

CURRICULUM VITAE

Name: Pham Huu Tiep

Nationality: U. S.

Education:

- D.Sc. (Doctor of Physico-Mathematical Sciences), 1991, Department of Mathematics, Moscow State University, Moscow, Russia;
- Ph.D. (Candidate of Physico-Mathematical Sciences), 1989, Department of Mathematics, Moscow State University, Moscow, Russia;
- M.Sc., 1985, Department of Mathematics, Moscow State University, Moscow, Russia.

Employment:

- Since Sep. 2017: Joshua Barlaz Professor, Distinguished Professor of Mathematics, Department of Mathematics, Rutgers University, Piscataway, New Jersey;
- Sep. 2022–June 2023: Simons Fellow, Princeton University/MIT;
- Sep. 2020–July 2021: Member, Institute for Advanced Study, Princeton, New Jersey;
- March 2020: Simons Visiting Professor, University of Cambridge, Cambridge, UK;
- Jan.– May 2018: Chern Professor, Mathematical Sciences Research Institute (MSRI, Berkeley);
- April–May 2015: Simons Fellow, Department of Mathematics, University of Chicago, Chicago, Illinois;
- March–April 2015: Simons Visiting Professor, Imperial College, London, UK;
- Feb. 19–March 4, 2015: Visitor, Institute for Advanced Study (IAS, Princeton);
- Sep.–Dec. 2014: Simons Fellow, Department of Mathematics, Harvard University, Cambridge, Massachusetts;
- Aug. 2008 – Aug. 2017: Professor, Department of Mathematics, University of Arizona, Tucson, Arizona; Regents' Professor (since 2017);
- Jan. 2008–May 2008: Mathematical Sciences Research Institute (MSRI, Berkeley), Member;
- Aug. 2004–July 2008: Professor, Department of Mathematics, University of Florida, Gainesville, Florida;
- Aug. 2001–July 2004: Associate Professor, Department of Mathematics, University of Florida, Gainesville, Florida;
- Aug. 1998–July 2001: Assistant Professor, Department of Mathematics, University of Florida, Gainesville, Florida;
- Sept. 1996–July 1998: Zassenhaus Assistant Professor, Department of Mathematics, Ohio State University, Columbus, Ohio;

- Sept. 1995–June 1996: Visiting Associate Professor, Department of Mathematics, Israel Institute of Technology, Haifa, Israel;
- Sept. 1993–Aug. 1995: Alexander von Humboldt Fellow, Institute for Experimental Mathematics, University of Essen, Essen, Germany;
- 1990–1992: Research Fellow, Department of Mathematics, Moscow State University, Moscow, Russia.

Honors and Awards: • Invited Speaker, International Congress of Mathematicians, ICM 2018, Rio de Janeiro, Brazil, Aug. 1–9, 2018;

- NSF 5-year Research Grant, 2022–2027;
- 2021 Kalman Prize for Best Paper, New Zealand Mathematical Society;
- Plenary Address, 2019 CMS Summer Meeting, Regina, Canada, June 7–10, 2019;
- Simons Fellow in Mathematics, July 2022–June 2023;
- NSF 5-year Research Grant, 2017–2022;
- US-Israel BSF Research Grant (Co-PI), 2021–2025;
- NSF Conference Grant “Monodromy and Its Applications”, 2023–2024 (Co-PI);
- NSF Conference Grant “Algebra 2022 and Beyond, A Conference in honor of the Mathematical Contributions of Michael J. Larsen”, 2022–2023 (Co-PI);
- US-Israel BSF Research Grant (Co-PI), 2017–2021;
- NSF Conference Grant “Workshops at Newton Institute on “Groups, Representations and Applications: New Perspectives”, 2019–2022;
- Simons Fellowship, Isaac Newton Institute, Spring 2020;
- Simons Visiting Professorship, University of Cambridge, Feb.–March 2020;
- The Twenty First Andrzej Jankowski Memorial Lecture, Mathematical Institute of Gdansk University, Gdansk, Poland, May 10, 2019;
- Clay Senior Scholar, Clay Mathematics Institute, 2016;
- Fellow of the American Mathematical Society (2013, Inaugural Class);
- Plenary Address, Spring 2012 AMS Western Section Meeting, University of Hawaii, March 3–4, 2012;
- Some research results were the subject of a lecture at the Bourbaki Seminar (March 23, 2013);
- Simons Visiting Professorship, Imperial College, March–April 2015;
- Simons Fellow in Mathematics, July 2014–June 2015;
- NSF Conference Grant “Finite Simple Groups: Thirty Years of the Atlas and Beyond”, 2015–2017;
- NSA Conference Grant “Finite Simple Groups: Thirty Years of the Atlas and Beyond”, 2015–2016;
- NSF 5-year Research Grant, 2012–2018;
- NSF Research Grant, 2009–2013;
- NSF Conference Grant “Quadratic and Higher Degree Forms”, Gainesville, 2008–2010, (Co-PI);

- NSF Conference Grant “Group Representation and Combinatorics”, Gainesville, 2007–2008;
- NSF Research Grant, 2006–2010;
- NSA Research Grant, 2004–2006;
- NSA Conference Grant (Co-PI), March 2003;
- AMS Travel Grant for the ICM-2002, Beijing, August 2002;
- Teaching Award, College of Liberal Arts and Sciences, University of Florida, 2001–02;
- NSF Research Grant, 2000–2004;
- Research Award, College of Liberal Arts and Sciences, University of Florida, 1999;
- Alexander von Humboldt Research Fellowship, Germany, 1993–1995;
- 2nd prize, National Student Research Conference, Novosibirsk, Russia, 1985;
- 1st prize, Moscow Student Mathematical Olympiad, Moscow, Russia, 1981;
- 2nd prize, 21st International Mathematical Olympiad, London, UK, 1979.

Editorial Boards:

- *Annals of Mathematics*, Associate Editor (since 2019);
- *AMS Mathematical Reviews Editorial Committee* (since 2017);
- *Springer, Developments in Mathematics* (since 2018);
- *Algebra & Number Theory*;
- *J. Pure Appl. Algebra*;
- *Proceedings of the American Mathematical Society* – Editor (2011–2018), Coordinating Editor for Algebra, Number Theory, Combinatorics, and Logic (2014–2018);
- *Communications in Algebra* (2009–2018);
- *Acta Mathematica Vietnamica*;
- *Albanian Journal of Mathematics*.

Conference Organizing:

- Co-organizer, “Monodromy and Its Applications”, Princeton University, Dec. 7–9, 2023;
- Co-organizer, “Representation Theory and Applications”, Pacific Rim Mathematical Association Congress 2022, Vancouver, Dec. 4–9, 2022;
- Co-organizer, “Groups, Representations, and Applications: New Perspectives”, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, Jan. 6 – March 18, 2020, May 3 – July 29, 2022;
- Co-organizer, “Algebra 2022 and Beyond, A Conference in honor of the Mathematical Contributions of Michael J. Larsen”, Indiana University, Bloomington, IN, June 3 – 5, 2022;
- Program Committee Member and Session Co-organizer, The Vietnam-USA Joint Mathematical Meeting, QuyNhon, Vietnam, June 10–13, 2019;
- Lead organizer, “Group Representation Theory and Applications”, Semester program, MSRI, Jan. 16 – May 25, 2018;
- Co-organizer, “New Perspectives in Representation Theory of Finite Groups”, Banff International Research Station (BIRS), Banff, Canada, Oct. 15–20, 2017;

- Co-organizer, “An Introduction to Character Theory and the McKay Conjecture”, Summer graduate school, MSRI, July 11–22, 2016;
- Co-organizer, “Finite Simple Groups: Thirty Years of the Atlas and Beyond”, Princeton, NJ, Nov. 2–5, 2015;
- Co-organizer, “Global/Local Conjectures in Representation Theory of Finite Groups”, March 16–21, 2014, Banff International Research Station (BIRS), Banff, Canada;
- Co-organizer, Special Session on Groups, Representations, and Algebras, 2013 Joint Mathematics Meeting of the MAA and the AMS, San Diego, CA, Jan. 9–12, 2013;
- Co-organizer, Special Session on Representations of Groups and Algebras, Fall 2012 AMS Western Section Meeting, University of Arizona, Oct. 27–28, 2012;
- Co-organizer, Special Session on Linear and Permutation Representations, Spring 2012 AMS Western Section Meeting, University of Hawaii, March 3–4, 2012;
- Co-organizer, “Global/Local Conjectures in Representation Theory of Finite Groups”, March 13–18, 2011, Banff International Research Station (BIRS), Banff, Canada;
- Co-organizer, “Southwestern Group Theory Day” 2009 (Nov. 7, 2009); 2010 (Nov. 13, 2010); 2011 (Nov. 5, 2011); 2013 (Nov. 2, 2013); University of Arizona, Tucson, AZ;
- Co-organizer of the Student Workshop and Conference on “Quadratic Forms, Sums of Squares, Theta Functions and Integral Lattices”, March 7–15, 2009, and Conference on “Higher Degree Forms”, May 21–23, 2009, Gainesville, Florida;
- Coordinator, International Mathematical Olympiad IMO-2007, Hanoi, Vietnam (attended by high school students from 93 countries);
- Main organizer of the Conference “Group Representations and Combinatorics”, Sept. 10–14, 2007, Gainesville, Florida;
- Co-organizer of the International Conference “Finite Groups 2003”, March 6–12, 2003, Gainesville, Florida;
- Co-organizer of the Special Year in Algebra 2002–03, Department of Mathematics, University of Florida.

- Invited Conference Lectures:**
- (1) Invited Speaker, International Congress of Mathematicians 2018, Rio de Janeiro, Brazil, Aug. 1–9, 2018;
 - (2) Plenary Speaker, 2019 Canadian Mathematical Society Summer Meeting, Regina, Canada, June 7–10, 2019;
 - (3) Keynote Speaker, China US Group Theory Conference 2024, Gainesville, FL, Feb. 23–25, 2024;
 - (4) Plenary Speaker, Fairfield Algebra Regional Meeting, Fairfield, CT, Dec. 2, 2023;
 - (5) “Representations of Finite Groups”, Oberwolfach, Germany, April 16–21, 2023;

- (6) Principal Speaker, “Groups St. Andrews”, July 30–Aug. 7, 2022, Newcastle, UK;
- (7) “Simple groups, representations and applications”, July 25–29, 2022, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK;
- (8) Jan Saxl Memorial Day, July 22, 2022, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK;
- (9) “Counting conjectures and beyond”, May 9–13, 2022, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK;
- (10) The Amitsur Centennial Symposium, Nov. 1–4, 2021, Israel;
- (11) Workshop on Representation Theory and Geometry, IAS, Princeton, NJ, March 29 - April 3, 2021;
- (12) “Representations of Algebraic and Quantum Groups”, University of Virginia, Charlottesville, VA, March 12–13, 2020;
- (13) “Kronecker, Plethysm, and Sylow Branching Coefficients and their Applications to Complexity Theory”, Oberwolfach, Germany, Feb. 23–29, 2020;
- (14) “Groups and Geometries”, BIRS, Banff, Canada, Aug. 25–30, 2019;
- (15) Joint Vietnam–US Mathematics Meeting, Quynhon, Vietnam, June 10–13, 2019;
- (16) The Twenty First Andrzej Jankowski Memorial Lecture, Mathematical Institute of Gdansk University, Gdansk, Poland, May 10, 2019;
- (17) “Representations of Finite Groups”, Oberwolfach, Germany, March 24–30, 2019;
- (18) “Groups, Geometries, and Representations”, Oxford, UK, Sep. 3–7, 2018;
- (19) “Simple Groups: New Perspectives and Applications”, Bristol, UK, Aug. 29–31, 2018;
- (20) Number Theory and Arithmetic Geometry RTG Workshop, University of California, Berkeley, CA, April 30–May 4, 2018;
- (21) Sustech Summer Program in Algebra, July 16–29, 2017, Sustech, Shenzhen, China;
- (22) “Finite Simple Groups, their Fusion Systems and Representations”, Dec. 12–16, 2016, Centre Interfacultaire Bernoulli, EPFL, Lausanne, Switzerland;
- (23) “Permutation Groups”, Nov. 13–18, 2016, BIRS, Banff, Canada;
- (24) Summer school “Representation Theory of Finite and p -adic Groups”, Aug. 29 – Sep. 1, 2016, Vietnam Institute for Advanced Study in Mathematics (VIASM, Hanoi, Vietnam; 8 lectures);
- (25) Minicourse “Introduction to Group Representation Theory”, June 6–9, 2016, Vietnam Institute for Advanced Study in Mathematics (VIASM, Hanoi, Vietnam; 8 lectures);
- (26) “Branching Problems for Reductive Groups”, May 16–20, 2016, Institut Mittag-Leffler, Djursholm, Sweden;
- (27) “Simple Groups, Representations, and Related Topics”, July 13–15, 2015, University of Cambridge, UK;

- (28) “Representations of Finite Groups”, April 5–11, 2015, Oberwolfach, Germany;
- (29) A. M. S. Meeting, March 14–15, 2015, Michigan State University, East Lansing, MI;
- (30) “Representations of Finite Groups and Algebraic Groups”, Feb. 9–13, 2015, École de Physique des Houches, France;
- (31) Mathematics of John Thompson, Conference on Finite Groups and Related Topics, Sept. 8–11, 2013, University of Cambridge, Cambridge, UK;
- (32) Plenary Address, The 8th Congress of Vietnamese Mathematicians, Aug. 10–14, 2013, Nhatrang, Vietnam;
- (33) Annual Meeting of the Deutsche Forschungsgemeinschaft (DFG) Priority Programme on Representation Theory SPP 1388, March 25–28, 2013, Bad Boll, Germany (two main lectures);
- (34) “Groups and Geometries”, Sept. 2–7, 2012, BIRS, Banff, Canada;
- (35) Midrasha Mathematicae “Words and Growth”, June 10–15, 2012, Institute for Advanced Studies, Jerusalem, Israel;
- (36) “Representations of Finite Groups”, March 25–31, 2012, Oberwolfach, Germany;
- (37) Plenary Address, Spring 2012 AMS Western Section Meeting, University of Hawaii, March 3–4, 2012;
- (38) “Linear Groups and Group Representations: Classification Problems”, Milan, Italy, July 4–6, 2011;
- (39) A. M. S. Meeting, Nov. 5–7, 2010, University of Notre Dame, South Bend, IN;
- (40) Annual 2010 AMS Meeting, Jan. 15–16, 2010, San Francisco, CA;
- (41) “Permutation Groups”, BIRS, Banff, Canada, July 19–24, 2009;
- (42) Conference on Character Theory of Finite Groups, Valencia, Spain, June 3–5, 2009;
- (43) “Group Theory, Geometry and Representation Theory: Abel Prize 2008”, Newton Institute for Mathematical Sciences, Cambridge, UK, May 27–29, 2009;
- (44) “Topics in Algebra”, Milan, Italy, May 13–15, 2009;
- (45) Research Programme “Algebraic Lie Theory”, Newton Institute for Mathematical Sciences, Cambridge, UK, May 2009;
- (46) “Representations of Finite Groups”, March 22–28, 2009, Oberwolfach, Germany;
- (47) “Permutation Groups”, Aug. 5–10, 2007, Oberwolfach, Germany;
- (48) “Representations of Finite Groups”, March 26–April 1, 2006, Oberwolfach, Germany;
- (49) Special Semester on Group Representation Theory, May–June 2005, Bernoulli Center, EPFL Lausanne, Switzerland;
- (50) Second COE Workshop on Sphere Packings, May 30–June 3, 2005, Kyushu University, Fukuoka, Japan;
- (51) Annual 2005 AMS Meeting, Jan. 5–8, 2005, Atlanta, GA;

- (52) “Gitter und Anwendungen”, Jan. 2–7, 2005, Oberwolfach, Germany;
- (53) A. M. S. Meeting, March 26–27, 2004, Ohio University, Athens, OH;
- (54) “Darstellungen endlicher Gruppen”, March 24–28, 2003, Oberwolfach, Germany;
- (55) A. M. S. Meeting, Oct. 12–13, 2002, University of Wisconsin, Madison, WI;
- (56) “Arithmetique et Combinatoire”, CIRM, Sept. 23–27, 2002, Luminy, Marseille, France;
- (57) “Groups and Geometries”, Sept. 2–6, 2002, Oberwolfach, Germany;
- (58) A. M. S. Meeting, Nov. 10–11, 2001, University of California at Irvine, CA;
- (59) Symposium “Groups, Geometries, and Combinatorics”, London Mathematical Society, July 2001, Durham, UK;
- (60) Annual 2001 AMS Meeting, Jan. 10–13, 2001, New Orleans, LA;
- (61) “Réseaux et Formes Quadratiques”, CIRM, Sept. 25–29, 2000, Luminy, Marseille, France;
- (62) Workshop “Group Theory and Representations”, July 3–7, 2000, The Pacific Institute for the Mathematical Sciences, Edmonton, Canada;
- (63) “Applications of Simple Groups/Computational Group Theory”, May 8–12, 2000, Milan, Italy;
- (64) “Representations of Finite Groups”, June 21–26, 1999, Oberwolfach, Germany;
- (65) A. M. S. Meeting, March 12–13, 1999, University of Florida, Florida;
- (66) “Integral Quadratic Forms and Lattices”, June 15–19, 1998, Seoul National University, Seoul, Korea;
- (67) The XXIVth OSU-Denison Mathematics Conference, May 22–24, 1998, Denison University, Granville, Ohio;
- (68) Symposium on Modular Representation Theory of Finite Groups, May 9–15, 1998, University of Virginia, Virginia;
- (69) “Quadratic Forms and Orthogonal Groups”, May 2–4, 1998, University of Notre Dame, Indiana;
- (70) A. M. S. Annual Meeting, Jan. 1998, Baltimore, Maryland;
- (71) NATO Advanced Institute on Modular Representation Theory and Subgroup Structure of Algebraic Groups and Related Finite Groups, June 15–July 5, 1997, Isaac Newton Institute, University of Cambridge, UK;
- (72) A. M. S. Meeting, May 2–4, 1997, Wayne State University, Michigan;
- (73) “Linear Groups”, Sept. 3–9, 1995, Levico, Italy;
- (74) “Ganzzahlige quadratische Formen und Gitter”, Aug. 20–26, 1995, Oberwolfach, Germany;
- (75) “Gruppen und Geometrien”, Aug. 21–26, 1994, Oberwolfach, Germany;
- (76) 1994 Canadian Mathematical Society Annual Seminar “Representations of Groups, Finite, Lie, Quantum”, June 14–25, 1994, Banff, Canada;
- (77) “Darstellungstheorie endlicher Gruppen”, Sept. 29–Oct. 2, 1992, Oberwolfach, Germany;
- (78) International Algebraic Conference, Aug. 1991, Barnaul, Russia;

- (79) “Algebraische Gruppen”, Apr. 7–13, 1991, Oberwolfach, Germany;
 (80) “Endlichdimensionale Lie-Algebren”, Febr. 10–16, 1991, Oberwolfach, Germany.

Invited Lectures and Colloquia: • U. S. A.: IAS, Harvard University, Princeton University, Yale University, MIT, California Institute of Technology, University of Chicago, Brown University, Cornell University, University of Michigan, University of Florida, University of Arizona, University of Southern California (two colloquia), Northeastern University, Northwestern University, University of Wisconsin (three colloquia), University of Oregon (three colloquia), University of California - San Diego, University of California - Santa Cruz, University of Iowa, Tufts University, Wayne State University, Ohio University, Kent State University, Bowling Green State University, Wesleyan University.

- Canada: University of Toronto.
- Germany: MPI at Bonn, University of Heidelberg, RWTH Aachen, Humboldt University of Berlin, TH Darmstadt, University of Freiburg, University of Mainz, University of Münster, University of Essen, University of Erlangen;
- Israel: Hebrew University of Jerusalem, Weizman Institute at Rehovot, University of Negev;
- Italy: University of Milan, University of Naples;
- The Netherlands: TU Eindhoven;
- Poland: Twenty First Andrzej Jankowski Memorial Lecture;
- Switzerland: École Polytechnique Fédérale de Lausanne (EPFL) (*Bernoulli Lecture*, 2016), Swiss Federal Institute of Technology (ETHZ) Zürich, University of Geneva;
- United Kingdom: University of Cambridge, Imperial College (*London Algebra Colloquium*, 2009), City University London (*London Algebra Colloquium*, 2015), Oxford University, University of Birmingham, University of Bristol, University of East Anglia, University of Kent;
- Vietnam: Hanoi Institute of Mathematics, National University of Vietnam, Vietnam Institute for Advanced Study in Mathematics (VIASM).

Ph.D. Students: • Hung Ngoc Nguyen, Ph.D. (graduated Summer 2008, now a Full Professor at the University of Akron); Amanda Schaeffer Fry, Ph.D. (graduated Spring 2013, now a Full Professor at the Metropolitan State University of Denver, just moved to University of Denver); Stephen Trefethen (graduated Spring 2016, now a Lecturer at the College of William & Mary); Hyereem Lee (graduated Spring 2017, now working in industry); Daniel Rossi (graduated Spring 2018, now working in industry).

- Tae Young Lee (current).

Postdoctoral Advisees: F. Lübeck (currently at RWTH-Aachen, Germany), Nham V. Ngo (now a tenure-track Assistant Professor at University of North Georgia), Jay Taylor (now Neumann Fellow at UMIST, Manchester, UK), Eilidh McKemmie (current).

- Professional Service:**
- NSF Panelist (2006, 2007, 2009, 2012, 2014, 2015, 2017, 2018, 2022);
 - ICM-2018, IMU Panel “Machine-Assisted Proofs”, Rio de Janeiro, Aug. 1–9, 2018;
 - AMS Representative to the AMS-Vietnamese Mathematical Society Program Committee (July 1, 2017–June 30, 2019).
 - Chairman of the 2015 Scientific Review Council of Vietnam Institute for Advanced Study in Mathematics (VIASM, Hanoi, Vietnam);
 - University Senator, University of Florida, 2006–2008;
 - Member of the American Mathematical Society;
 - Referee for the NSF and the National Security Agency (U. S. A.), the Simons Foundation (U. S. A.), the U.S. Civilian Research and Development Foundation, Natural Sciences and Engineering Research Council of Canada, the Alexander von Humboldt Foundation (Germany), the Swiss National Science Foundation, the Israel Science Foundation, the Engineering and Physical Sciences Research Council (U. K.), and the Banff International Research Station (Canada).
 - Referee for many mathematical journals, including *Annals of Math.*, *Invent. Math.*, *J. Amer. Math. Soc.*, *Adv. Math.*, *Duke Math. J.*, *Trans. Amer. Math. Soc.*, *J. Reine Angew. Math.*, *Math. Annalen*, *Proc. London Math. Soc.*, *Math. Z.*, *J. Algebra*, *J. Group Theory*, *J. Number Theory*.
 - Recommendation letters for colleagues being considered for promotion to full professor/associate professor at various universities.
- Research Field:**
- Group Theory;
 - Representation Theory.