainbow trout (*Oncorhynchus mykiss*) at Lao Cai. *Journal of Science and Development (ISSN 1859-0004). Hanoi University of Agriculture, Vol 9, No 6 : 966-971*
17. Duong Van Thanh, Tran Dinh Luan, Tran Thi Nang Thu (2012). Comparison of some agricultural by-product used to replace fish meal in common carp (*Cyprinus carpio*)

- feeds. Journal of Science and Development (ISSN 1859-0004). Hanoi University of Agriculture, Vol 10, No 1 : 148-157.
18. Noélie Bodin, Gilles Delfosse, Tran Thi Nang Thu, Eric Le Boulengé, Tarik Abboudi, Yvan Larondelle, Xavier Rollin (2012). Effects of fish size and diet adaptation on growth performances and nitrogen utilization of rainbow trout (*Oncorhynchus mykiss* W.) juveniles given diets based on free and/or protein-bound amino acids. *Aquaculture* 356-357, pages 105-115
  19. Tran Thi Nang Thu , Nguyen Thi Thuy (2012). Study on the utilisation of sesame by-product in diet for common carp (*Cyprinus carpio*). *Science and Technology Journal of Agriculture & Rural Development* (ISSN 0866-7020). No 23: 50-56.
  20. Tran Thi Nang Thu (2012). Determination of the digestibility of some plant ingredients for grass carp (*Ctenopharyngodon idella*). *Sci. & Devel.*, Vol. 10, No. 7: 986-992.
  21. Tran Thi Nang Thu, Nguyen Thi Hong Thu (2013). Determination of digestibility and incorporation level of rice bran in common carp (*Cyprinus carpio*) Diet. *J. Sci. & Devel.*, Vol. 11, No. 1: 46-52.
  22. Tran Thi Nang Thu (2013). Study the incorporation of gac oil cake in diets for rainbow trout (*Oncorhynchus mykiss*). *Journal of Agriculture & Rural Development*, No.2 : 82-86.
  23. Nguyen Thi Thom, Tran Thi Nang Thu (2013). Effect of pangasius oil and linseed oil on growth performance and omega-3 concentration of common carp (*Cyprinus carpio*). *Journal of Agriculture & Rural Development*, No.24 : 71-75.
  24. Tran Thi Nang Thu (2013). Study on the utilisation of wheat gluten and sesame by-product in diets for rainbow trout (*Oncorhynchus mykiss*) on growing stade. *Journal of Agronomy* 2/2013: 81-86.
  25. Kim Van Van, Tran Thi Nang Thu (2013). Effect of dietary protein levels on black carp (*Mylopharyngodon piceus*) growth performance in semi-intensive culture. *Journal of Science and Technology*, Thai Nguyen University, Vol. 101, No. 01: 81-84.
  26. Tran Thi Nang Thu, Tran Thi Tinh (2013). Formulated feed for rainbow trout (*Oncorhynchus mykiss*) at the beginning of growing phase. *Journal of Science and Development* (ISSN 1859-0004). Hanoi University of Agriculture, Vol 11, No 3 :
  27. Tran Quang Hung, Mintra Seel-audom, Tran Thi Nang Thu. Forthcoming 2015. Apparent digestibility of selected feedstuffs for black carp. *Chiang Mai University Journal of Natural Science*, 14(3), September – December, 2015.
  28. Nguyen Thi Dung, Vo Quy Hoan, Nguyen Van Dong, Hoang Thi Nhan, Bui Manh Hung, Tran Thi Nang Thu (2015). Effect of pangasius oil and soybean oil on omega 3 concentration of common carp (*Cyprinus carpio*). *Journal of Agriculture & Rural Development*.
  29. Tran Quang Hung, Tran Thi Nang Thu, Mintra Seel-audom, 2015. Effect of rice bran replacement by corn meal on growth, feed utilization of black carp (*Mylopharyngodon piceus*). In: *The 53rd Kasetsart University Annual Conference "Smart Agriculture: The Future of Thailand"*, Bangkok 3-6 Feb 2015.
  30. Nguyen Van Huong, Tran Huu Cuong, Tran Thi Nang Thu, Philippe Lebailly, (2015). Freshwater aquaculture system in Red River Delta of Vietnam: Evolution of key role in food system and rural development. *Proceedings of the International Conference on World Food Policy*, Thailand 17-18 December 2015.

31. Hong Thi Khanh Nguyen, Tran Thi Nang Thu, Philippe Lebailly, 2016. New challenges for the Vietnamese aquaculture sector. In conference book: The Economy of Vietnam In The Integration Period: Opportunities and Challenges, Hue 27-28 April 2016.
32. Tran Quang Hung, Tran Thi Nang Thu and Mintra Seel-audom (2016). Utilization of Maize Animal Feeds in Northern Upland Region of Vietnam. Article Journal of Agriculture, Volume 32 Issue 2, pages 283-298.
33. Tran The Muu, Le Van Toan, Dang Thi Diu, Pham Duc Phuong, Tran Thi Nang Thu (2016). The effects of different feed regimes on the growth and survival rates of short fin pompano *Trachinotus Blochii* and long fin pompano *Trachinotus ovatus* cultured in sea cages. Journal of Agriculture & Rural Development, No.14 : 41-48.
34. Trần Thị Năng Thu, Nguyễn Hữu Ninh, Trần Thế Mưu, Trần Thị Thập Hiếu, Nguyễn Tuấn Đạt (2016). Apparent digestibility of some commercial feeds for short fin pompano (*Trachinotus ovatus*). Journal of Science and Development (ISSN 1859-0004). Vietnam National University of Agriculture, Vol 14, No 8 : 1185-1189.
35. Tran Thi Nang Thu\*, Tran Thi Thap Hieu, Nguyen Tuan Dat, Tran Quang Hung (2016). Apparent Digestibility of Some Commercial Feeds for Snubnose Pompano, *Trachinotus blochii*. Kasatsart University Fisheries Research Bulletin 2016, Volume 40 (2): pages 11-16.
36. Van Huong, Nguyen; Huu Cuong, Tran; Thi Nang Thu, Tran; Lebailly, Philippe (2018). "Efficiency of Different Integrated Agriculture Aquaculture Systems in the Red River Delta of Vietnam." Sustainability 10, no. 2: 493. doi:10.3390/su10020493 (registering DOI)
37. Nguyễn Tử Cương, Trần Thị Năng Thu, Vi Thế Đàng, Trần Dũng Sỹ, Bùi Thị Quỳnh Chi, Nguyễn Tử Tuấn Anh, Nguyễn Ngọc Diệp, Đỗ Văn Quyết (2014). One hundred questions and answers on food safety in fisheries. Agriculture Publisher, 176 pages.