

CURRICULUM VITAE

VICTOR V. PAMBUCCIAN

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—EMPLOYMENT

— Professor of Mathematics, ASU West, Fall 2007 -
— Associate Professor of Mathematics, ASU West, Fall 1999 - Spring 2007
— Assistant Professor of Mathematics, ASU West, Spring 1994 - Spring 1999
— Teaching Assistant at the University of Michigan (9/89-5/93),
and Lecturer in Mathematics (9/93-12/93)
— French and Mathematics teacher at the “National Sports
Academy in Lake Placid”, Lake Placid, NY (9/88-6/89)

—EDUCATION

—University of Michigan (9/89 - 8/93)
Ph. D. in Mathematics (August 1993)
Major Area: Logic, Foundations of Geometry
Dissertation Title: The Axiomatics of Euclidean Geometry
Thesis Adviser: Prof. Andreas Blass
— University of Bucharest, Faculty of Mathematics (1978-1982)
Master of Sciences in Mathematics, June 1982
M.S. Thesis Title: The problem of the axiomatic
foundation of Euclidean geometry (120pp.)
Thesis Adviser: Prof. Kostake Teleman
— “Deutsches Lyzeum”, Bucharest, Rumania (1970-1978)
Baccalaureat (“Abitur”) diploma, September 1978

—ACADEMIC AWARDS and SCHOLARSHIPS

— 1st; 2nd prizes of the “Gazeta Matematica”
(Bucharest, 1975; 1976)
— 3rd; 1st; 2nd; 1st; 2nd prizes at the “Bundeswettbewerb
Mathematik” (West German Mathematical Competition)
(Bonn, 1976; 1977; 1977; 1978; 1978)
— Two prizes at the “Prindle, Weber & Schmidt Undergraduate
Math. Competition” II and III (Boston, MA, 1978; 1979)
— Alice Glover Webber Scholarship, U. of Michigan (1989-1991)
— Rackham Dissertation Grant, U. of Michigan (1/93 - 5/93)
— Fulbright Research Fellowship (University of Białystok, Poland, 9/03-1/04)
— Mercator Visiting Professorship, TU Dortmund, Germany (4/08-8/08)
— Foreign member of the Armenian Academy of Sciences (2011–)
— Distinguished Reviewer, Zentralblatt MATH (2011)
— Fiscal Year 2017 NEA Literature Translation Fellowship
— Fulbright Research and Teaching Fellowship (Yerevan State University, Armenia, 9/18-5/19)

— Commandino Medal (2021), University of Urbino

—PUBLICATIONS

— Refereed Journal articles:

- [2025d] V. Pambuccian, Brouwer vindicated by neuroscience.
Mathematical Intelligencer **47**, no. 1, 2–5.
- [2025c] V. Pambuccian, H. Struve, R. Struve, A comprehensive analysis of the axiomatic frameworks in which Fagnano’s theorem holds.
Journal of Geometry **116** (2025), no. 1, Paper No. 6, 28pp.
- [2025b] V. Pambuccian, Addenda to “The parallel postulate”.
Annali dell’Università di Ferrara. Sezione VII. Scienze Matematiche **71** (2025), no. 2, Paper No. 26, 3 pp.
- [2025a] V. Pambuccian, The parallel postulate.
Annali dell’Università di Ferrara. Sezione VII. Scienze Matematiche **71** (2025), no. 1, Paper No. 17, 26 pp.
- [2024b] V. Pambuccian, The simplicity degree of Tarski’s Euclidean geometry of ruler and dividers is 5. *Results in Mathematics* **79** (2024), No. 4, Paper No. 167, 26 p.
- [2024a] V. Pambuccian, Why did Euclid not need the Pasch axiom?
Journal of Geometry **115** (2024), No. 1, Paper No. 13, 25 p.
- [2022c] V. Pambuccian, Two statements characterizing the Euclidean metric of a metric plane. *Elemente der Mathematik* **77** (2022), No. 4, 171–179.
- [2022b] V. Pambuccian; C. Schacht, The case for the irreducibility of geometry to algebra. *Philosophia Mathematica* (3) **30** (2022), No. 1, 1–31.
- [2022a] V. Pambuccian, On a splitting of the parallel postulate.
Journal of Geometry **113** (2022), No. 1, Paper No. 12, 13 p.
- [2021b] V. Pambuccian; C. Schacht, The ubiquitous axiom.
Results in Mathematics **76** (2021), no. 3, Article No. 114, 39 pages.
- [2021a] V. Pambuccian; R. Struve, Axiom systems implying infinity in the foundations of geometry, *Beiträge zur Algebra und Geometrie* **62** (2021), 109–120.
- [2020] Y. Movsisyan; V. Pambuccian, The Geometry of Point Reflections and Quasigroups.
Results in Mathematics **75** (2020), no. 4, Article No. 132.
- [2019e] V. Pambuccian, Existence of special rainbow triangles in weak geometries.
Georgian Mathematical Journal **26** (2019), no. 4, 489–498.
- [2019d] V. Pambuccian, C. Schacht, Lippmann’s axiom and Lebesgue’s axiom are equivalent to the Lotschnittaxiom. *Beiträge zur Algebra und Geometrie* **60** (2019), no. 4, 733–748.
- [2019c] V. Pambuccian, The elementary Archimedean axiom in absolute geometry.
Journal of Geometry **110** (2019), no. 3, Paper No. 52, 9pp.
- [2019b] D. Harutyunyan, A. Nazaryan, V. Pambuccian, The Hajja-Martini inequality in a weak absolute geometry. *Journal of Geometry* **110** (2019), no. 2, Art. 24, 16 pp.
- [2019a] V. Pambuccian, Prolegomena to any theory of proof simplicity.
Philosophical Transactions of the Royal Society A, **377** (2019), no. 2140, 20180035, 15 pp.
- [2018c] V. Pambuccian, A problem in Pythagorean arithmetic.
Notre Dame Journal of Formal Logic **59** (2018), 197–204.
- [2018b] V. Pambuccian, C. Schacht, Euler’s inequality in absolute geometry.
Journal of Geometry **109** (2018), Art 8, 1–11.
- [2018a] V. Pambuccian, Negation-Free and Contradiction-Free Proof of the SteinerLehmus Theorem. *Notre Dame Journal of Formal Logic* **59** (2018), 75–90.
- [2017b] V. Pambuccian, Absolute geometry proofs of two geometric inequalities of Chisini.
Journal of Geometry **108** (2017), 265–270.
- [2017a] V. Pambuccian, Another equivalent of the *Lotschnittaxiom*.
Beiträge zur Algebra und Geometrie **58** (2017), 167–170.
- [2016d] J. Alama, V. Pambuccian, From absolute to affine geometry in terms of point-reflections, midpoints, and collinearity, *Note di Matematica* **36** (2016), 11–24.
- [2016c] F. Kalhoff, V. Pambuccian, An axiomatic look at the Erdős-Trost problem.

- Journal of Geometry* **107** (2016), no. 2, 379–385.
- [2016b] V. Pambuccian, The arithmetic of the even and the odd. *Review of Symbolic Logic* **9** (2016), 359–369 (addenda et corrigenda in **9** (2016) (638–640 (with S. Menn)).
- [2016a] V. Pambuccian, H. Struve, R. Struve, The Steiner-Lehmus theorem and “triangles with congruent medians are isosceles” hold in weak geometries. *Beiträge zur Algebra und Geometrie* **57** (2016), 483–497.
- [2015a] A. Hulpke, V. Pambuccian, Aristotle’s problem. *Beiträge zur Algebra und Geometrie* **56** (2015), 473–477.
- [2015b] V. Pambuccian, Schatunowsky’s theorem, Bonse’s inequality, and Chebyshev’s theorem in weak fragments of Peano arithmetic, *Mathematical Logic Quarterly* **61** (2015), 230–235.
- [2014b] V. Pambuccian, The Green-Tao theorem on primes in arithmetical progressions in the positive cone of $\mathbb{Z}[X]$, *Elemente der Mathematik* **69** (2014), 30–32.
- [2014a] V. Pambuccian, An axiomatic look at a windmill, *Indagationes Mathematicae (N.S.)* **25** (2014), 113–121.
- [2013a] V. Pambuccian, On the simplicity of ordered geometry. *Journal of Geometry* **104** (2013), 153–163.
- [2012b] V. Pambuccian, The non-planarity of K_5 and $K_{3,3}$ as axioms for plane ordered geometry. *Journal of Geometry* **103** (2012), 313–318.
- [2012a] Ioana Hociotă, Victor Pambuccian, Acute triangulation of a triangle in a general setting revisited, *Journal of Geometry* **102** (2012), 81–84.
- [2011e] F. Kalhoff, V. Pambuccian, Positive existential definitions of parallelism in terms of betweenness in Archimedean ordered affine geometry, *Rocky Mountain Journal of Mathematics*, **41** (2011), 1501–1521.
- [2011d] V. Pambuccian, T. Zamfirescu, Paolo Pizzetti: the forgotten originator of triangle comparison geometry. *Historia Mathematica* **38** (2011), 415–422.
- [2011c] V. Pambuccian, Another splitting of the Pasch axiom. *Results in Mathematics* **59** (2011), 219–227.
- [2011b] V. Pambuccian, The simplest axiom system for plane hyperbolic geometry revisited. *Studia Logica* **97** (2011), 347–349.
- [2011a] V. Pambuccian, The axiomatics of ordered geometry. *Expositiones Mathematicae* **29** (2011), 24–66.
- [2010d]. V. Pambuccian, Mappings preserving the area equality of hyperbolic triangles are motions, *Archiv der Mathematik* **95** (2010), 293–300.
- [2010c]. V. Pambuccian, Acute triangulation of a triangle in a general setting *Canadian Mathematical Bulletin* **53** (2010), 534–541.
- [2010b]. V. Pambuccian, Forms of the Pasch axiom in ordered geometry, *Mathematical Logic Quarterly* **56** (2010), 29–34.
- [2010a]. V. Pambuccian, Weakly ordered plane geometry, *Annali dell’Universita di Ferrara Sez. VII Sci. Mat.* **56** (2010), 91–96.
- [2009d]. V. Pambuccian, On the equivalence of Lagrange’s axiom to Bachmann’s *Lotschnittaxiom*, *Journal of Geometry* **95** (2009), 165–171.
- [2009c]. V. Pambuccian, Universal-existential axiom systems for geometries expressed with Pieri’s isosceles triangle as single primitive notion, *Rendiconti del Seminario Matematico di Torino* **67** (2009), 327–339.
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- [2009a] V. Pambuccian, R. Struve, On M. T. Calapso’s characterization of the metric of an absolute plane, *Journal of Geometry* **92** (2009), 105–116.
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- Mathematical Analysis and Applications* **346**(2008) 531–532.
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- [2007a]. V. Pambuccian, Point-reflections in metric plane, *Beiträge zur Algebra und Geometrie* **48** (2007), 59–67, Zbl 1124.51009.
- [2006c]. V. Pambuccian, Positive definitions of segment congruence in terms of segment inequality, *Aequationes Mathematicae* **72** (2006), 243–253.
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- [2006a]. V. Pambuccian, Remarks, du côté de chez Tarski, on symmetric ternary relations, *Journal of Geometry* **84** (2006), 94–99.
- [2005f]. V. Pambuccian, K. Prażmowski, K. Sakowicz, Defining co-punctuality in terms of line-orthogonality in plane hyperbolic geometry, *Acta Mathematica Hungarica* **109** (2005), 289–293.
- [2005e]. V. Pambuccian, Groups and plane geometry, *Studia Logica* **81** (2005), 387–398.
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- [2005c]. V. Pambuccian, Elementary axiomatizations of projective space and of its associated Grassmann space, *Note di Matematica* **24** (2004/2005), 129–141.
- [2005b]. V. Pambuccian, The complexity of plane hyperbolic incidence geometry is $\forall\exists\forall\exists$, *Mathematical Logic Quarterly* **51** (2005), 277–281.
- [2005a]. V. Pambuccian, Euclidean geometry problems rephrased in terms of midpoints and point-reflections, *Elemente der Mathematik* **60** (2005), 19–24.
- [2004h]. V. Pambuccian, An axiom system for Lingenberg’s metric-Euclidean planes, *Journal of Geometry* **81** (2004), 139–143.
- [2004g]. V. Pambuccian, An axiomatics of hyperbolic projective-metric planes in terms of lines and orthogonality, *Bulletin of the Polish Academy: Mathematics* **52** (2004), 297–302.
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- [2003d]. V. Pambuccian, On the Planarity of the Equilateral, Isogonal Pentagon. *Mathematica Pannonica* **14** (2003), 101–112.
- [2003c]. V. Pambuccian, Sphere tangency as single primitive notion for hyperbolic and Euclidean geometry, *Forum Mathematicum* **15** (2003), 943 – 947.
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- Aequationes Mathematicae* **66** (2003), 90–99.
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- [2001e]. V. Pambuccian, A definitional view of Vogt’s variant of the Ulam-Mazur theorem, *Algebra, Geometry and Their Applications* **1** (2001), 5–10.
- [2001d]. V. Pambuccian, A methodologically pure proof of a convex geometry problem, *Beiträge zur Algebra und Geometrie* **42** (2001), 401–406.
- [2001c]. V. Pambuccian, Constructive axiomatization of plane hyperbolic geometry, *Mathematical Logic Quarterly* **47** (2001), 475–488,
- [2001b]. V. Pambuccian, Fragments of Euclidean and hyperbolic geometry, *Scientiae Mathematicae Japonicae* **53** (2001), 361–400.
- [2001a]. V. Pambuccian, Constructive axiom systems for plane absolute geometry, Euclidean and hyperbolic geometry, *Mathematical Logic Quarterly* **47** (2001), 127–134,
- [2000f]. V. Pambuccian, Two notes on the axiomatics of structures with parallelism *Note di Matematica* **20** (2000), 91–102.
- [2000e]. V. Pambuccian, Binary relations as single primitive notions for hyperbolic three-space and the inversive plane, *Indagationes Mathematicae* **11** (2000), 587 – 592.
- [2000d]. V. Pambuccian, A logical look at characterizations of mappings under mild hypotheses, *Indagationes Mathematicae* **11** (2000), 453–462.
- [2000c]. V. Pambuccian, A logical reading of the nonexistence of proper homomorphisms between affine spaces, *Geometriae Dedicata* **81** (2000), 215–218.
- [2000b]. V. Pambuccian: Affine Super-Pythagorean Geometry, *Beiträge zur Algebra und Geometrie* **41** (2000) 199–202.
- [2000a]. V. Pambuccian, Another constructive axiomatization of Euclidean planes, *Mathematical Logic Quarterly* **46** (2000), 45–48, MR.
- [1999]. V. Pambuccian, On the Euclidean geometry of the double-edged ruler *Note di Matematica* **19** (1999), 65–70.
- [1998c]. V. Pambuccian, Zur Existenz gleichseitiger Dreiecke in H -Ebenen, *Journal of Geometry* **63** (1998), 147–153.
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- [1996b]. A. Blass, V. Pambuccian, On a problem of H. N. Gupta, *Geometriae Dedicata* **61** (1996), 329–331.
- [1996a]. V. Pambuccian, Über das Reichhaltigkeitsaxiom für partielle affine Räume, *Journal of Geometry* **55** (1996), 139–140.
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- [1994d]. V. Pambuccian, Zum Stufenaufbau des Parallelenaxioms, *Journal of Geometry* **51** (1994), 79–88.
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- Bulletin of the Polish Academy: Mathematics* 42 (1994), 77–84.
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- [1994a]. V. Pambuccian, Ternary operations as primitive notions for constructive plane geometry IV, *Mathematical Logic Quarterly* 40 (1994), 76–86.
- [1993]. V. Pambuccian, Ternary operations as primitive notions for constructive plane geometry III, *Mathematical Logic Quarterly* 39 (1993), 393–402.
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- [1987a]. V. Pambuccian, An axiom system for plane Euclidean geometry, *Bulletin of the Polish Academy of Sciences: Mathematics* 35 (1987), 333–335.
- [1985b]. R. Schnabel, V. Pambuccian, Die metrisch-euklidische Geometrie als Ausgangspunkt fuer die geordnet-euklidische Geometrie, *Expositiones Mathematicae* 3 (1985), 285–288.
- [1985a]. V. Pambuccian, Congruence axioms for absolute geometry, *Mathematical Chronicle* 14 (1985), 47–48.
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- [1984a]. V. Pambuccian, A simple proof of a metrization theorem, *Mathematical Chronicle* 13 (1984), 71–72.

— **Non-refereed Journal articles:**

- V. Pambuccian, Translations from Rumanian into English of the poems:
 - Max Blecher, *Pastoral* in *Words Without Borders*, April 2008
 - Tristan Tzara, *Friend Midear, Voice, Old Song, Come with Me to the Countryside, Inscription on a Tomb* in *Words Without Borders*, September 2005–December 2007
 - Paul Celan, *Poem for Marianne’s shadow and Last Night* in *Words Without Borders*, March and October 2005,
 - Eugène Ionesco, *I* in *Words Without Borders*, March 2006,
 - Barbu Fundoianu, *Hertza*, in *International Poetry Review* **36** (2010), no. 1, 30–35.
 - Translations of Gellu Naum, Nichita Stănescu, Ion Caraion, Nora Iuga, George Almosnino, Cezar Ivănescu, Mariana Marin in *International Poetry Review* **37** (2011), Fall.
 - Translations of two poems by Nora Iuga in *International Poetry Review* **44** (2021)
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 - Tristan Tzara, *Sunday*, *International Poetry Review* **38** (2012), Fall;
 - Disgust, Journey, Cousin, boarding school girl*. *International Poetry Review*. IPR (2014).
 - Constantin Abăluță, *On rain’s street*, *Two Lines* 19 (2012) “Passageways”, 36–39.

- Constantin Abăluță, Three poems, *The Antonym* (2022).
- Constantin Abăluță, *The small rain*, Two Lines Online 19 (2012) “Passageways”.
- George Almosnino *The foreign woman*. Two Lines. Two Lines Press (2015)
- Constantin Abăluță *Other Trifles*. International Poetry Review. IPR (2014).
- Vintilă Ivănceanu, *Four poems*, Pleiades, Winter 2016.
- Magda Isanos, Two poems, *The Antonym* (2025).
- V. Pambuccian, Translation from German into English of the poems:
 - Richard Wagner, *Lockjaw* in *Words Without Borders*, March 2010.
 - Oskar Pastior, *always* in *International Poetry Review* **36** (2010), no. 1, 60–61.
 - Elisabeth Axmann, *prague, 1968* in *International Poetry Review* **36** (2010), no. 1, 54–59.
 - Translations of Elisabeth Axmann, Anemone Latzina, Rolf Bossert, Richard Wagner in *International Poetry Review* **37** (2011), Fall.
- V. Pambuccian and Raffi Kantian, Translation of the poem *Balance sheet* by Wahan Tekejan from Armenian to German, *ADK Armenisch-Deutsche Korrespondenz* 114 (2001), Nr. 4. p. 48.
- V. Pambuccian and Hermine Navasardjan, Translations of the poems *Milchstrasse* and *Geheimnis* from Armenian to German, *Oda. Ort der Augen* 3 (2010), 52–53.
- Translation from Armenian to German of Hermine Navasardyan’s *Schwarm, Sie sehen und sehen doch nicht, hören und hören doch nicht, Zeitgenössische armenische Lyrik*, Apollon, Yerevan, 2012.
- Translations from Armenian to German of Warudschan and Sewak.
- Translations from English to German of three poems by Susan Barba in *Orte* (2018).
- Translations from English to German of Susan Barba’s “Andranik” in *Armenisch-Deutsche Korrespondenz* (2019).
- V. Pambuccian, Translation from French into English of the poems:
 - Vahé Godel, *Indentity Check*, in *Two Lines* 18 (2011), 170–175
 - Vahé Godel, *Keep the Void Open*, in *Two Lines Online* 18 (2011).
 - Vahé Godel, *Dear friend this morning*, in *International Poetry Review* **38** (2012), 32–33
 - Vahé Godel, *most ominous*, in *Vestiges* **5** (2020), 48
 - Vahé Godel, *I write you*, in *Vestiges* **5** (2020), 46–47
 - Vahé Godel, *An island*, in *Vestiges* **5** (2020), 49
 - Vahé Godel, *The more we move ahead*, in *Vestiges* **5** (2020), 50–51
 - Vahé Godel, *Of a clandestine pen*. *The Antonym* (2022)
- V. Pambuccian, Berge Turabian, a contemporary troubadour, *The Armenian Reporter International*, May 6 (2000), p. 8.

— Poems

- (in English: 2017–2024) in *Communion*, *Adelaide Literary Magazine*, *Panoplyzine*,
- *Lucky Jefferson*, *O:JA&L*, *Poetica Review*, *Apricity Magazine*, *Detour Ahead*, *The Elevation Review*,
- *The Dillydoun Review*, *Red Ogre Review*, *Pure Slush*, *Havik: The Las Positas*
- *Journal of Arts and Literature*, *Vermillion*, *Sparks of Calliope*, *Clockhouse*, *Ignatian Literary Magazine*, *Interpret*.
- (in German: 2012, 2018) in *Asphaltspuren*, *Orte*.

— Book chapters

- V. Pambuccian, H and R Struve, Metric geometries in an axiomatic perspective, in Ji, Papadopoulos, Yamada (eds), *From Riemann to differential geometry and relativity*, pp 413–455, Springer, 2017.
- V. Pambuccian, C. Schacht, The axiomatic destiny of the theorems of Pappus and Desargues. S. G. Dani, A. Papadopoulos (eds). *Geometry in History*, Springer, Cham (2019), 355–399.
- V. Pambuccian, A theorem on equiareal triangles with a fixed base.
- V. Alberge, A. Papadopoulos (eds), Eighteen essays in non-Euclidean geometry, 427–437, IRMA Lect. Math. Theor. Phys., 29, Eur. Math. Soc., Zürich, 2019

- V. Pambuccian, Varieties of infiniteness in the existence of infinitely many primes. F. Ferreira (ed.) et al., *Axiomatic thinking II*. Springer, Cham, 2022, 157–164 .
- V. Pambuccian, The single intuition of a move of time.
- A. Papadopoulos (ed) Essays in geometry — dedicated to Norbert A’Campo, 871–881, IRMA Lect. Math. Theor. Phys., 34, EMS Press, Berlin, 2023.
- V. Pambuccian, Brouwer’s Intuitionism. Mathematics in the Being Mode of Existence Bharath Sriraman (ed), Handbook of the History and Philosophy of Mathematical Practice 645–699, Springer, Cham, 2024.
- V. Pambuccian, The case for absolute geometry. Essays on topology. Louis Funar, Athanase Papadopoulos (eds), Springer, Cham, 2025

— Edited and translated book

- V. Pambuccian (editor and Translator), Something is still present and isn’t, of what’s gone An anthology of Rumanian avant-garde and avant-garde inspired poetry. Arcane editrice, Roma, 2018 (300 pages).

— Book reviews

1. Wanda Szmielew, From affine to Euclidean geometry, D. Reidel, 1983, in *The American Mathematical Monthly* 93 (1986), 74–75.
- 2 . W. G. Boskoff, Hyperbolic geometry and Barbilian spaces, Hadronic Press, Palm Harbor, Fl. 1996, in: *The Mathematical Intelligencer* 21 (1999), 77–79.
3. Robin Hartshorne, Geometry. Euclid and beyond, *The American Mathematical Monthly* 110 (2003), 66–70.
4. David Hilbert’s lectures on the foundations of geometry, 1891–1902. Michael Hallett and Ulrich Majer, eds. Berlin: Springer-Verlag, 2004, in: *Philosophia Mathematica* (III) 21, 255–277.
5. Paul Valéry: Cahiers/Notebooks, Volume 4 Peter Lang, Frankfurt am Main, 2010. in: *The Mathematical Intelligencer* 37 (2015), no. 4, 89–90.
6. Reviewed more than 1700 articles and books for *Zentralblatt MATH* and for *Mathematical Reviews*

— Published proceedings

- [1994p]. V. Pambuccian, From recreational to foundational mathematics, in: *The Lighter Side of Mathematics, Proceedings of the Eugene Strens Memorial Conference on recreational mathematics and its history* (eds. R. K. Guy and R. E. Woodrow), MAA, Washington, 1994, pp. 302–304, MR 95m:00005.
2. [2006p] V. Pambuccian, Axiomatizations of hyperbolic and absolute geometries, A. Prekopa and E. Molnar (eds.), pp. 119–153 in *Non-Euclidean geometries: Janos Bolyai Memorial Volume*, Springer Verlag, New York, 2006.

— Conference presentations and talks

1. Axiomatizations of hyperbolic and absolute geometries The Bolyai Conference, Budapest, July 2002.
2. A logical reading of characterizations of mappings by mild hypotheses, 8th International Conference on Geometry, March 7–14, 1999, Nahsholim, Israel (abstract in *Journal of Geometry* 65 (1999), 21.)
3. Constructive axiomatizations of planes with a Euclidean metric, 7th International Conference on Geometry, April 2–9, 1995, Nahsholim, Israel (abstract in *Journal of Geometry* 53 (1995), 19–20.)
4. Simplicity in geometry and arithmetic, The Sacks Symposium, Boston, 1993.
5. What is the natural Euclidean metric, ASL meeting, Notre Dame, 1993 (abstract in *Journal of Symbolic Logic* 59 (1994), 711–712.)
6. Talks delivered (in German and Armenian) in Erlangen (1996, 2001, 2005),

- Potsdam (1996, 2001), Yerevan (1999, 2001), Vienna (2001), Hannover (2001), Münster (2004).
7. Fulbright Talks: Białystok, Warszawa, Torun, Olsztyn, Krakow, Siedlce (all 2003)
 8. Talk “Groups and plane geometry” in Milano (2005)
at the *Groups and Topological Groups* annual meeting.
 9. **Invited talk.** Theorems of Alexandrov-Zeeman type as definability statements and the axiomatics of hyperbolic geometry. *Logic in Hungary, 2005*, August 2005, Budapest.
 10. Elementary Versions of the Sylvester-Gallai Theorem, *10th International Conference on Discrete Mathematics: Convexity and Discrete Geometry*, Univ Dortmund, July 2007
 11. **Invited talk.** Elementary geometry and algebra: Similarities and differences. *Ideals of Proof: Geometrical Thinking*, December 2008, Nancy, France.
 12. **Invited talk.** Universal axiomatizations of plane geometries in languages without relation symbols, *Symposium on Constructive Geometric Reasoning*, Stanford University, 23.10.2009
 13. Forms of the Pasch axiom in ordered geometry, *11th International Conference on Discrete Mathematics: Convexity and Discrete Geometry*, TU Dortmund, July 2009.
 14. **Invited talk.** A geometer’s apology, University of Hamburg, on the occasion of Walter Benz’s 80th anniversary, May 2011.
 15. Forms of the Pasch axiom, Berlin, May 2011.
 16. **Invited talk** The birth of algebra and its consequences on the relations between geometry and logic. Geometry and Logic. The Shape of Mathematical Proof from Antiquity to the Early Modern Age, Pisa, June 2013.
 17. **Invited talk** Forms of indirect proof in elementary geometries. PhilMath Intersem 2013, Paris, June 2013.
 18. Point-reflections in various metric planes.
Talk at the Università Cattolica del Sacro Cuore, Brescia, June 2013.
 19. Zur Axiomatik der angeordneten Geometrie
Oberseminar über Algebra und Geometrie - TU Dortmund, July 2013.
 20. **Invited talk.** Aspects of proof in weak axiom systems for arithmetic and geometry. AMS-EMS-SPM International Meeting June 10-13, Porto.
 20. **Invited talk.** Minimal axiom systems for number theoretical and geometric results, Logic and Theory Group, Berne, April 2015.
 21. **Invited talk.** Provability in axiom systems for weak arithmetic and geometry without actual proofs. Representation and Axiomatization: Power and Limits, Paris, March 2015.
 22. **Invited talk.** Dependence of Axioms for Weak Geometries Proved Syntactically. Automatic Deduction in Geometry - 2016, Strasbourg, June 2016.
 23. **Invited talk.** Und wozu Axiomatik der Geometrie in dürftiger Zeit?
Oberseminars über Algebra und Geometrie, TU Dortmund, June 2016.
 24. **Invited talk.** Why should one follow the axiomatic method in geometry? An apology. PhilMath Intersem 7, Paris, June 2016.
 25. Hilbert’s 24th problem, New University of Lisbon, May 2018.
 26. **Invited talk.** Can geometry be reduced to algebra?, Emil Artin International Conference, Yerevan, May 28, 2018.
 27. **Invited talks.** Series of 10 talks, *Lectiones Commandinianae*. University of Urbino, Italy, 2022.
 28. **Invited talk.** The impact of the discovery of non-Archimedean fields on fundamental aspects of the Parallel Postulate. Dec. 6, 2024, Paris.
 29. **Invited talk.** Why Euclid did not need the Pasch axiom. Dec. 9, 2024, Paris.

— GRANTS (INTERNAL)

FGIA (\$3,500 for 1995)
 ASU West SRCA grant (\$2,000 for 1996)
 ASU West SRCA grant (\$2,700 for 1997)
 FGIA (\$5,600 for 1997)
 ASU West SRCA grant (\$2,000 for 1998)
 ASU West TRIS Grant (\$4,000 for 1998)
 ASU West TRIS Grant (\$6,500 for 1999)
 ASU West SRCA grant (\$3,120 for 2003)
 ASU West campus SRCA grant (\$5,000 for 2013)

— GRANTS (EXTERNAL)

DAAD (German Academic Exchange Service, Bonn, Germany)

Two Study Visit Grants (3 months support:

(1) Summer 1996 in Erlangen;

(2) Summer 2001 in Würzburg)

(3) Summer 2006 in Dortmund

NEA Translation Fellowship (\$12,500 for 2017)

— EDITORIAL REVIEW BOARDS

— Member of the Editorial Board of the

Journal of Applied Logic (Elsevier, Amsterdam) (February 2004—)

— Member of the Editorial Board of the

Logic Journal of IGPL (Oxford) (2010—)

— Member of the Editorial Board of

Beiträge zur Algebra und Geometrie (Springer) (2019—)

— Member of the Editorial Board of

Journal of Geometry (Springer) (2023—)

— REFEREED for

— Aequationes Mathematicae

— American Mathematical Monthly

— Annales des sciences mathématiques du Québec

— Annals of Mathematics and Artificial Intelligence

— Annals of Pure and Applied Logic

— Archiv der Mathematik

— Axioms

— Beiträge zur Algebra und Geometrie

— Bulletin des sciences mathématiques

— Bulletin of the American Mathematical Society

— Bulletin of Symbolic Logic

— Canadian Journal of Philosophy

— Demonstratio Mathematica

— Discrete Mathematics

— Erkenntnis

— European Journal for Philosophy of Science

— Foundations of Physics

— Fundamenta Informaticae

— Glasnik Matematicki

— Historia Mathematica

— Indagationes Mathematicae

— International Journal of Theoretical Physics

— Journal of Geometry

— Journal of Logic and Computation

— Journal of Philosophical Logic

— Kragujevac Journal of Mathematics

— Linear Algebra and Its Applications

— Logique et Analyse

— Mathematica Pannonica

— Mathematica Slovaca

— Mathematics Magazine

— Notre Dame Journal of Formal Logic

— Proceedings of the American Mathematical Society

— Resultate der Mathematik

— Review of Symbolic Logic

— Revue Roumaine de Mathématiques Pures et Appliquées

— SDU Journal of Science

— Studies in History and Philosophy of Science

— Synthese

— Courses Taught:

Brief Calculus, Calculus I, Linear Algebra, Mathematical Structures, Introduction to Geometry, Number Theory, Abstract Algebra, Advanced Calculus, Intermediate Real Analysis, History and Philosophy of Mathematics, Introduction to Metamathematics, Galois Theory, The Banach-Tarski Paradox, Gödel's Incompleteness Theorems, Models of Peano Arithmetic.

— **SELECTED SERVICE**

- Dean's Search Committee (2006-2007).
- Arts & Sciences Promotion and Tenure Committee (2002, 2008, 2020)
- Co-Chair of Arts & Sciences Personnel Committee ('99-2000)
- Advising for Secondary Education Mathematics Majors (January 1994–2003)
- Arts & Sciences Salary Equity Committee (January 1994-September 1996, Chair ('95-'96), Fall 2006),
- Arts & Sciences Curriculum Committee (September 1994-September 1996, Co-Chair ('95-'96), '99-2000, 2002-2006, Chair (Fall 2006)),
- Setting up the Mathematics Library at the Fletcher Library (1994–1999),
- Speaker at Mountain Point High School in Ahwatukee (11/9/94, 2 hours).
- Speaker at Chaparral High School (8/31/94, 1 hour)
- Speaker at OASIS (Metrocenter) (11/5/97, 1.5 hours)
- Speaker at Rio Saladao Education Center (11/10/99, 1 hour)
- Member of the ASU Team in the 10km 16th Annual Dial Corporate Challenge, March 2, 1996
- Preparing Future Faculty Mentor (Fall 1996 —); mentored Doug Drinen
- “Expanding Your Horizons” workshops presenter, 4/12/96.
- Articulation Task Force with the College of Education at ASU West, November 1996
- Academic Senate Member (academic year 97/98, 08-09)
- Reviewer for *Mathematical Reviews* (1992—) and *Zentralblatt für Mathematik und Grenzgebiete* (1989—)
- Mathematics Judge on the Trevor Brown High School Mathematics Invitational Competition (11/21/98).
- Member of the Emil Artin Junior Prize in Mathematics Committee (1999-).
- Member of the Applied Computing Committee (Department Chair Search and Curriculum) (2001-2002)
- Parliamentarian of the College of Arts & Sciences (2001-2002)
- Member of the Travel Authorization Committee (Spring 2004).
- President of the West Campus Academic Assembly (2009-2010)
- HArCS Personnel Committee (2008-2009)
- MNS Personnel Committee (2019-2020)
- Two Probationary Review Committees (Fall 2009)
- Past President of the West Campus Academic Assembly (2010-2011)
- Member of the Graduate Curriculum Committee (2010-2011)
- Speaker at the Undergraduate Math Club at the Mathematics Department in Tempe (2010)
- University P& T Committee (2012-2014)
- Chair of Library Liaison Committee (2012-2014)
- NCUIRE Awards Committee Member (2012-2014)
- MNS Curriculum Committee Member (2012-2014)
- Chair, NCIAS P& T Committee (2023-2025)
- Chair. MNS Bylaws Committee (2024-2025)