

Curriculum Vitae

Le Van Luyen

Current address:

Faculty of Mathematics and Computer Science Phone: 093 786 1536
University of Science, Office: F 210
Ho Chi Minh, Vietnam. Email: lv1luyen@hcmus.edu.vn

Research Interests

- Cryptography
- Computational Algebra

Education

- 09/2010-06/2014 Ph.D. in Mathematics,
National University of Ireland, Galway, Ireland.
Thesis: *Computational homology of n -types*
Supervisor: **Prof. Graham Ellis.**
- 09/2006-04/2009 Master in Algebra and Number Theory,
University of Science, Ho Chi Minh City, Vietnam.
Thesis: *The Cotorsion Dimension of Modules and Rings.*
Supervisor: **Dr. Nguyen Viet Dong.**
- 09/2001-09/2005 Bachelor of Science in Mathematics and Computer Science,
University of Science, Ho Chi Minh City, Vietnam.
Thesis: *Tor and Ext functors and homological dimension.*
Supervisor: **Dr. Nguyen Viet Dong.**

Publications

- [1] (with Graham Ellis) Computational homology of n -types, *Journal of Symbolic Computation*, Volume 47, Issue 11, November 2012, Pages 1309–1317.
- [2] (with Graham Ellis) Homotopy 2-types of low order, *Experimental Mathematics*, Volume 23, Issue 4, November 2014, Pages 383–389.

Talks

- Persistent homology of 2-types, Quang Ninh, Vietnam, December 19, 2014
- Computational homology of n -types, Viva defence, NUI Galway, Ireland, April 10, 2014.
- Persistent homology of crossed modules, Summer School on Computational Topology and Topological Data Analysis, Ljubljana, Slovenia, July 3, 2013.
- Computational homology of simplicial groups, NUI Galway, Ireland, January 26, 2012.
- Computational homology of crossed modules, Students Summer Meeting in Algebra, Ho Chi Minh City, Vietnam, July 24, 2011.

Awards

- 09/2010-09/2014 Ph.D. Fellowship, National University of Ireland, Galway, Ireland.
9/2001 - 9/2005 University Scholarship for excellent students.

Events

- Workshop: Experimental Methods in Computational Algebra, Hannover, Germany, March 24-26, 2014.
- Summer School on Computational Topology and Topological Data Analysis, Ljubljana, Slovenia, July 1-4, 2013
- Bologna ACAT Advanced School in Applied and Computational Algebraic Topology, Bologna, Italy, May 25-26, 2012.
- Groups in Galway 2012, National University of Ireland, Galway, Ireland, May 11-12, 2012.
- Students Summer Meeting in Algebra, University of Natural Sciences, Ho Chi Minh City, Vietnam, July 24, 2011.
- Groups in Galway 2011, National University of Ireland, Galway, Ireland, May 6-7, 2011.
- The 5th de Brun Workshop : Groups, Combinatorics, Computing, National University of Ireland, Galway, Ireland, April 4-16, 2011.
- The 4th de Brun Workshop: Group actions, National University of Ireland, Galway, Ireland, December 6-12, 2010.
- Mathematics Summer School, Quang Binh University, Vietnam, Summer 2006.
- Conference and Summer School in Algebraic Topology, Hanoi, Vietnam, August 9-20, 2004.

Teaching Experiences

- 2015 - now: Visiting lecturer, Troy University - STU Campus, Vietnam
Subjects: Discrete Mathematics (English)
- 2014 - now: Lecturer, University Of Science, Ho Chi Minh City, Vietnam.
Subjects: Abstract Algebra, Linear Algebra, Discrete Mathematics.
- 2011 - 2014: Teaching Assistant, National University of Ireland, Galway. Ireland.
Subjects: Complex Analysis, Linear Algebra, Engineering Calculus, Quantitive Techniques for Business (English)
- 2007 - 2010: Lecturer, University Of Science, Ho Chi Minh City, Vietnam.
Subjects: Abstract Algebra, Linear Algebra, Discrete Mathematics.
- 2005 - 2007: Teaching Assistant, University Of Science, Ho Chi Minh City, Vietnam.
Subjects: Abstract Algebra, Linear Algebra, Discrete Mathematics, Advanced Discrete Mathematics, Matlab.

Other Information

Computer Skills GAP, C++, Maple, Pascal, Matlab, Latex.
Languages Vietnamese (mother tongue), English.

References

- **Prof. Graham Ellis**, National University of Ireland, Galway, Ireland.
Email: graham.ellis@nuigalway.ie
- **Dr. Julio Rubio García**, Universidad de La Rioja, Spain
e-mail: julio.rubio@unirioja.es
- **Dr. Alexander D. Rahm**, National University of Ireland, Galway, Ireland.
Email: alexander.rahm@nuigalway.ie
- **Dr. Nguyen Viet Dong**, University Of Science, Ho Chi Minh City, Vietnam,
Email: nvdong@hcmus.edu.vn