

List of Publications

Peer-reviewed Journal publications

- [2009b]. V. Pambuccian, A reverse analysis of the Sylvester-Gallai theorem, *Notre Dame Journal of Formal Logic* **50** (2008), 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, Zbl 1169.51017.
- [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, MR 2009h:03083.
- [2008e]. V. Pambuccian, Elementary versions of the Sylvester-Gallai theorem, *Beiträge zur Algebra und Geometrie* **49** (2008), 335–339, Zbl 1161.51001, MR 2009i:51001.
- [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, Zbl 1156.51015, MR 2009f:51019.
- [2008c]. V. Pambuccian, The Erdős-Mordell inequality is equivalent to non-positive curvature, *Journal of Geometry*, **88** (2008), 134–139, Zbl 1140.51009, MR 2009e:51022.
- [2008b]. V. Pambuccian, The elementary geometry of a triangular world with hexagonal circles, *Beiträge zur Algebra und Geometrie* **49**, 165–175 (2008), Zbl 1146.51009, MR 2009c:51020.
- [2008a]. V. Pambuccian, Axiomatizing geometric constructions, *Journal of Applied Logic* **6** (2008), 24–46, Zbl 1143.03007, MR 2009b:51022.
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- [2006c]. V. Pambuccian, Positive definitions of segment congruence in terms of segment inequality, *Aequationes Mathematicae* **72** (2006), 243–253, Zbl 1117.51018, MR 2007h:51011.
- [2006b]. V. Pambuccian, Logical asides on the maximality of a subgroup, *Note di Matematica* **26** (2006), no. 1, 105–108, MR 2007i:03038.
- [2006a]. V. Pambuccian, Remarks, du côté de chez Tarski, on symmetric ternary relations, *Journal of Geometry* **84** (2006), 94–99, Zbl 1089.51502, MR 2006k:51024.
- [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, Zbl 1100.51012, MR 2007e:51024.
- [2005e]. V. Pambuccian, Groups and plane geometry, *Studia Logica* **81** (2005), 387–398, Zbl 1086.03007, MR 2006h:03054.
- [2005d]. V. Pambuccian, Three-dimensional hyperbolic geometry with planes and plane parallelism as only primitive notions, *Glasnik Matematički* **40** (2005), 319–321, MR 2006i:51024, Zbl 1088.51011.
- [2005c]. V. Pambuccian, Elementary axiomatizations of projective space and of its associated Grassmann space, *Note di Matematica* **24** (2004/2005), 129–141, MR 2006h:51002.
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- [2005a]. V. Pambuccian, Euclidean geometry problems rephrased in terms of midpoints and point-reflections, *Elemente der Mathematik* **60** (2005), 19–24, Zbl 1082.51011, MR 2007f:51024.
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- [2004f]. V. Pambuccian, Hyperbolic geometry in terms of point-reflections or of

line-orthogonality, *Mathematica Pannonica* **15** (2004), 241–258, MR 2005f:51021, Zbl 1075.51005.

- [2004e]. V. Pambuccian, Axiomatization of Euclidean geometry in terms of points, equilateral triangles or squares, and incidence, *Indagationes Mathematicae*, **15** (2004), 413–418, MR 2005f:51020, Zbl 1064.51013.
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Non peer-reviewed publications:

- V. Pambuccian, Translations from the 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
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- V. Pambuccian and Raffi Kantian, Translation of the poem *ABalance sheet* by Wahan Tekejan from Armenian to German, *ADK Armenisch-Deutsche Korrespondenz* 114 (2001), Nr. 4. p. 48.
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- V. Pambuccian, An inequality for triangles, *The American Mathematical Monthly* 116 (2009), 88–89.
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- V. Pambuccian, Prime factors for perfect numbers, *The American Mathematical Monthly* 94 (1987), 794–795.
- V. Pambuccian, Putnam permutations, *The American Mathematical Monthly* 94 (1987), 687–688.

Proposed problems:

- V. Pambuccian, Pythagorean triangles are not quite perfect, *The American Mathematical Monthly* 113 (2006), 848–850.
- V. Pambuccian, Saccheri quadrilateral, *The American Mathematical Monthly* 112 (2005), 88–89.
- V. Pambuccian, Weak contractions, *The American Mathematical Monthly* 95 (1988), 774–776.
- V. Pambuccian, A square in a polyhedron, *The American Mathematical Monthly* 92 (1985), 591–592.

Papers accepted for publication in peer-reviewed journals

- V. Pambuccian, On a paper of Dan Barbilian, *Note di Matematica*.
- F. Kalhoff, V. Pambuccian, Positive existential definability of parallelism in terms of betweenness in Archimedean ordered affine geometry, *Rocky Mountain Journal of Mathematics*.
- V. Pambuccian, Acute triangulation of a triangle in a general setting, *Canadian Mathematical Bulletin*.
- V. Pambuccian, Forms of the Pasch axiom in ordered geometry, *Mathematical Logic Quarterly*.
- V. Pambuccian, Universal-existential axiom systems for geometries expressed with Pieri's isosceles triangle as single primitive notion, *Rendiconti del Seminario Matematico di Torino*.
- V. Pambuccian, On the equivalence of Lagrange's axiom to Bachmann's *Lotschnittaxiom*, *Journal of Geometry*.

Papers submitted for publication

- V. Pambuccian, Weakly ordered plane geometry.
- V. Pambuccian, The axiomatics of ordered geometry.

Book reviews

- More than 600 reviews for *Zentralblatt MATH* and for *Mathematical Reviews*
- Robin Hartshorne, Geometry. Euclid and beyond, *The American Mathematical Monthly* 110 (2003), 66–70.
- W. G. Boskoff, Hyperbolic geometry and Barbilian spaces, Hadronic Press 1996, *The Mathematical Intelligencer* 21 (1999), 77-79.
- Wanda Szmielew, From affine to Euclidean geometry, D. Reidel, 1983, *The American Mathematical Monthly* 93 (1986), 74-75.

— Published proceedings

- V. Pambuccian, Axiomatizations of hyperbolic and absolute geometries, A. Prékopa and E. Molnár (eds.), pp. 119–153 in *Non-Euclidean geometries: Janos Bolyai Memorial Volume*, Springer Verlag, New York, 2006, Zbl 1106.51008, MR 2006j:51014
- 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.