

CURRICULUM VITAE

VICTOR V. PAMBUCCIAN

—ADDRESS, E-MAIL, TELEPHONE

— Work: School of Mathematical and Natural Sciences
Arizona State University - West campus, P O Box 37100
Phoenix, AZ 85069-7100
— e-mail: pamb@math.west.asu.edu
Tel.: (602)-543-3021

—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 (1974-1978)
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, Italy

—PUBLICATIONS

— Refereed Journal articles:

- [2022b] V. Pambuccian, Two statements characterizing the Euclidean metric of a metric plane. *Elemente der Mathematik* **77** (2022), no. 4, 171–179.
- [2022a] V. Pambuccian; C. Schacht, The case for the irreducibility of geometry to algebra. *Philosophia Mathematica* (3) **30** (2022), No. 1, 1–31.
- [2021c] 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 Steiner-Lehmus 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.
- [2009b]. V. Pambuccian, A reverse analysis of the Sylvester-Gallai theorem, *Notre Dame Journal of Formal Logic* 50 (2009), 245–260.
- [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.
- [2008g] V. Pambuccian, On a paper of Dan Barbilian, *Note di Matematica* 29 (2008), 29–31.
- [2008f] V. Pambuccian, The sum of irreducible fractions with consecutive denominators is never an integer in PA^- , *Notre Dame Journal of Formal Logic* 49 (2008), 425–429.
- [2008e] V. Pambuccian, Elementary versions of the Sylvester-Gallai theorem, *Beiträge zur Algebra und Geometrie* 49 (2008), 335–339.
- [2008d] V. Pambuccian, Lambert or Saccheri quadrilaterals as single primitive notions for plane hyperbolic geometry, *Journal of Mathematical Analysis and Applications* 346(2008) 531–532.
- [2008c] V. Pambuccian, The Erdős-Mordell inequality is equivalent to non-positive curvature, *Journal of Geometry*, 88 (2008), 134–139.
- [2008b]. V. Pambuccian, The elementary geometry of a triangular world with hexagonal circles, *Beiträge zur Algebra und Geometrie* 49, 165–175 (2008).
- [2008a]. V. Pambuccian, Axiomatizing geometric constructions, *Journal of Applied Logic* 6 (2008), 24–46.
- [2007c]. V. Pambuccian, Alexandrov-Zeeman type theorems expressed in terms of definability, *Aequationes Mathematicae* 74 (2007), 249–261.
- [2007b]. V. Pambuccian, Orthogonality as single primitive notion for metric planes. *Beiträge zur Algebra und Geometrie* 48 (2007), 399–409.
- [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.

- [2006b]. V. Pambuccian, Logical asides on the maximality of a subgroup, *Note di Matematica* **26** (2006), no. 1, 105–108.
- [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.
- [2005d]. V. Pambuccian, Three-dimensional hyperbolic geometry with planes and plane parallelism as only primitive notions, *Glasnik Matematički* **40** (2005), 319–321.
- [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.
- [2004f]. V. Pambuccian, Hyperbolic geometry in terms of point-reflections or of line-orthogonality, *Mathematica Pannonica* **15** (2004), 241–258.
- [2004e]. V. Pambuccian, Axiomatization of Euclidean geometry in terms of points, equilateral triangles or squares, and incidence, *Indagationes Mathematicae*, **15** (2004), 413–418.
- [2004d]. V. Pambuccian, The simplest axiom system for plane hyperbolic geometry, *Studia Logica* **77** (2004), 385–411.
- [2004c]. V. Pambuccian, Fragmente der hyperbolischen Geometrie, *Publicationes Mathematicae Debrecen* **65** (2004), 81–95.
- [2004b]. V. Pambuccian, Early examples of resource-consciousness, *Studia Logica* **77** (2004), 81–86.
- [2004a]. H. Havlicek, V. Pambuccian, On the axiomatics of projective and affine geometry in terms of line intersection, *Resultate der Mathematik* **45** (2004), 35–44.
- [2003g]. V. Pambuccian Why are Surjective Lineations Between Archimedean Ordered Hyperbolic Spaces Motions?, *Acta Mathematica Hungarica* **100** (2003), 33–37.
- [2003f]. V. Pambuccian, Aufbau der hyperbolischen Geometrie aus dem Geraden-orthogonalitätsbegriff, *Acta Mathematica Hungarica* **101** (2003), 51–61.
- [2003e]. V. Pambuccian, Constructive axiomatization of non-elliptic metric planes, *Bulletin of the Polish Academy: Mathematics* **51** (2003), 49–57.
- [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.
- [2003b]. V. Pambuccian, What is plane equiaffine geometry? *Aequationes Mathematicae* **66** (2003), 90–99.
- [2003a]. A. Blass, V. Pambuccian, Sperner spaces and first-order logic, *Mathematical Logic Quarterly* **49** (2003), 111–114.
- [2002c]. V. Pambuccian, Axiomatizations of hyperbolic geometry: a comparison based on language and quantifier type complexity, *Synthese* **133** (2002), 331–341, correction *Synthese* **145** (2005), 497.
- [2002b]. V. Pambuccian, A universal axiom system for Salow’s generalized Halbdrehungsebenen, *Demonstratio Mathematica* **35** (2002), 839–841.
- [2002a]. V. Pambuccian, On definitions in an infinitary language, *Mathematical Logic Quarterly* **48** (2002), 522–524.
- [2001g]. V. Pambuccian, On R. Baer’s generalized hyperbolic planes, *Publicationes Mathematicae Debrecen* **59** (2001), 103–109.
- [2001f]. V. Pambuccian, Mohr-Mascheroni as an axiomatizability statement, *Bulletin of the Polish Academy of Sciences: Mathematics* **49** (2001), 319 – 326,
- [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.
- [1998b]. V. Pambuccian, Euclidean superpythagorean geometry, *Beiträge zur Algebra und Geometrie* **39** (1998), 255–258.
- [1998a]. V. Pambuccian, Zur konstruktiven Geometrie euklidischer Ebenen, *Abhandlungen aus dem mathematischen Seminar der Universität Hamburg* **68** (1998), 7–16.
- [1997]. V. Pambuccian, On the simplicity of axiom systems for Euclidean geometry, *Demonstratio Mathematica* **30** (1997), 509–512.
- [1996c] V. Pambuccian, Splitting the Pasch axiom, *Journal of Geometry* **56** (1996), 126–130.
- [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.
- [1995b]. V. Pambuccian, Simple axiom systems for affine geometry, *Zeszyty Naukowe Geometria* **21** (1995), 59–74.
- [1995a]. V. Pambuccian, Ternary operations as primitive notions for constructive plane geometry VI, *Mathematical Logic Quarterly* **41** (1995), 384–394,
- [1994d]. V. Pambuccian, Zum Stufenaufbau des Parallelenaxioms, *Journal of Geometry* **51** (1994), 79–88.
- [1994c]. V. Pambuccian, Le plus simple système d’axiomes pour la géométrie élémentaire *Bulletin of the Polish Academy: Mathematics* **42** (1994), 77–84.
- [1994b]. V. Pambuccian, Ternary operations as primitive notions for constructive plane geometry V, *Mathematical Logic Quarterly* **40** (1994), 455–477.
- [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.
- [1992b]. V. Pambuccian, Ternary operations as primitive notions for constructive plane geometry II, *Zeitschrift für mathematische Logik und Grundlagen der Mathematik* **38** (1992), 345–348.
- [1992a]. V. Pambuccian, Intuition, Mathematik und die Existenzweise des Seins, *Science of Man/ Wissenschaft vom Menschen* **3** (1992), 87–119.
- [1990b]. V. Pambuccian, Unit distance as single binary predicate for plane Euclidean, geometry, *Zeszyty Naukowe Geometria* **18** (1990), 5–8,
- [1990a]. V. Pambuccian, On the Pythagorean hull of \mathbb{Q} ,

Extracta Mathematica 5 (1990), 29–31.

[1989c]. V. Pambuccian, Ternary operations as primitive notions for constructive plane geometry, *Zeitschrift für mathematische Logik und Grundlagen der Mathematik* 35 (1989), 531–535.

[1989b]. V. Pambuccian, Another example of an exotic function, *The American Mathematical Monthly* 96 (1989), 913–914.

[1989a]. V. Pambuccian, Simple axiom systems for Euclidean geometry, *Mathematical Chronicle* 18 (1989), 63–74.

[1988]. V. Pambuccian, Simplicity, *Notre Dame Journal of Formal Logic* 29 (1988), 396–411.

[1987b]. V. Pambuccian, Elias Canettis “Blendung”. Darstellung eines nekrophilen Gelehrten, *Psyche (Stuttgart)* 41 (1987), 915–928.

[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.

[1984b]. V. Pambuccian, Elementary Euclidean geometry and algebra. A dualist point of view, *Nepali Mathematical Sciences Report* 9 (1984), 45–62.

[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.
 - Nora Iuga, *Stingy Balkan Poets Tongue*, *International Poetry Review* **44** (2021)
 - Nora Iuga, *In the White Space a Foreign Hand*, *International Poetry Review* **44** (2021)
 - Nora Iuga, *The night of the anniversary*, *International Poetry Review* **46** (2023)
 - Tristan Tzara, *Sunday*, *International Poetry Review* **38** (2012), Fall;
 - Disgust, Journey, Cousin, boarding school girl*. *International Poetry Review* (2014).
 - Constantin Abăluță, *On rain’s street*, *Two Lines* 19 (2012) “Passageways”, 36–39.
 - 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* (2014).
 - Vintilă Ivănceanu, *Four poems*, *Pleiades*, Winter 2016.
- 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*, in *The Antonym* (2022)
- V. Pambuccian, Berge Turabian, a contemporary troubadour, *The Armenian Reporter International*, May 6 (2000), p. 8.

— Book chapters

- [1994] V. Pambuccian, From recreational to foundational mathematics, in: *The Lighther 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,
- [2006] 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.
- [2017] V. Pambuccian, H and R Struve, Metric geometries in an axiomatic perspective, In Ji, Papadopoulos, Yamada (eds), *From Riemann to differential geometry and relativity*, 413–455, Springer, 2017.
- [2019a] 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.
- [2019b] V. Pambuccian, A theorem on equiareal triangles with a fixed base. In: V. Alberge, A. Papadopoulos (eds), *Eighteen essays in non-Euclidean geometry*, 427–437, IRMA Lect. Math. Theor. Phys., 29, Eur. Math. Soc., Zürich, 2019
- [2022] V. Pambuccian, Varieties of infiniteness in the existence of infinitely many primes. In: R. Kahle, F. Ferreira, G. Sommaruga (eds), *Axiomatic thinking. II*, 157–164, Springer, Cham, 2022.
- [2023a] V. Pambuccian, The intuition of a move of time. In: A. Papadopoulos (ed), *Essays in geometry. Dedicated to Norbert A’Campo*, 875–885, EMS Press, Berlin, 2023.
- [2023b] V. Pambuccian, Brouwer’s intuitionism. Mathematics in the being mode of existence In: Sriraman, B. (ed) *Handbook of the History and Philosophy of Mathematical Practice*. Springer, Cham, 55pp, 2023

— 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.

Aracne editrice, Roma, 2018 (300 pages).

— **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.

26. Invited talks. Lectiones Commandinianae, University of Urbino. Ten lectures, March-May 2022

— **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 (Birkhäuser) (2023—)