

CURRICULUM VITAE

Ngo Viet Trung

Institute of Mathematics, Vietnam Academy of Science and Technology

Personal Information

Family name Ngo
Given name Viet Trung
Birth place Quang Nam, Vietnam
Nationality Vietnam
Affiliation Institute of Mathematics, Vietnam Academy of Science and Technology (VAST)

Degree

- M. Sc., Martin-Luther-University, Halle, Germany, 1974
- Ph. D., Martin-Luther-University, Halle, Germany, 1978
- Dr. habil., Martin-Luther-University, Halle, Germany, 1983

Academic Responsibilities

- Associate Professor, Institute of Mathematics, VAST, 1983-1990
- Professor, Institute of Mathematics, VAST, since 1991
- Editor-in-Chief, Acta Mathematica Vietnamica, 1991-2007
- Director, Institute of Mathematics, VAST, 2007-2013
- Member and Chair, Membership Committee in Mathematical Sciences, The World Academy of Sciences (TWAS), 2013-2018
- Member, Election Committee, The World Academy of Sciences (TWAS), 2016-2018
- Chair, Committee for Mathematical Sciences, National Foundation of Science and Technology Development, 2009-2015, 2018-date
- President, Vietnam Mathematical Society, since 2018

Distinctions and Honours

- First Prize, National Mathematical Olympiad, Vietnam, 1969
- Adam-Kuckhoff Medal for Scientific Research, Martin-Luther-University, Halle, Germany, 1974
- National Prize for Junior Scientists, Vietnam, 1982
- Fellow, Matsumae International Foundation, Japan, since 1982
- Fellow, Alexander von Humboldt Foundation, Germany, since 1989
- Associate Member, International Center for Theoretical Physics, Italy, since 1997
- Fellow, Third World Academy of Sciences (TWAS), since 2000
- National Prize in Natural Sciences, Vietnam, 2009
- Ho Chi Minh Prize, Viet Nam, 2017

Visiting Professorship

- University of Nagoya, Japan, 1982

- University of Halle, Germany, 1983
- University of Genoa, Italy, 1985, 1988, 1994
- Max-Planck-Institute of Mathematics, Bonn, Germany, 1987, 1993, 1997
- University of Essen, Germany, 1990, 1995, 2000, 2003, 2005, 2007
- University of Cologne, Germany, 1990
- Tokyo Metropolitan University, Japan, 1999
- Fourier Institute, University of Grenoble, France 2001
- Kansas University, Lawrence, USA, 2001
- Mathematical Sciences Research Institute, Berkeley, USA, 2002, 2012
- Henri Poincaré Institute, Paris, 2016

Citation Statistics

Google Scholar: 3699 citations; h-index 33 (of September 12, 2022)

MathSciNet: 1828 citations by 769 authors (of September 12, 2022)

Selected Publications

1. Multiplicity sequence and integral dependence,
Math. Ann. 378 (2020), 951–969 (with C. Polini, B. Ulrich, J. Validashti)
2. Depth functions of symbolic powers of homogeneous ideals,
Invent. Math. 218 (2019), 779–827 (with H.D. Nguyen)
3. Cohen-Macaulayness of large powers of Stanley-Reisner ideals,
Adv. Math. 229 (2012), 711–730 (with N. Terai)
4. Cohen-Macaulayness of monomial ideals and symbolic powers of Stanley-Reisner ideals,
Adv. Math. 226 (2011), 1285–1306 (with N.C. Minh).
5. Symbolic powers of monomial ideals and vertex power algebras,
Adv. Math. 210 (2007), 304–322 (with J. Herzog, T. Hibi)
6. On the core of ideals,
Compositio Math. 141 (2005), 1–18. (with C. Huneke)
7. Constructive characterization of the reduction numbers,
Compositio Math. 137 (2003), 99–113.
8. Positivity of mixed multiplicities,
Math. Ann. 319 (2001), 33–63.
9. Asymptotic behaviour of Castelnuovo-Mumford regularity,
Compositio Math. 80 (1999), 273–297 (with J. Herzog, D. Cutkosky).
10. Diagonal subalgebras and embeddings of blow-ups of projective spaces,
Amer. J. Math. 119 (1997), 859–901 (with A. Conca, J. Herzog, G. Valla)
11. Normal polytopes, triangulations and Koszul algebras,
J. Reine Angew. Math. 485 (1997), 123–160 (with W. Bruns, J. Gubeladze)
12. Bounds on degrees of projective schemes,
Math. Ann. 302 (1995), 417–432 (with B. Sturmfels, W. Vogel)
13. Reduction numbers, Briançon-Skoda theorem and the depth of Rees rings,
Compositio Math. 97 (1995), 403–434 (with J. Aberbach and C. Huneke)
14. Gröbner bases and multiplicity of determinantal and Pfaffian ideals,
Adv. Math. 96 (1992), 1–37 (with J. Herzog).

15. Degree bounds for the defining equations of arithmetically Cohen-Macaulay varieties, *Math. Ann.* 281 (1988), 479–491 (with G. Valla).