

## Curriculum Vitae

### Ngo Quoc Anh

Department of Mathematics,  
National University of Singapore  
2 Science Drive 2, Singapore 117543

*E-mail:* bookworm\_vn@yahoo.com, nqanh@vnu/nus.edu.vn/sg  
Phone: (O) +84 4 8581135; (H) +84 4 5541791; (C) +65 94474826

#### Personal details

*Name:* Ngo Quoc Anh

*Present position:* Teaching Assistant  
Department of Mathematics, College of Science,  
Vietnam National University at Hanoi

*Official Address:* 334 Nguyen Trai Road, Thanh Xuan Dist.,  
Hanoi, Vietnam

*Current Address:* Department of Mathematics,  
National University of Singapore  
2 Science Drive 2, Singapore 117543

*Date of Birth:* April 16<sup>th</sup>, 1983

*Place of Birth:* Daclac Prov., Vietnam

*Marital Status:* Single

*Citizenship:* Vietnamese

#### Research Interest

- Theory of inequalities.
- Numerical analysis, finite volume method, finite element method.
- Nonlinear functional analysis.
- Nonlinear analysis.
- Calculus of variations
- Nonlinear partial differential equations.
- Riemannian geometry and geometric analysis.

## Education

- 2008 - Ph.D student,  
Department of Mathematics,  
National University of Singapore  
**Supervisor:** Professor Xu Xingwang.
- 2005 - 2007 M.Sc student,  
Department of Mathematics,  
College of Science, Vietnam National University at Hanoi  
**Graduation:** M.S. Degree, December 2007.  
**Thesis:** *On the solvability of a class of nonlinear elliptic systems*  
(in Vietnamese only).  
**Advisor:** Professor Hoang Quoc Toan.
- 2001 - 2005 Undergraduate student,  
Department of Mathematics,  
College of Science, Vietnam National University at Hanoi  
**Graduation:** B.S. Degree, June 2005.  
**Thesis:** *On a Dirichlet problem to the semilinear elliptic system involving Laplacian operator on the bounded domain*  
(in Vietnamese only).  
**Advisor:** Professor Hoang Quoc Toan.

## Submitted papers

1. V.N. HUỠ, Q.A. NGÔ, *On an Iyengar-like type inequality involving  $n$  knots*, submitted to AMC [[290609](#)].
2. *On the uniqueness of eigenfunctions corresponding to the least eigenvalues of quasi-linear eigenvalue problems*, submitted to Journal d'Analyse Mathématique [[220609](#)].
3. V.N. HUỠ, Q.A. NGÔ, *An improvement of Ostrowski-Grüss-like type involving  $n$  knots*, submitted to AM [[160609](#)].
4. W.J. LIU, Q.A. NGÔ, *Some Iyengar-type inequalities on time scales for functions whose second derivatives are bounded*, submitted to AMC [[130609](#)].
5. W.J. LIU, Q.A. NGÔ, W.B. CHEN, *A new generalization of Ostrowski type inequality on time scales*, arXiv: 0804.4310, submitted to ASUOC [[220509](#)].
6. V.N. HUỠ, Q.A. NGÔ, *New bounds for the Ostrowski-like type inequalities*, submitted to BKMS [[130509](#)].
7. V.N. HUỠ, Q.A. NGÔ, *New inequalities of Simpson-like type involving  $n$  knots and the  $m$ -th derivative*, submitted to MCM [[090509](#)].
8. V.N. HUỠ, Q.A. NGÔ, *A New Way to Think About Ostrowski-like Type Inequalities*, submitted to CAMWA [[050509](#)].

9. *On a class of nonuniformly elliptic equations of  $p$ -Laplacian type with concave and convex nonlinearities*, submitted to DCDS-A [201108].
10. N.T. CHUNG, Q.A. NGÔ, *On a class of non-uniformly elliptic problems of  $p$ -Laplacian type for gradient systems*, submitted to MMA [210808].
11. *Existence results for quasilinear elliptic boundary value problems via topological methods*, submitted to IJNS, arXiv: 0805.0075 [240708].
12. *An improvement of the mountain pass lemma*, submitted to NA [160608].
13. V.N. HUY, Q.A. NGÔ, W.J. LIU, *Some  $n$ -dimensional versions of an integral inequality*, submitted to IJMEST.
14. W.J. LIU, Q.A. NGÔ, *Some  $n$ -dimensional double integral inequalities*, submitted to MC.
15. N.T. CHUNG, Q.A. NGÔ, *Multiple solutions for a class of anisotropic quasilinear equations in bounded domains*, submitted to AA.
16. Q.A. NGÔ, N.T. CHUNG, *Continuous spectrum for a class of eigenvalue problems in a bounded domains*, submitted to DIE.
17. N.T. CHUNG, Q.A. NGÔ, *Eigenvalue problems for nonuniformly elliptic equations in bounded domains*, submitted to AdM.

## Preprints

1. V.N. HUY, W.J. LIU, Q.A. NGÔ, *New proof on some sharp double integral inequalities of the Hermite-Hadamard type*, arXiv: 0805.0433.
2. S.S. DRAGOMIR, Q.A. NGÔ, *On an integral inequality*, *RGMIAR Research Report Collection*, **11**(1), Article 13, 2008.
3. *On the Inverse of an Integral Inequality*, *RGMIAR Research Report Collection*, **10**(4), Article 10, 2007.
4. W.J. LIU, Q.A. NGÔ, *An Ostrowski-Grüss type inequality on time scales*, *RGMIAR Research Report Collection*, **11**(2), Article 2, 2008.
5. Q.A. NGÔ, Q.T. SEN, *New generalizations of Ostrowskis inequality on time scales*, *RGMIAR Research Report Collection*, **11**(2), Article 5, 2008.

## Publications

### 2009

1. N.T. CHUNG, Q.A. NGÔ, [Multiple solutions for a class of quasilinear elliptic equations of  \$p\(x\)\$ -Laplacian type with nonlinear boundary conditions](#), to appear in *Proc. Roy. Soc. Edinburgh Sect. A*, 2009.

2. W.J. LIU, Q.A. NGÔ, W.B. CHEN, [On new Ostrowski type inequalities for double integrals on time scales](#), to appear in *Dynam. Systems Appl.*, 2009.
3. W.J. LIU, Q.A. NGÔ, W.B. CHEN, [An Ostrowski type inequality on time scales for double integrals](#), *Acta Appl. Math.* (2009), DOI: 10.1007/s10440-009-9456-y.
4. Q.A. NGÔ, F. QI, V.N. HUY, [Generalizations of an integral inequality](#), to appear in *Educația Matematică*, 2009.
5. W.J. LIU, Q.A. NGÔ, [An Ostrowski type inequality on time scales for functions whose second derivatives are bounded](#), to appear in *Inequality Theory and Applications* Vol. **6**, 2009.
6. W.J. LIU, Q.A. NGÔ, [An Ostrowski-Grüss type inequality on time scales](#), *Comput. Math. Appl.* **58** (2009), pp. 1207–1210.
7. N.T. CHUNG, Q.A. NGÔ, [A multiplicity result for a class of equations of  \$p\$ -Laplacian type with sign-changing nonlinearities](#), *Glasgow Math. J.* **51** (2009), pp. 513–524.
8. H.Q. TOAN, Q.A. NGÔ, [Existence of positive solution for system of quasilinear elliptic systems on a bounded domain](#), *World J. Model. Simul.* **5** (2009), pp. 211–215.
9. W.J. LIU, Q.A. NGÔ, V.N. HUY, [Several interesting integral inequalities](#), *J. Math. Inequal.* **3** (2009), pp. 201–212.
10. V.N. HUY, Q.A. NGÔ, [New Inequalities of Ostrowski-like type involving  \$n\$  knots and the  \$L^p\$ -norm of the  \$m\$ -th derivative](#), *Appl. Math. Lett.* **22** (2009), pp. 1345–1350.
11. Q.A. NGÔ, [Some mean value theorems for integrals on time scales](#), *Appl. Math. Comput.* **213** (2009), pp. 322–328.
12. Q.A. NGÔ, H.Q. TOAN, [Some remarks on a class of nonuniformly elliptic equations of  \$p\$ -Laplacian type](#), *Acta Appl. Math.* **106** (2009), pp. 229–239.
13. Q.A. NGÔ, [Existence results for a class of non-uniformly elliptic equations of  \$p\$ -Laplacian type](#), *Anal. Appl. (Singap.)* **7** (2009), pp. 185–197.
14. Q.A. NGÔ, W.J. LIU, [A sharp Grüss type inequality on time scales and application to the sharp Ostrowski-Grüss inequality](#), *Commun. Math. Anal.* **6** (2009), pp. 33–41.
15. H.Q. TOAN, Q.A. NGÔ, [Multiplicity of weak solutions for a class of nonuniformly elliptic equations of  \$p\$ -Laplacian type](#), *Nonlinear Anal.* **70** (2009), pp. 1536–1546.

## 2008

1. W.J. LIU, Q.A. NGÔ, W.B. CHEN, [A perturbed Ostrowski type inequality on time scales for  \$k\$  points for functions whose second derivatives are bounded](#), *J. Inequal. Appl.* **2008**, Art. ID 597241, 12 pp.

2. L. CARDOULIS, Q.A. NGÔ, H.Q. TOAN, [Existence of non-negative solutions for cooperative elliptic systems involving Schrödinger operators in the whole space](#), *Rostock. Math. Kolloq.* **63** (2008), pp. 63–77.
3. Q.A. NGÔ, H.Q. TOAN, [Existence of solutions for a resonant problem under Landesman-Lazer conditions](#), *Electron. J. Diff. Eqns.*, Vol. **2008**(2008), No. 98, pp. 1–10.
4. Q.A. NGÔ, F. QI, N.V. THU, [New generalizations of an integral inequality](#), *Real Anal. Exchange* **33** (2008), pp. 471–474.
5. W.J. LIU, Q.A. NGÔ, [A generalization of Ostrowski inequality on time scales for  \$k\$  points](#), *Appl. Math. Comput.* **203** (2008), pp. 754–760.

## 2007

1. Q.A. NGÔ, P.H. TUNG, [Notes on an open problem of F. Qi and Y. Chen and J. Kimball](#), *JIPAM. J. Inequal. Pure Appl. Math.* **8** (2007), Art. ID 41, 4 pp.

## 2006

1. Q.A. NGÔ, D.D. THANG, T.T. DAT, D.A. TUAN, [Notes on an integral inequality](#), *JIPAM. J. Inequal. Pure Appl. Math.* **7** (2006), Art. ID 120, 5 pp.

## 2005

1. Q.A. NGÔ, [An application of the Lyapunov-Schmidt method to semilinear elliptic problems](#), *Electron. J. Diff. Eqns.*, Vol. **2005**(2005), No. 129, pp. 1–11.

## Conferences and Seminars

- February 2007 *Workshop on Analysis, Differential Eqns., and Dynamical Sys.*, Vietnam National Uni. and Chungnam National Uni. (Kor.).
- December 2005 *Workshop on Integral-Differential Equations and Applications*, Ba Vi, Ha Tay, Vietnam.

## Teaching Experience

- 2005 - 2008 Associate instructor for Advanced Calculus and PDEs, Department of Mathematics, College of Science, Vietnam National University at Hanoi  
COURSES: *Calculus I- IV, Partial Differential Equations.*

## Awards and Fellowships

- 2009 University Outstanding Research Award 2008  
Vietnam National University at Hanoi.
- 2008 Research Scholarship,  
National University of Singapore.
- 2005 2<sup>nd</sup> Prize in Student Research Award,  
College of Science, Vietnam National University at Hanoi.
- 2003 4<sup>th</sup> Prize of Algebra at National Mathematical Students Olympiad  
OLP2003.
- 2002 1<sup>st</sup> Prize of Analysis at National Mathematical Students Olympiad  
OLP2002

### Professional Memberships

- 2005 - Present Vietnamese Mathematical Society.
- 2005 - Present Research Group of Mathematical Inequalities and Applications  
<http://rgmia.vu.edu.au>.

### Referees

JIPAM	Journal of Inequalities in Pure and Applied Mathematics
JAMC	Journal of Applied Mathematics and Computing
CAM	Journal of Computational and Applied Mathematics
JKSMEB	Journal of the Korea Society of Mathematical Education Series B
ICNAAM	International Conf. of Numerical Anal. and Applied Mathematics
IJM/BAMS	Indian Journal of Mathematics/Bulletion of the Allahabad Math. Soc.
ACAP	Acta Applicandae Mathematicae

### Computer Skills

- Very good knowledge of Turbo Pascal and Borland Delphi languages.
- Windows expertise in using Maple, Matlab, and Mathematica for teaching demonstration.

### Other Informations

- Language Skills: Vietnamese: native tongue,  
English: fluent.
- Teaching Experience: Teaching at College of Science, Vietnam National University at Hanoi from 2005.
- Personal Strength: Constructive, confident, self-motivated, hard working.