CURRICULUM VITAE

Personal data

First name	Quang Sang
Last name	PHAN
Sex	Male
Birthplace	Namdinh, Vietnam
Nationality	Vietnamese
Marital status	Single

Current position

Lecturer of mathematics at the Faculty of Information Technology of the Vietnam National University of Agriculture

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Language

English: intermediary
French: fluent
Vietnamese: mother tongue

Education

2012   Doctor in mathematics at the University of Rennes 1, France, First Class Honors.
Title of PhD thesis: "*Spectral monodromy of non selfadjoint operators*".
Graduation 28 June, 2012.
Jury: - San VU NGOC, Professor, University of Rennes 1/ Supervisor.
- Stéphane NONNENMACHER, Research Engineer, CEA Saclay/ Reporter.
- Hendrik BROER, Professor, University of Groningen, Holland/ Reporter.
- Francis NIER, Professor, University of Rennes 1/ Examiner.
- Gueorgui POPOV, Professor, University de Nantes/ Examiner.

2008   Master degree in Fundamental Mathematics, University Paris 6.
2007   Master's Degree in Fundamental and Applications Mathematics, University Paris 6, mention good.
2003   Bachelor degree (bac+4) in Mathematics, Hanoi National University of Education, Vietnam, mention good.
1999   High School Diploma, mathematical option, High School Le Hong Phong, Namdinh, mention very good.

Work experience

Since 2014 Lecturer of mathematics at the Vietnam National University of Agriculture.
2016   Researcher at the Vietnam Institute for Advanced Study in Mathematics
2013-2014 Postdoc at the Institute of Mathematics of the Jagiellonian University, Poland.
Qualified, section 26- Applied Mathematics to the post of Assistant Professor of the Ministry of Higher Education and Scientific Research, France.
2012-2013 Temporary Assistant Professor (full-time) at the Aix-Marseille University, France.
Qualified, section 25-Mathematic to the post of Assistant Professor of the Ministry of Higher Education and Scientific Research, France.
2011-2012 Temporary Assistant Professor (part-time) at the University of Rennes 1, France.
2008-2011 Instructor of mathematics at the University of Rennes 1, France.
2003-2006 Lecturer of mathematics at the Vietnam National University of Agriculture.

Research

Thematic: Spectral theory and the theory of pseudo-differential operators (non selfadjoint), asymptotic spectral, integrable system, KAM theory, monodromy, inverse problems.

2016	Researcher at the Vietnam Institute for Advanced Study in Mathematics (VIASM) for 4 months, "*Persistence of integrability in quasi-integrable systems and application to 2-D quantum model*".
Since 2014	Department of mathematics at the Vietnam National University of Agriculture, Hanoi, "*Monodromy of Classical and Quantum Models for a Bottle of champagne*".
2013-2014	Postdoc at the Institute of Mathematics of the Jagiellonian University of Krakow, Poland, "*Spectral monodromy in classical completely integrable or quasi-integrable cases*", with host Professor Zbigniew Blocki.
2012-2013	Team Quantum Dynamics and Spectral Theory at the Centre of Theoretical Physics, UMR 7332, Marseille, "*Carleman estimate for infinite cylindrical quantum domains and application to inverse problems*" and "*Hölder stable determination of a quantum scalar potential in unbounded cylindrical domains*", in collaboration with Eric Soccorsi and Yavar Kian.
2008-2012	PhD student at the Mathematics research institute of Rennes (IRMAR), UMR 6625, Rennes, "*Spectral monodromy of non selfadjoint operators*", under the direction of Prof. San VU NGOC.
2007-2008	Preparation of Master's Thesis, "*Entropy of holomorphic maps of $\mathbb{C}P^n$*", University Paris 6, under the direction of Prof. Charles FAVRE.
2006-2007	Study and Research work of Master's Degree, "*Cousin Problem*", University Paris 6, under the direction of Prof. Gennadi HENKIN.

Publications and Prepublications

- Q. S. Phan, *Combinatorial invariant of nearly integrable Hamiltonians*, submitted (2017), https://arxiv.org/abs/1703.06454
- Q. S. Phan, *Spectral monodromy of small non-selfadjoint quantum perturbations of completely integrable Hamiltonians*, submitted (2016), https://arxiv.org/abs/1701.01998
- Y. Kian, Q. S. Phan, E. Soccorsi, *Hölder stable determination of a quantum scalar potential in unbounded cylindrical domains*, J. Math. Ana. App, 426 (1), 2015, 194–210, http://www.sciencedirect.com/science/article/pii/S0022247X15000451
- Y. Kian, Q. S. Phan, E. Soccorsi, *Carleman estimate for infinite cylindrical quantum domains and application to inverse problems*, Inverse Problems, 30, 055016, http://iopscience.iop.org/0266-5611/30/5/055016/
- Q. S. Phan, *Spectral monodromy of non selfadjoint operators*, J. Math. Phys. 55, 013504 (2014), http://scitation.aip.org/content/aip/journal/jmp/55/1/10.1063/1.4855475
- Q. S. Phan, monograph, *Monodromie spectrale d'opérateurs non auto-adjoints*, Academic Press Francophones (2012), Sarrebruck, Germany, https://www.presses-academiques.com/catalog/details/store/fr/book/978-3-8381-7442-6/monodromie-spectrale-d-op%C3%A9rateurs-non-auto-adjoints

Preprints

- Q. S. Phan, *Monodromy of Classical and Quantum models for a Bottle of champagne* (2015).

Other works

- Q. S. Phan, E. Soccorsi, *Stability inequality for the scalar potential in an infinite quantum waveguide*, (2013), http://xxx.tau.ac.il/pdf/1305.1042v1.pdf
- Q. S. Phan, *Monodromie spectrale d'opérateurs non auto-adjoints*, Doctoral thesis at the University of Rennes 1, Rennes (2012), http://tel.archives-ouvertes.fr/tel-00730517/
- Q. S. Phan, *Entropy of holomorphic map of $\mathbb{C}P^n$* , Master's thesis at the University Paris 6, Paris (2008).

Oral communications

- **April 2017**, "*Spectral monodromy of small non-selfadjoint perturbations of nearly integrable Hamiltonians*", Vietnam-Korea workshop on selected topics in Mathematics, Duy Tan University, Da Nang. http://viasm.edu.vn/hdkh/vk2017 http://math.ac.vn/conference/Vietnam-Korea-Workshop/index.php?lang=vi
- **June 2016**, "*Hölder stable determination of a quantum scalar potential in unbounded cylindrical domains*", Mini-workshop on Partial Differential Equations: Analysis and Applications August, VIASM, Hanoi, Vietnam, 2016. http://viasm.edu.vn/en/hdkh/mini-workshop-on-analysis-and-applications-of-pdes
- **April 2016**, "*Carleman estimate for infinite cylindrical quantum domains and application to inverse problems*", 14th Scientific Optimization and Computation Conference, VIASM, Vietnam, 2016. http://hpsc.iwr.uni-heidelberg.de/OptiSciCom16/organizers.php
- **February 2015**, "*An overview of the spectral monodromy of non selfadjoint operators*", Faculty of Information Technology of the Vietnam National University of Agriculture, http://www.vnua.edu.vn/khoa/fita/wp-content/uploads/2015/03/An-overview-of-the-spectral-monodromy.pdf.
- **August 2014**, "*Spectral monodromy*", The Research Training Group 1838, Stuttgart University, Germany.
- **March 2014**, "*Classcial monodromy and Spectral monodromy*", the Institute of Mathematic of the Jagiellonian University, Krakow, Poland.
- **October 2013,** "*Lipschitz stability for scalar potentials in an infinite quantum waveguide*", International Programme "Geometry and Topology in Physical Models", the Institute of Mathematics of the Jagiellonian University, Krakow, Poland.
- **March, 2013**, "*Spectral monodromy and inverse problem*", Seminar of the Differential Geometry team, LMBA, Brest, France.

- **October, 2012**, "*Spectral monodromy of non selfadjoint operators*", Seminar of the Quantum Dynamics and Spectral Theory team, CPT, Marseille, France.
- **June, 2012**, "*Spectral monodromy of non selfadjoint operators*", Seminar of the PDE team, the Mathematics research institute of Rennes, France.
- **February, 2012**, "*Spectral monodromy of non selfadjoint operators*", 4th meeting of the GDR Quantum Dynamics, Toulouse, France,
  http://www.math.univ-toulouse.fr/~bouclet/GDR-2012/orateurs-resumes.html.
- **June, 2011**, "*Quantum monodromy for non selfadjoint operators*", Summer School Spectral analysis of non selfadjoint operators and application, IRMAR, Rennes, France,
  http://nonselfadjoint.univ-rennes1.fr/school/fr/node/3.

Participation in conferences

- **December 2015 (14-18)**, Conference ANR NOSEVOL 5, Semiclassical Analysis and Non-self-adjoint Operators, CIRM, Marseille.
- **June 2015,** Summer School "Non-Smooth Mechanics",Vietnam Institute for Advanced Study in Mathematics, Hanoi.
- **April 2015**, 13th Workshop on Optimization and Scientific Computing, Vietnam Institute for Advanced Study in Mathematics, Bavi, Hanoi.
- **September 2013:** Krakow-Vienna workshop on Pluripotential Theory and Several Complex, Institute of Mathematics of the Jagiellonian, Krakow, Poland.
- **July 2013 (15-19):** 2nd Conference on Finite Dimensional Integrable Systems - FDIS13, CIRM, Marseille.
- **July 2013 (08-12):** Special semester Conference "*Integrable Systems and Semiclassical Analysis*", Bernoulli Center-EPFL, Lausanne, Switzerland.
- **July 2013 (01-05):** Special semester Summer School "*Integrable Systems and Semiclassical Analysis*", Bernoulli Center-EPFL, Lausanne, Switzerland.
- **May 2013:** Conference on Applied Analysis for the Material Sciences, CIRM, Luminy.
- **September 2012:** First meeting of the ANR project NOSEVOL, Orsay.
- **December 2011:** International Conference "*Spectral Analysis of Non seftadjoint Operators*", CIRM, Marseille.
- **January 2011:** 5th meeting of the ANR NONAa, Orsay.
- **January 2011:** 3th meeting GDR quantum dynamics, Orléans.
- **June 2010:** 4th meeting of the ANR NONAa, Reims.
- **January 2010:** 2th meeting GDR quantum dynamics, Dijon.
- **December 2009:** Analysis Day Rennes-Nantes, Rennes.
- **December 2009:** 3th meeting of the ANR NONAa, Bordeaux.
- **June 2009**: Monodromy and geometric phases workshop, Lorentz center-Netherlands.
- **2008-2012:** Weekly seminar of the IRMAR, Rennes.

Academic scholarship and prizes

- **2008-2011**: Research allowance of the University of Rennes 1.
- **2006-2008:** Grant allocation of the Vietnamese government for funding my Masters in France.
- **2000 and 2003**: Award of Excellent student of the Hanoi National University of Education.
- **1999-2003**: Grant allocation of the Hanoi National University of Education and grant allocation of the University Francophone sector of Mathematics.
- **1996-1999**: Second prize in the General Mathematics Contest of district Namdinh, Vietnam.

Hobbies

- Informatics : Latex, Xfig, Maple, Power point, Word, Excel
                OS: Windows, Linux, Mac
- Leisure: Coofee, Football, Swimming, Travel ...

References

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