

CV

Athanasé Papadopoulos

Born in 1957

Position : Directeur de Recherche (1st class).

Employer : Centre National de la Recherche Scientifique.

French citizen

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Work :

Institut de Recherche Mathématique Avancée

(Université de Strasbourg et CNRS)

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1. RESEARCH

Fields of interest : Geometry and topology in low dimensions, metric geometry, complex analysis, metric geometry, combinatorial group theory, dynamical systems, history of mathematics.

(About 180 publications, including 30 monographies and edited books.)

2. DIPLOMAS

1981 Ingénieur, Ecole Centrale de Paris

1983 Doctorat de troisième cycle (PhD), mathematics, Université de Paris-Sud (Orsay)

1989 Doctorat d'Etat (Habilitation), mathematics, Université de Paris-Sud (Orsay)

3. POSITIONS HELD

1983-84 Assistant associé, Université de Paris-Sud, Orsay

Since Octobre 1984 : Full-time researcher at CNRS.

4. VISITING POSITIONS (FOR ONE MONTH AND MORE)

December 1983 : Université de Genève.

Juin 1983 : University of Florence

1984-85 Institute for Advanced Study (Princeton)

April 1985 : MSRI (Berkeley)

April-June 1986 : UNAM (Mexico)

Novembre & December 1986 : University of Pisa

February to June 1988 : Max-Planck Institut, Bonn

February to May 1989 : University of Southern California (Los Angeles)

April to June 1990 : Max-Planck-Institut (Bonn)

February 1991 : University of Florence

1993-94 : Institute for Advanced Study (Princeton)

July to September 1994 : Max-Planck Institut, Bonn

March and April 2003 : University of Florence.

March to May 2006 and September 2006 : Max-Plank Institut, Bonn
 April 2006 : Center for Topology and Quantization of Moduli Space (Aarhus).
 January-February 2009 and July-August 2009 : Max-Plank Institut, Bonn
 October 2009 : EPFL (Lausanne).
 May 2010 : Hausdorff Mathamtics Institute, Bonn
 April and May 2011 : Max-Plank-Institute, Bonn.
 January 2011 : Osaka (City University of Osaka).
 April and May 2011 : Max-Planck Institut, Bonn.
 November-December 2011 : Osaka (University of Osaka, 1 month)
 February to April 2013 : Erwin Schrödinger Institut (Vienna).
 January 2014 : Erwin Schrödinger Institut (Vienna)
 March-August 2014 : Galatasaray University, Istanbul.
 September 2014-December 2014 : CUNY, Ada Peluso Professor (New York)
 April and May 2015 : Max-Plank-Institute (Bonn)
 October 2015 : CUNY, Graduate Center (New York)
 December 2015, Tokyo (Gakushuin Univ.)
 January-February 2016 : Tata Institute (Bombay)
 October 2016 : CUNY, Graduate Center
 November 2016 : Max-Plank-Institute (Bonn)
 January-June 2017 : Distinguished Visiting Professor, Brown University.
 September 2017 : Gakushuin University, Tokyo.
 November-December 2017 : Bangalore (ICTS) and Banaras Hindu University.
 April 2017 : Fudan University (Shanghai)
 May 2017 : CUNY and Brown University
 September-December 2018 : Tsinghua University (Beijin)
 January-February 2018 : Presidency University (Calcutta) and Tata Institute
 (Bombay)
 April-June 2018 : UNAM (Mexico)
 April-June 2019 : Lamé chair (Saint Petersburg)

5. PHD STUDENTS

Sonia Cannas (PhD started in 2016)
 Firat Yasar (PhD started in 2016)
 Elena Frenkel (PhD started in 2014)
 Vincent Alberge (PhD obtained in 2016)
 Ahmad Said (PhD obtained in 2013)
 Valentina Disarlo (PhD obtained in 2013)
 Ousama Malouf (PhD obtained in 2011)
 Moreno Andreatta (Habilitation obtained in 2010)
 Guillaume Théret (PhD obtained in 2006)
 Abdelhadi Belkhirat (PhD obtained in 2003)
 Jean-Christophe Curtillet (PhD obtained in 1998)
 Mohammed Mesmoudi (PhD obtained in 1994)
 Michel Coornaert (PhD obtained in 1991)

6. ORGANIZATION AND SCIENTIFIC COMMITTEES OF INTERNATIONAL CONFERENCES (THE MOST RECENT ONES)

- June 2020, Conference on Teichmüller theory, org. A. Papadopoulos, Euler Instiute (St Petersburg).
- December 5, 2019–December 15, 2019, CIMPA Research School, DST Centre for Interdisciplinary Mathematical Sciences, Institute of Science, Banaras Hindu

University, India. Co-organisers Banktешwar Tiwari, S. G. Dani and K. Gongopadhyay.

- March, 4–8, 2019, Moduli spaces, Tsinghua Unive. (Beijin), co-organisers L. Ji, J. Jost and S.-T. Yau.
- 17 December–21 décembre 2018, “The Legacy of Joseph Fourier”, co-organisateurs : L. Ji, S.-T. Yau, Tsinghua Sanya International Mathematics Forum, Chine.
- New Trends in Teichmüller Theory and Mapping Class Groups, MFO Oberwolfach, 2–8 Sep 2018. Co-organisers : K. Ohshika, R.C. Penner and A. Wienhard,
- September 13–15, 2018 ; IRMA Strasbourg, Combinatorics, topology, and biology. International conference dedicated to to Bob Penner
- June 7–19, 2018, IRMA, Strasbourg. Geometry, topology of manifolds, and physics. International conference dedicated to Vladimir Turaev.
- Orsay, 11–13 juin 2018, Topologie différentielle et mathématiques d’aujourd’hui, International conference in honor of the 90th birthday of Jean Cerf. Co-organisers : F. Bourgeois, F. Laudenbach, V. Poenaru and L. Siebenmann,
- Geometry, Groups and Dynamics, 6 –24 November 2017, International Center for Mathematiccal Sciences, Bangalore, Co-organisers : C. S. Aravinda, S. G. Dani, and K. Gongopadhyay.
- Strasbourg, September 7–9, 2017, Geometry, Dynamics and Physics. (The 100th Encounter between Mathematicians and Theoretical Physicists). Co-organisers : N. A’Campo and S. Yamada,
- Strasbourg, June 8–10, 2017, Geometry and Physics. (The 99th Encounter between Mathematicians and Theoretical Physicists). Co-organisers : V. Alberge and K. Ohshika,
- Beijing, February 27 – March 3, 2017, Conference on Moduli spaces and applications in geometry, topology and mathematical physics, Morningside Center for Mathematics, Chinese Academy of Sciences. Co-organisers : L. Ji, J. Jost and X. Sun,
- Strasbourg 2-4 june 2016, Around Poincaré, (Co-organisers : Lizhen Ji and Sumio Yamada)
- Strasbourg 1-3 September 2016, A tribute to René Thom (Co-organiser Florence Lecomte)
- Conference : Teichmüller theory (co-organisers Ken’ichi Ohshika, Ser Peow Tan et Weixu Su), 11-16 January 2016, Tsinghua Sanya International Mathematics Forum, China.
- Tianjin, China (Chern Center) (co-organisers Lizhen Ji, Weixu Su and L. Schneps) Conference on Grothendieck-Teichmüller theory, 20-27 July, 2016.
- 20-27 September 2015, University of Cagliari, Master-class on Funsker geometry (co-organiser Rezo Caddeo).
- Strasbourg, 10-11 September 2015, Symposium “Mathématiques et musique : des Grecs à Euler”. (Co-organiser : X. Hascher)
- Strasbourg, 17-19 September 2015, Geometry and Biophysics. (C-organisers : R. Penner and J. Sulkowska)
- Workshop ”Spherical and hyperbolic geometry” IRMA, 2-3 March, 2015, Strasbourg Co-organiser D. Slutskiy.
- “Geometry, arithmetic and physics : Around motives” Strasbourg, 28-30 May 2015. Co-organiser Florence Lecomte.
- French-Japanese workshop on Teichmüller spaces and surface mapping class groups, Strasbourg, 4-5 juin, 2015. Co-rganiser Alberge.
- “Geometry in History” Strasbourg, 11-12 June, 2015. Co-organiser S.G. Dani.
- December 2014, Conference on group actions, (co-organisers L. Ji et S.-T. Yau) Tsinghua Sanya International Mathematics Forum, China.

- September 2014, University of the Aegean (Samos) Conference on Geometry (co-organiser G. Tsapogas, N. A'Campo)
- 18-10 September 2014, University of Strasbourg, "Riemann, Einstein and geometry" (co-organiser Sumio Yamada)
- September 2012, University of Strasbourg, "Lie, Klein and the Erlangne program" (co-organiser Lizhen Ji)
- June 2014, University of Strasbourg, "Riemann, topology and physics" (co-organiser Lizhen Ji)
- June 2014, Rabat (Maroc) Conference on moduli spaces in honor of Bill Thurston (scientific committee).
- May 2014, University of Strasbourg, Master-class and conference "Around Thurston-Grothendieck-Teichmüller theories".
- April 2014, University of Galatasaray (Istanbul), Master-class and conference on Finsler geometry (co-organisers Muhammed Uludag and Norbert A'Campo).
- February 2014, Oberwolfach, conference on Teichmüller theory (co-organisers R. Penner, S. Morita and A. Weinhard)
- November 2013, University of Galatasaray, Japanese-Turkish Geometry conference (scientific committee)
- Scientific and organisation committee of the RAMJAS International conference on the history of mathematics, Delhi, November 2013.
- September 2013, University of Strasbourg, "Entropy in mathematics and in physics", co-organiser Nicolas Juillet.
- May 2013, University of Samos, Conference on Finsler Geometry (co-organisers G. Tsapogas, M. Uludag, C. Vernicos).
- January to April 2013 : co-organiser (with Penner, Funar and Neretin) of a trimester at the Erwin-Schrödinger Institut (Vienna) on Teichmüller theory. The semester involved also a master-class and two international conferences.
- August 2012 Centre for Quantization, Geometry and Topology, Aarhus. Master class and conference "Around the Ehrenpreis conjecture" (co-organisers R. Penner and J. E. Andersen).
- July 2012 Kunming, China , Conference on "Group Actions and Applications in Geometry, Topology and Analysis", (co-organisers L. Ji and S. T. Yau)
- Scientific and organisation committee of the RAMJAS International conference on the history of mathematics, Delhi, November 2012.
- American Institute of Mathematics, Palo Alto, October 2012. Co-organisation with Kasra Rafi, Fanny Kassel and Jing Tao of the workshop "Thurston's metric on Teichmüller space",
- October 2012. Organisation and scientific committee of the conference "Teichmüller theory and arithmetic", Galatasaray University, Istanbul,
- June 2012 Strasbourg. : Conference "Mapping class groups and quantum topology", (I was part of the scientific committee)
- November 2011, University of Galatasaray, Istanbul, "Geometry and arithmetic around Teichmüller theory", (Scientific committee)
- November 2011 : Conference in honor of Peter Buser, Centre Stefano Franscini, Ascona (Scientific committee)
- June-July 2010, EMS-ESF-ERCOM at CRM (Barcelona) "Teichmüller Theory in Mathematics and Physics" (co-organisers R. C. Penner and S. Morita).
- February 2010, Oberwolfach, conference on Teichmüller theory (co-organisers R. Penner and S. Morita)
- June 2009, conference on Teichmüller theory CIRM (Luminy), scientific committee.

- September 2011, Strasbourg, conference on “Lorentz geometry in mathematics and in physics”. (Co-organiser : Charles Boubel).
- September 2011, Strasbourg, conference on “Discretization in mathematics and in physics”. (Co-organiser : Dmitry Millionschikov).
- Membre of the scientific committee of the conference “Mathematics and Computation in Music Conference” (MCM 2011), IRCAM, Paris, 5-17 juin, 2011.
- September 2010, Strasbourg, conference on “Moduli spaces in mathematics and in physics” (co-organiser V. Fock).
- June 2010, Strasbourg, conference on “Geometric aspects of probability and relativity theory”. (Co-organiser : Jacques Franchi).
- September 2009, Strasbourg, conference on “Quantum Topology and Chern-Simons theory” (co-organiser Gwenaél Massuyeau)
- June 2009, Strasbourg, conference on “Representation theory in mathematics and in physics”. (co-organiser : S. Souaifi).
- Co-organiser and scientific committee of the “Conference on Geometry and Its Applications”, Polytechnic Institute of Bucharest, October 2008, 2009, 2010, 2011, 2012, 2013.
- Co-organisateur with Xavier Hascher of a yearly symposium in Strasbourg on mathematics and music.

Other organization responsibilities

- In charge of a link (Strasbourg, Zurich, Grenoble, Nice) for the GEAR program (NSF Research Networks in Mathematical Science) “Topology, geometry, and dynamics of character varieties”, 2012-2018.
- In charge of the French ANR research network “géométrie de Finsler et applications”, 2012-2016.
- Organiser of the Geometry and Topology seminar at the University of Strasbourg, since 1991.
- In the last 5 years, I have been in charge (main investigator) of CNRS collaborative projects with China (CNRS-NSFC (Chine), Turkey (CNRS-TUBITAK) and Switzerland (Germaine de Staël) and in charge of the section “Groupes de difféotopies et espaces de Teichmüller” of the French research network GDR 2105.
- Member of the national evaluation committees of the Greek universities, Ioannina (2011), Athens (2012) and Patras (2013).

7. BOOK EDITION

I am the author and/editor of several volumes.

7.1. Handbook of Teichmüller Theory, Vol. I–VII. Several volumes, published by the EMS (European mathematical society). Volume I (2006), Volume II (2008), Volume III (2012), Volume IV (2014), Volume V (2016), Volume VI (2016), Volume VII will appear in 2018.

7.2. Master-class of geometry. A collection of courses by N. A’Campo - A. Papadopoulos, F. Dal’Bo, G. Link, F. Herrlich, J. Marché, C. Petronio, S. Matveev and V. Schröder. EMS (2012).

7.3. Leonhard Euler, Mathématicien, physicien et théoricien de la musique. Co-editor X. Hascher (musicologist), CNRS Edition, CNRS Editions, Paris, 2015. The authors are P. Bailhache, D. Foata, X. Hascher, Y. Hellegouarch, Ch. Houzel, F. Jedrzejewski, P. Jehel, G. Thérét, A. Kleinert, E. Knobloch, Ch. Thérét, F. Nicolas and A. Papadopoulos.

- 7.4. **The collected musical works of Euler.** Collective book, with translations from the Latin and French into English, and commentaries, R. Caddeo, P. Jehel, X. Hascher and H. Papadopoulos. 2 volumes, 2015, Hermann, Paris.
- 7.5. **Handbook of Hilbert Geometry.** (Editors : A. papadopoulos and M. Troyanov), chapters by Vernicos, Walsh, Lemmens-Nussbaum, Papadopoulos, Papadopoulos-Troyanov, Papadopoulos-Yamada, Marquis, Crampon, Alvarez-Paiva, Guo, Nussbaum, Karlsson, Troyanov, Ohshika-Miyachi-Yamada, Papadopoulos-Kim, European Mathematical Society, 2014.
- 7.6. **La théorie des parallèles de Lambert.** Critical edition with English translation and mathematical and historical commentary, ed. Blanchard (Paris), coll. Sciences dans l'Histoire, Paris, 214 p., 2014.
- 7.7. **Handbook of Group Actions Vol. I–V.** Co-editors Lizhen Ji and S. T. Yau, International Press and Higher Education Press. About 15 authors in each volume. Volume I and II appeared in 2015, Volumes 3 and 4, 2018, Volume 5, 2019.
- 7.8. **Lie and Klein : The Erlangen program and its impact on mathematics and physics.** (Co-editor Lizhen Ji), The authors are : A'Campo-Papadopoulos, Frances, Goenner, Gray, Vinogradov, Meusburger, Ji. European Mathematical Society Publishing House, 2015.
- 7.9. **From Riemann to differential geometry and relativity.** Editors : L. Ji, A. Papadopoulos and S. Yamada, Authors : V. Alberge and E. Frenkel, J.-P. Bourguignon, J. Franchi, H. Goenner, J. Gray, C. Houzel, A. Hermann, E. Humbert, F. Jędrzejewski, M. Mars, K. I. Ohshika, L. Ji and S.-T. Yau, F. Luo, J.-P. Nicolas, A. Papadopoulos, G. Plotnitsky, T. Sunada, S. Yamada, V. Pambuccian, H. Struve, R. Struve. 2017, Springer Verlag.
- 7.10. **The collected works of Herbert Busemann.** Two volumes, with commentaries. Ed. A. Papadopoulos, Springer Verlag, 2018.
- 7.11. **Menelaus' Spherics.** , With Roshdi Rashed, *Menelaus' Spherics : Early Translation and al-Māhānī/ al-Harawī 's Version* (Critical edition of Menelaus' *Spherics* from the Arabic manuscripts, with historical and mathematical commentaries), De Gruyter, Series : Scientia Graeco-Arabica, 21, 2017, 890 pages.
- 7.12. **René Thom, Des mathématiques à la biologie et à la philosophie.** Collective book, ed. A. Papadopoulos, (Authors : Andreatta, Chaperon, Chenciner, Poenaru, Petitot, Papadopoulos, Ohshika, Jędrzejewski, Wildgen, Trotman, Fukuda, F. Thom) CNRS-Editions, 2018.
- 7.13. **In preparation : Geometry in History.** Collective book, edited by S. G. Dani and A. Papadopoulos (Authors : V. Poenaru, F. Laudembach, A. Papadopoulos, Y. Eliashberg, A. Chenciner, W. Goldman, V. Alberge, A. Mednykh, V. Pambuccian, K. Ohshika, K. Shiohama, T. Sunada, S. Tabachnikov) Springer Verlag, 2018.
- 7.14. **In preparation : Hyperbolic and spherical geometry.** Collective book (ed. V. Alberge and A. Papadopoulos) Authors : A'Campo, Papadopoulos, Frenkel, Attaoui, Senapati, Slutskyi, Abrosimov, Mednykh, Fillastre, Ho, Izmetiev. European Mathematical Society, to appear in 2018.
- 7.15. **In preparation : The complete musical writings of Christiaan Huygens.** translated into English with commentaries (R. Caddeo, X. Hascher, F. Jędrzejewski, A. Papadopoulos, Editors), to appear in 2018, Hermann, Paris.

- 7.16. **In preparation : Mathematics and music, From the Greeks to Euler.** ed. X. Hascher and A Papadopoulos, Collective book, chapters by Y. Bugeaud, C. Charitos, X. Hascher, R. Herman, A. Papadopoulos, S. Negrepontis, F. Jedrzejewski, S. Cannas. ed. Hermann, Paris, to appear in 2019.
- 7.17. **In preparation : The complete works of J. Sauveur.** , ed. F. Jedrzejewski and A Papadopoulos, ed. Hermann, Paris, to appear in 2019.
- 7.18. **In preparation : In the tradition of Thurston.** Collective book, edited by V. Alberge, K. Ohshika and A. Papadopoulos (Authors : A'Campo, Alberge, Baba, Berestovskii, Bonsante, Bowere, Erlandsson, Kashaev, Kojima, Lecuire, Meigniez, Miyachi, Ohshika, Papadopoulos, Sakuma, Théret) Springer Verlag, 2019.
- 7.19. **In preparation : Teichmüller spaces and dessins d'enfants.** Collective book, edited by L. Ji, A. Papadopoulos, W. Su, World Scientific, 2019.
- 7.20. **In preparation : Moduli spaces.** Collective book, edited by L. Ji, J. Jost and A. Papadopoulos, International Press and Higher Education Press, 2019.
- 7.21. **Géométrie et théorie des groupes : les groupes hyperboliques de Gromov.** (with M. Coornaert and T. Delzant) Lecture Notes in Mathematics, vol. 1441, Springer Verlag, 1990.
- 7.22. **Symbolic Dynamics and hyperbolic Groups.** (with M. Coornaert) Lecture Notes in Mathematics, Vol. 1539 (1993) Springer Verlag.
- 7.23. **Lobachevsky's Pangeometry.** Critical edition, with translation and mathematical commentary, Heritage of European Mathematics, Vol. 4, European Mathematics Publishing House, 322 pages, 2010.
- 7.24. **Metric spaces, convexity and nonpositive curvature.** 300 pages, European Mathematical Society (EMS), Zürich, 2005, second edition, 360 pages, 2014.
- 7.25. **Rigid actions of the mapping class group.** CTQM Master-Class series, European Mathematical Society Publishing House, 150 pages, in preparation.

8. TEACHING

Although my position is a purely research one, I teach regularly at the undergraduate and graduate levels at the University of Strasbourg.

I taught as a visiting professor at several universities : Florence, USC, CUNY, Brown, Univ. Rome, Osaka, Aarhus and at Summer Schools (Greece, Italy, Switzerland, India, Japan and Morocco).

RÉFÉRENCES

- [1] Difféomorphismes pseudo-Anosov et automorphismes symplectiques de l'homologie. Ann. scient. Ec. Norm. Sup., 4e série t. 15 (1982) 543–546.
- [2] Réseaux ferroviaires, difféomorphismes pseudo-Anosov et automorphismes symplectiques de l'homologie d'une surface., thèse 3e Cycle, Publ. Math. d'Orsay n° 83-03 (1983).
- [3] Réseaux ferroviaires et courbes simples sur une surface. C. R. Acad. Sc. Paris, t. 297 Série I (1983), 565-568.
- [4] Réseaux ferroviaires et feuilletages orientables sur une surface, C. R. Acad. Sc. Paris, t. 299, Série I, No 3, 1984, p. 85-88.
- [5] Sur la forme bilinéaire associée à un réseau ferroviaire, C. R. Acad. Sc. Paris, t. 301, Série I, No. 18, 1985, p. 833-836.
- [6] L'extension du flot de Fenchel-Nielsen au bord de Thurston de l'espace de Teichmüller, C. R. Acad. Sc. Paris, t. 302, Série I, No. 8, 1986, p. 325-327.
- [7] Deux remarques sur la géométrie symplectique de l'espace des feuilletages mesurés sur une surface. Ann. Inst. Fourier Grenoble , 36, 2 (1986), 127-141.

- [8] Geometric intersection functions and hamiltonian flows on the space of measured foliations on a surface *Pac. Jour. of Math.* Vol 124 No. 2 (1986) p.375-402.
- [9] (avec R. C. Penner) A characterization of pseudo-Anosov maps. *Pacific Jour. of Math.* Vol 130 No. 2 (1987) p. 359-377.
- [10] (avec John D. McCarthy) Involutions in surface mapping class groups. *l'Enseignement Mathématique*, t. 33 (1987), p. 275-290.
- [11] Sur le bord de Thurston de l'espace de Teichmüller d'une surface non compacte *Mathematische Annalen*, 282, (1988) p. 353-359.
- [12] (avec John D. McCarthy) Dynamics on Thurston's sphere of projective measured foliations. *Commentarii Mathematici Helvetici*, 64 (1989) p.133-166.
- [13] Trois études sur les feuilletages mesurés, Thèse d'Etat, Université de Paris-Sud, Orsay 1989.
- [14] (avec R.C. Penner) Enumerating pseudo-Anosov foliations. *Pacific Journal of Mathematics*, vol. 142 no. 1, (1990) p. 159-173.
- [15] (avec M. Coornaert and T. Delzant) Géométrie et théorie des groupes : les groupes hyperboliques de Gromov, *Lecture Notes in Mathematics*, vol. 1441, Springer Verlag, 1990.
- [16] On Thurston's boundary of Teichmüller space and the extension of earthquakes, *Topology and its Applications*, 41 (1991) p. 147-177.
- [17] (avec R. C. Penner) La forme symplectique de Weil-Petersson et le bord de Thurston de l'espace de Teichmüller, *C. R. Acad. Sci. Paris*, tome 312, série 1, n°11, p. 871-874 (1991).
- [18] (avec R. C. Penner) The Weil Peterrson symplectic structure at Thurston's boundary, *Transactions of the AMS* 335 (1993) p. 891-904.
- [19] (avec Ulrich Oertel) Intersection forms for measured laminations carried by a branched manifold, *Topology and Its Applications* 50 (1993) p. 99-116.
- [20] (avec M. Coornaert) Symbolic Dynamics and hyperbolic Groups, *Lecture Notes in Mathematics*, Vol. 1539 (1993) Springer Verlag.
- [21] (avec M. Coornaert) Une dichotomie de Hopf pour les flots géodésiques associés aux groupes discrets d'isométries des arbres, *Trans. AMS*, **343** no. 2, 883-898, 1994.
- [22] Foliations of surfaces and semi-Markovian subsets of subshifts of finite type, *Topology and its Applications* **66** 171-183, 1995.
- [23] (avec M. Coornaert) Sur une formule de transformation pour les densités conformes au bord des $CAT(-1)$ -espaces, *Comptes Rendus Acad. Sci. Paris*, t. 302, serie I, p. 1231-1236 (1995).
- [24] (avec M. Coornaert) A Fatou-type theorem for functions associated to conformal densities on the boundary of a metric tree, paru en russe dans *Itogi Nauki i Tekhniki, Seriya Sovremennaya Matematika i Ee Prilozheniya. Tematicheskie Obzory*, Vol. 21, Algebra-3, 1995. Traduction anglaise dans *Jour. of Math. Sciences*, Vol. 82, No. 6, 1996.
- [25] (avec John D. McCarthy) Fundamental domains in Teichmüller space, *Annales Academiae Scientiarum Fennicae, Mathematica*, Vol. 21, 1996, 151-166.
- [26] (avec M. Coornaert) Récurrence de marches aléatoires et ergodicité du flot géodésique sur les graphes réguliers, *Math. Scand.* 79 (1996), no. 1, 130-152.
- [27] (avec M. Coornaert) Positive λ -harmonic functions and conformal densities on homogeneous trees, *Journal of the London Math. Soc. (2)* vol. 55 (1997) No.3, p. 609-624.
- [28] (avec M. Coornaert) Upper and lower bounds for the mass of the geodesic flow on graphs, *Math. Proc. Cambridge Philos. Soc.* 121 (1997), no. 3, 479-493.
- [29] (avec M. Coornaert) Spherical functions and conformal densities at infinity of $CAT(-1)$ -spaces, *Trans. Amer. Math. Soc.* 351 (1999), pp. 2745-2762.
- [30] (avec J. D. McCarthy) The mapping class group and a theorem of Masur-Wolf, *Topology Appl.* 96 (1999), no. 1, 75-84.
- [31] (avec J. D. McCarthy) The visual sphere of Teichmüller space and a theorem of Masur-Wolf, *Annales Acad. Scient. Fennicae Mathematicae*, Vol. 24 (1999), 147-154.
- [32] *Mathématiques et musique chez J. S. Bach, L'Ouvert* (*Journal de l'Association des professeurs de mathématiques de l'Enseignement Public*), No. 100-101 , p. 90-101 (2000).
- [33] *Mathematics, Music and J. S. Bach*, *Rend. Sem. Fac Sci. Univ. Cagliari*, Vol 70 Fas. 2 (2000) p. 1-20.
- [34] (avec C. Charitos) The geometry of ideal polyhedra, The geometry of ideal 2-dimensional simplicial complexes, *Glasgow Math. J.* 43 (2001) p. 39-66.

- [35] (avec M. Coornaert) Horofunctions and symbolic dynamics on Gromov hyperbolic groups, *Glasgow Math. J.* 43 (2001) 425-456.
- [36] (avec Ulrich Oertel) Affine foliations and covering hyperbolic structures, *Manuscripta Math.* 104 (2001), no. 3, 383-406.
- [37] (avec M. Coornaert) Symbolic coding for the geodesic flow associated to a hyperbolic group, *Manuscripta Math.* 109, 465-492 (2002).
- [38] Piecewise-linear coordinates for affine foliations on surfaces, *Milan Journal of Mathematics*, 70 (2002) p. 265-290.
- [39] Mathematics and Music theory : From Pythagoras to Rameau, *Mathematical Intelligencer*, 24 (2002) 65-73.
- [40] (avec C. Charitos) Hyperbolic Structures and Measured Foliations on 2-Dimensional Complexes *Monatsh. Math.* 139 (2003) 1, 1-17
- [41] *Matematica nella musica di Olivier Messiaen*, *Lettera Matematica Pristem*, 47 p. 27-41, Springer (2003).
- [42] Spaces of foliations on Surfaces, *Rend. Sem. Fac Sci. Univ. Cagliari*, Vol. 73, Fas. 1 (2003) p. 1-18.
- [43] (avec U. Oertel) Broken Hyperbolic structures and affine foliation on surfaces, *Indag. Math. (N.S.)* 15 (2004), no. 2, 269-282.
- [44] (avec R. C. Penner) The Weil-Petersson form and affine foliations on surfaces, *Annals of Global Analysis and Geometry*, 27 (2005), 53-77. 39.
- [45] *Medie e Proporzioni nella musica greca*, *Lettera Matematica Pristem*, Vol. 55, p. 41-48, Springer, Milano, 2005.
- [46] Consonance musicale et complexité mathématique, *L'Ouvert (Journal de l'Association des professeurs de mathématiques de l'Enseignement Public)*, No. 112 , p. 47-68, 2005.
- [47] *Metric spaces, convexity and nonpositive curvature*, 300 pages, European Mathematical Society (EMS), Zürich, 2005.
- [48] (avec A. Belkhirat and M. Troyanov) On Thurston's nonsymmetric metric on Teichmüller space, *Trans. Amer. Math. Soc.* 357 (2005), no. 8, 3311-3324.
- [49] (avec C. Charitos) On the isometries of ideal polyhedra, *Rendiconti del Circolo Matematico di Palermo*, volume LIV serie II, 71-80, 2005
- [50] (avec G. Théret) On Teichmüller's metric and Thurston's asymmetric metric on Teichmüller space, in : *Handbook of Teichmüller theory*, Volume I, European Mathematical Society, Zürich, 2006, pp. 111-204.
- [51] (avec J. D. McCarthy) Automorphisms of the complex of domains, preprint, Max-Planck Institut, Bonn, 2006.
- [52] (avec G. Théret) On the topology defined by Thurston's asymmetric metric, *Math. Proc. Camb. Philos. Soc.* 142, No. 3, 487-496 (2007).
- [53] Degrés de complexité en géométrie et en musique. Réflexions à partir de l'Harmonie du Monde de Kepler ; *L'Ouvert (Journal de l'Association des professeurs de mathématiques de l'Enseignement Public)*, No. 114 , p. 63-79, 2007.
- [54] (avec M. Troyanov) Weak metrics on Euclidean domains, *JP Journal of Geometry and Topology*, Volume 7, Issue 1, pp. 23-44 (2007)
- [55] Editor of the *Handbook of Teichmüller spaces*, Volume I, European Mathematical Society Publishing House, 790 pages, Zürich, 2007,
- [56] Introduction to Teichmüller Theory, Old and New, *Handbook of Teichmüller spaces*, Volume I, European Mathematical Society Publishing House, pp. 1-30, Zürich, 2007.
- [57] (avec G. Théret) Shift coordinates, stretch lines and polyhedral structures for Teichmüller space. *Monatsh. Math.* 153, No. 4, 309-346 (2008).
- [58] A rigidity theorem for the mapping class group action on the space of unmeasured foliations on a surface, *Proc. Am. Math. Soc.* 136, No. 12, 4453-4460 (2008).
- [59] Measured foliations and mapping class groups of surfaces. *Balkan J. Geom. Appl.* 13, No. 1, 93-106 (2008).
- [60] Editor of the *Handbook of Teichmüller spaces*, Volume II, European Mathematicla Society Publishing House, 900 pages, Zürich, 2009.
- [61] Introduction to Teichmüller Theory, Old and New II, *Handbook of Teichmüller spaces*, Volume II, European Mathematical Society Publishing House, pp. 1-44, Zürich, 2009.

- [62] (avec M. Troyanov) Harmonic symmetrization of convex sets and of Finsler structures, with applications to Hilbert geometry, *Expo. Math.* 27, No. 2, 109-124 (2009).
- [63] (avec M. Troyanov) Weak Finsler structures and the Funk weak metric, *Mathematical Proceedings of the Cambridge Philosophical Society*, Volume 147, Issue 02, September 2009, pp 419-437
- [64] (avec L. Liu, W. Su et G. Théret) On length spectrum metrics and weak metrics on Teichmüller spaces of surfaces with boundary, *Ann. Acad. Sci. Fenn., Math.* 35, No. 1, 255-274 (2010).
- [65] (avec L. Liu, W. Su et G. Théret) Length spectra and the Teichmüller metric for surfaces with boundary, *Monatshefte für Mathematik*, vol. 161, no 3, pp. 295-311 (2010)
- [66] (avec G. Théret) Shortening all the simple closed geodesics on surfaces with boundary, *Proc. Amer. Math. Soc.* 138 (2010), 1775-1784.
- [67] (avec M. Korkmaz) On the arc and curve complex of a surface, *Math. Proc. Camb. Philos. Soc.* 148, No. 3, 473-483 (2010).
- [68] (avec G. Théret) Some Lipschitz maps between hyperbolic surfaces with applications to Teichmüller theory, *Geometriae Dedicata*, 150, 1 (2011) 233- 247.
- [69] Lobachevsky, *Translation of the Pangeometry*, Notes and Commentary by A. Papadopoulos, *Heritage of European Mathematics*, Vol. 4, European Mathematics Publishing House, 322 pages, 2010.
- [70] On hyperbolic geometry and the history of its reception, (article en Russe, traduit par B. R. Frenkin, avec une préface de E. B. Vinberg) *Matematicheskoe prosveshchenie*, Ser. III, Vol. 14, p. 10-29, 2010.
- [71] Editor of the *Handbook of Teichmüller theory*, Volume III, European Mathematical Society Publishing House, Zürich, IRMA Lectures in Mathematics and Theoretical Physics 17, 2012, 900 pages.
- [72] (with J. D. McCarthy) Simplicial actions of mapping class groups, in : *Handbook of Teichmüller theory. Volume III*. Zürich : European Mathematical Society. IRMA Lectures in Mathematics and Theoretical Physics 17, 297-423 (2012).
- [73] Introduction to Teichmüller Theory, Old and New, III, In *handbook of Teichmüller theory* Volume III. IRMA Lectures in Mathematics and Theoretical Physics 17. European Mathematical Society, Zurich, 2012. p. 1-34.
- [74] Editor of the *Handbook of Teichmüller spaces*, Volume IV, European Mathematical Society Publishing House, pp. 1-39, Zürich, 2014, 827 pages.
- [75] Introduction to Teichmüller Theory, Old and New IV, *Handbook of Teichmüller spaces*, Volume IV, European Mathematical Society Publishing House, pp. 1-39, Zürich, 2014.
- [76] D. Alessandrini, L. Liu, A. Papadopoulos and W. Su, On local comparison between various metrics on Teichmüller spaces, *Geom. Dedicata*, Volume 157, Issue 1, pp 91-110 (2012).
- [77] L. Liu and A. Papadopoulos Some metrics on Teichmüller spaces of surfaces of infinite type, *Trans. Am. Math. Soc.* 363, No. 8, 4109-4134 (2011).
- [78] D. Alessandrini, L. Liu, A. Papadopoulos, W. Su and Z. Sun, On Fenchel-Nielsen coordinates on Teichmüller spaces of surfaces of infinite type, *Ann. Acad. Sci. Fenn., Math.* 36, No. 2, 621-659 (2011).
- [79] (avec D. Alessandrini) Ideal triangulations and coordinates for Teichmüller spaces of surfaces of infinite type, preprint, needs revision.
- [80] (with L. Liu, W. Su and G. Théret), On the classification of mapping class actions on Thurston's asymmetric metric, *Math. Proc. of the Cambridge Philosophical Society*, Volume 155, Issue 03 (2013), p. 499-515
- [81] (with W. Su) On the Finsler structure of the Teichmüller and the Lipschitz metrics, *Expositiones Mathematicae*, Elsevier, 33 (1) (2015), pp.30-47
- [82] (avec Stéphane de Gérando), Introduction à l'art topologique. Concepts mathématiques et création musicale ou "poly-art", icarEditions, 2011, p. 1-14.
- [83] D. Alessandrini, L. Liu, A. Papadopoulos and W. Su , On various Teichmüller spaces of a surface of infinite topological type. *Proc. Amer. Math. Soc.* 140 (2012), 561-574.
- [84] editor of the volume *Strasbourg Master-Class in Geometry*, IRMA Lectures in Mathematics and Theoretical Physics 18. Zürich : European Mathematical Society (EMS), 2012.
- [85] (avec N. A'Campo) Notes on hyperbolic geometry, In : *Strasbourg Master-Class in Geometry*, European Mathematical Society Publishing House, Zürich, 2012, p. 1-183.

- [86] (with Lizhen Ji) Historical development of Teichmüller Theory, *Archive for History of exact Sciences*, 67, 2 (2013) pp. 119-147.
- [87] D. Alessandrini, L. Liu, A. Papadopoulos and W. Su, The behaviour of Fenchel-Nielsen distance under a change of pants decomposition, *Communications in Geometry and Analysis*, Vol. 20, 2012, p. 369-386.
- [88] (with C. Charitos and Y. Papadoperakis) On the homeomorphisms of the space of geodesic laminations on a hyperbolic surface, *Proc. Amer. Math. Soc.* 142 (2014), 2179-2191.
- [89] (with M. Korkmaz) On the ideal triangulation graph of a punctured surface, *Annales de l'Institut Fourier* (2012). *Annales de l'Institut Fourier* 62, 4 (2012) p. 1367-1382
- [90] Editor of the Handbook of Teichmüller theory, Volume IV, European Mathematical Society Publishing House, Zürich, European Mathematical Society, 838 p., 2014.
- [91] (with A. A'Campo-Neuen, N. A'Campo and L. Ji) Commentary on Teichmüller's paper *Veränderliche Riemannsche Flächen* (Variable Riemann Surfaces), Handbook of Teichmüller theory, Volume IV, European Mathematical Society, p. 787-814, 2014.
- [92] (with G. Théret) The space of measured foliations of the hexagon, *Josai Mathematical Monographs*, Special issue for the Proceedings of an international conference in Josai University (Tokyo) 5 (2012) p. 3-17
- [93] (A. Papadopoulos and M. Troyanov, ed.) Handbook of Hilbert geometry. European Mathematical Society, IRMA Lectures in Mathematics and Theoretical Physics No. 22. 452 p., 2014.
- [94] (with W. Su) Thurston's metric on Teichmüller space and isomorphisms between Fuchsian groups. In : *Analysis and Geometry of Discrete Groups and Hyperbolic Spaces*, B48, Research Institute for Mathematical Sciences, RIMS Kokyuroku Bessatsu, p.95-110, 2014.
- [95] Hilbert's fourth problem. In : *Handbook of Hilbert geometry* (A. Papadopoulos and M. Troyanov, ed.), European Mathematical Society Publishing House, IRMA Lectures in Mathematics and Theoretical Physics, Vol. 22, p. 391-431, 2014.
- [96] A. Papadopoulos and S. Yamada, Funk and Hilbert geometries in spaces of constant curvature. *Handbook of Hilbert geometry*, European Mathematical Society Publishing House, p. 330-354, 2014.
- [97] (with M. Troyanov) From Funk to Hilbert geometry. *Handbook of Hilbert geometry* (A. Papadopoulos and M. Troyanov, ed.), European Mathematical Society Publishing House, IRMA Lectures in Mathematics and Theoretical Physics, Vol. 22, p. 33-68., 2014.
- [98] (with M. Troyanov) Weak Minkowski Spaces. *Handbook of Hilbert geometry* (A. Papadopoulos and M. Troyanov, ed.), European Mathematical Society Publishing House, IRMA Lectures in Mathematics and Theoretical Physics, Vol. 22, p. 11-32, 2014.
- [99] (with I. Kim) Convex real projective structures and Hilbert metrics. *Handbook of Hilbert Geometry* (A. Papadopoulos and M. Troyanov, ed.), European Mathematical Society Publishing House, IRMA Lectures in Mathematics and Theoretical Physics, Vol. 22, p. 307-338, 2014.
- [100] (éditeur, avec Lizhen Ji) The Erlangen program and its impact on mathematics and physics, European Mathematical Society Publishing House, 2015.
- [101] La théorie des parallèles de Johann Heinrich Lambert, critical edition with French translation and mathematical and historical commentary, ed. Blanchard, coll. Sciences dans l'Histoire, Paris, 214 p., 2014.
- [102] (with R. Rashed) On Menelaus' *Spherics* III.5 in Arabic mathematics, I : Ibn 'Irāq, *Arabic Science and Philosophy* (Cambridge University Press), vol. 24 (2014), pp. 1-68.
- [103] (with R. Rashed) On Menelaus' *Spherics* III.5 in Arabic mathematics, II : Naṣīr al-Dīn al-Ṭūsī and Ibn Abī Jarrāda, *Arabic Science and Philosophy* (Cambridge University Press) vol. 25 (2015), pp. 1-32.
- [104] On Lobachevsky's trigonometric formulae, *Gaṇita Bhārātī*, (Indian Mathematics) the Bulletin of the Indian Society for History of Mathematics, 34 (1-2), p.203-224, 2012.
- [105] (with S. Yamada) The Funk and Hilbert geometries for spaces of constant curvature, *Monatshefte für Mathematik* 172, 1 (2013) p. 97-120.
- [106] On the works of Euler and his followers on spherical geometry, *Gaṇita Bhārātī* (Indian Mathematics), the Bulletin of the Indian Society for History of Mathematics, 36 No. 1-2, p. 237-292, 2014.
- [107] (with G. Théret) Hyperbolic geometry in the work of J. H. Lambert, *Gaṇita Bhārātī* (Indian Mathematics), the Bulletin of the Indian Society for History of Mathematics, Vol. 36, No. 2, p. 129-155, (2014).

- [108] Metric Spaces, Convexity and Nonpositive Curvature (Second edition). European Mathematical Society. European Mathematical Society, 320 p., 2014.
- [109] Euler, la géométrie sphérique et le calcul des variations. In : Leonhard Euler : Mathématicien, physicien et théoricien de la musique (dir. X. Hascher et A. Papadopoulos), CNRS Editions, p. 349-392, 2015.
- [110] Euler et les débuts de la topologie. Leonhard Euler : Mathématicien, physicien et théoricien de la musique (dir. X. Hascher et A. Papadopoulos), CNRS Editions, p. 321-347, 2015.
- [111] Leonhard Euler : Quelques points de repère . Leonhard Euler : Mathématicien, physicien et théoricien de la musique (dir. X. Hascher et A. Papadopoulos), CNRS Editions, p. 55-111, 2015,
- [112] A. Papadopoulos, Essay-Review of *Angles et grandeur. D'Euclide à Kamāl al-Dīn al-Fārisī by Roshdi Rashed*, *Estimatio*, 12 (2015) 141–151
- [113] (editor, with L. Ji and S. T. Yau) Handbook of Group actions, Volume I, Higher Education Press and International Press, Vol. 31, 2015.
- [114] (editor, with L. Ji and S. T. Yau) Handbook of Group actions, Volume II, Higher Education Press and International Press, Vol. 32, 2015.
- [115] Actions of mapping class groups. In : Handbook of Group Actions, Vol. I (ed. L. Ji, A. Papadopoulos and S.-T. Yau), International Press and Higher Education Press, Advanced Lectures in Mathematics, Vol. 31, p. 189-248, 2015.
- [116] Mathematics and group theory in music. In : Handbook of Group Actions, Vol. II (ed. L. Ji, A. Papadopoulos and S.-T. Yau), International Press and Higher Education Press, Advanced Lectures in Mathematics, Vol. 32, p. 525-572, 2015.
- [117] Editor of the Handbook of Teichmüller theory, Volume V, European Mathematical Society Publishing House, Zürich, 2016, 596 pages.
- [118] (with W. Su) On hyperbolic analogues of some classical theorems in spherical geometry. In : Hyperbolic geometry and geometric group theory (ed. K. Fujiwara, K. Ohshika and S. Kojima), Advanced Studies of Pure Mathematics, No. 73, Mathematical Society of Japan, Tokyo, 2017, p. 225-253
- [119] (with N. A'Campo and L. Ji) On the early history of moduli and Teichmüller spaces, In : Lipman Bers, a life in Mathematics, ed. L. Keen , I. Kra and R. Rodriguez, American Mathematical Society, 2015, p. 175-262.
- [120] (with V. Alberge and W. Su) A commentary on Teichmüller's paper *Extremale quasikonforme Abbildungen und quadratische Differentiale* (Extremal quasiconformal mappings and quadratic differentials) Handbook of Teichmüller theory, Volume V, European Mathematical Society, Zurich 2016, p. 485-531.
- [121] (with N. A'Campo) A Commentary on Teichmüller's paper *Über Extremalprobleme der konformen Geometrie (On extremal problems in conformal geometry)*, Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, p. 596-600.
- [122] V. alberge et A. Papadopoulos et N. A'Campo, A Commentary on Teichmüller's paper *Vollständige Lösung einer Extremalaufgabe der quasikonformen Abbildung (Complete solution of an extremal problem of the quasiconformal mapping)*, In : Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, p. 559-565.
- [123] (with A. A'Campo-Neuen, N. A'Campo and V. Alberge) A Commentary on Teichmüller's paper *Bestimmung der extremalen quasikonformen Abbildungen bei geschlossenen orientierten Riemannschen Flächen* (Determination of extremal quasiconformal mappings of closed oriented Riemann surfaces) Handbook of Teichmüller theory, Volume V, European Mathematical Society, Zurich 2016, p. 570-580.
- [124] Editor of the Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, 638 p.
- [125] Introduction to Teichmüller theory, Old and New VI. In : Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, p. 1-29.
- [126] (with N. A'Campo and L. Ji) On Grothendieck's construction of Teichmüller space, Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, p. 35-70.
- [127] (with N. A'Campo and L. Ji) Actions of the absolute Galois group, Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, p. 397-435.
- [128] (with N. A'Campo and L. Ji) On Grothendieck's tame topology, Handbook of Teichmüller theory, Volume VI, European Mathematical Society, Zurich 2016, p. 521-532.

- [129] Mathematics and music, From the Greeks to Euler, ed. X. Hascher and A Papadopoulos, ed. Hermann, Paris, Book to appear in 2018.
- [130] From Riemann to differential geometry and relativity (L. Ji, A. Papadopoulos and S. Yamada, ed.) Berlin : Springer, 647 p., 2017.
- [131] A. Papadopoulos, Looking backward : From Euler to Riemann, In : From Riemann to differential geometry and relativity (L. Ji, A. Papadopoulos and S. Yamada, ed.) Berlin : Springer, pp. 1–93.
- [132] A. Papadopoulos, Physics in Riemann’s mathematical papers, In : From Riemann to differential geometry and relativity (L. Ji, A. Papadopoulos and S. Yamada, ed.) Berlin : Springer, pp. 151–207.
- [133] A. Papadopoulos, Cauchy and Puiseux : Two precursors of Riemann, In : From Riemann to differential geometry and relativity (L. Ji, A. Papadopoulos and S. Yamada, ed.) Berlin : Springer, pp. 209–235.
- [134] A. Papadopoulos, Riemann surfaces : reception by the French school, In : From Riemann to differential geometry and relativity (L. Ji, A. Papadopoulos and S. Yamada, ed.) Berlin : Springer, pp. 237–291.
- [135] With Roshdi Rashed, *Menelaus’ Spherics : Early Translation and al-Māhānī/ al-Harawī’s Version* (Critical edition of Menelaus’ *Spherics* from the Arabic manuscripts, with historical and mathematical commentaries), De Gruyter, Series : Scientia Graeco-Arabica, 21, 2017, 890 pages.
- [136] A. Papadopoulos, On the legacy of Ibn al-Haytham : An exposition based on the work of Roshdi Rashed, *Gaṇita Bhārātī* (Indian Mathematics), the Bulletin of the Indian Society for History of Mathematics, Vol. 36 No. 2, p. 157-176, 2014.
- [137] (avec R. Caddeo, X. Hascher, P. Jehel et H. Papadopoulos) Leonhard Euler, *Écrits sur la musique* (Édition critique, avec commentaires musicaux et mathématiques), 2 volumes, 2015, Hermann, Paris.
- [138] Topics in Teichmüller spaces and mapping class group, CTQM Master-Class series, European Mathematical Society Publishing House, 150 pages, monographie acceptée, à paraître en 2018.
- [139] Co-editor X. Hascher , Athanase Papadopoulos. Leonhard Euler : Mathématicien, physicien et théoricien de la musique. Paris, France. CNRS Editions, 516 p., 2015. (J’ai 3 articles pour un total de 150 pages dans ce livre.)
- [140] N. A’Campo and A. Papadopoulos, On Klein’s *So-called Non-Euclidean geometry*, In : Sophus Lie and Felix Klein : The Erlangen program and its impact in mathematics and in physics. European Mathematical Society Publishing House. Vol. 23, 2015, p. 91-136.
- [141] N. A’Campo and A. Papadopoulos, On transitional geometries, In : Sophus Lie and Felix Klein : The Erlangen program and its impact in mathematics and in physics. European Mathematical Society Publishing House. Vol. 23, 2015, p. 217-235.
- [142] A. Papadopoulos and S. Yamada, On the projective geometry of constant curvature spaces, In : The Erlangen program and its impact in mathematics and in physics. European Mathematical Society Publishing House. Vol. 23, p. 237-245, 2015.
- [143] Eighteen essays on non-Euclidean geometry, ed. V. Alberge and A. Papadopoulos, European Mathematical Society, 2018.
- [144] N. A’Campo and A. Papadopoulos, Area and volume in non-Euclidean geometry, In : Eighteen essays on non-Euclidean geometry, ed. V. Alberge and A. Papadopoulos, European Mathematical Society, 2018
- [145] A. Papadopoulos, W. Su, Thurston’s metric on Teichmüller space and the translation lengths of mapping classes, *Annales Academiæ Scientiarum Fennicæ Mathematica Volumen 41*, 2016, 867–879
- [146] A. Papadopoulos, S. Yamada, Deforming Hexagons and the arc and the Thurston metric on Teichmüller space, *Monatshefte für Mathematik* 172(1) 97-120 (2017)
- [147] A. Papadopoulos, W. Su, Inversions in hyperbolic geometry, en préparation.
- [148] Selected Works of Herbert Busemann, with commentaries (A. Papadopoulos, ed.), 2 volumes, ca. 950 pages each, Springer-Verlag, 2017.
- [149] A. Papadopoulos and M. Troyanov, On three early papers by Herbert Busemann on the foundations of geometry, In : Selected Works of Herbert Busemann, Volume I, p. 15–28. Springer-Verlag, 2017.
- [150] A. A’Campo and A. Papadopoulos, Busemann’s early work with Feller on curvature properties of convex surfaces, In : Selected Works of Herbert Busemann, p. 67–88, Springer-Verlag, 2017.

- [151] A. Papadopoulos, Busemann's work on Hilbert's Fourth Problem on the characterization of Minkowski spaces, In : Selected Works of Herbert Busemann, Volume II, p. 145–159. Springer-Verlag, 2017.
- [152] A. Papadopoulos, Busemann's work on Hilbert geometry, In Selected Works of Herbert Busemann, Volume II, p. 123–144 . Springer-Verlag, 2017.
- [153] A. Papadopoulos, Herbert Busemann (1905–1994) – a biography, In Selected Works of Herbert Busemann, Volume I, p. 3–14. Springer-Verlag, 2017.
- [154] A. Papadopoulos and S. Yamada, Busemann's metric theory of timelike spaces, In Selected Works of Herbert Busemann, Volume I, p. 115–131 . Springer-Verlag, 2017.
- [155] A. Papadopoulos, Chronogeometry, In Selected Works of Herbert Busemann, Vol. I, p. 133–141, Springer-Verlag, 2017.
- [156] (editor, with L. Ji and S. T. Yau) Handbook of Group actions, Volume III, Higher Education Press and International Press, 2018.
- [157] (editor, with L. Ji and S. T. Yau) Handbook of Group actions, Volume IV, Higher Education Press and International Press, 2018.
- [158] (editor, with L. Ji and S. T. Yau) Handbook of Group actions, Volume V, Higher Education Press and International Press, Book to appear in 2019.
- [159] The complete musical writings of Christiaan Huygens translated into English with commentaries (R. Caddeo, X. Hascher, F. Jedrzejewski, A. Papadopoulos, Editors), 2 volumes, to appear in 2018, Hermann, Paris.
- [160] D. Alessandrini, L. Liu, A. Papadopoulos and W. Su, On the inclusion of the quasiconformal Teichmüller space into the length-spectrum Teichmüller space, Monatshefte für Mathematik, 179 (2016) No. 2, 165–189.
- [161] With R.C. Penner, Hyperbolic metrics, measured foliations and pants decompositions for non-orientable surfaces, Asian Journal of Mathematics, Vol. 20, No. 1 (January 2016) pp. 157–182.
- [162] Geometry in History, edited by S. G. Dani and A. Papadopoulos, to appear, Springer Verlag, 2018.
- [163] A. Papadopoulos, Topology in biology, from Aristotle to René Thom, In : Geometry in History, edited by S. G. Dani and A. Papadopoulos, Springer Verlag, 2018.
- [164] A. A'Campo-Neuen and A. Papadopoulos, Curvature before Gauss In : Geometry in History, edited by S. G. Dani and A. Papadopoulos, Springer Verlag, 2018.
- [165] A. Papadopoulos, Euler and Chebyshev : From the sphere to the plane and backwards, Proceedings in Cybernetics (A volume dedicated to the jubilee of Academician Vladimir Betelin), 2 (2016) p. 55–69.
- [166] A. Papadopoulos, Nicolas Auguste Tissot : A link between cartography and quasiconformal theory, Archive for History of exact Sciences, Volume 71, Issue 4, pp. 319–336, 2017.
- [167] A. Papadopoulos, Quasiconformal mappings, from Ptolemy's geography to the work of Teichmüller, to appear in : *Uniformization, Riemann-Hilbert Correspondence, Calabi-Yau Manifolds, and Picard-Fuchs Equations* (ed. L. Ji and S.-T. Yau), International Press and Higher Education Press. To appear in 2017, 65p.
- [168] D. Alessandrini, L. Liu, A. Papadopoulos and W. Su, The horofunction compactification of Teichmüller spaces of surfaces with boundary. Topology Appl. 208 (2016), 160–191.
- [169] A. Papadopoulos, Roshdi Rashed, Historian of Greek and Arabic mathematics, *Ganita Bhārātī* (Indian Mathematics), the Bulletin of the Indian Society for History of Mathematics, Vol. 38, No. 2 (2016), p. 1–26.
- [170] V. Nestoridis and A. Papadopoulos, Arc length as a global conformal parameter for analytic curves, J. Math. Anal. Appl. 445 (2017) 1505–1515.
- [171] P. Gauthier, V. Nestoridis and A. Papadopoulos, Spherical arc-length as a global conformal parameter for analytic curves in the Riemann sphere, J. Math. Anal. Appl., Volume 455, Issue 1, 1 November 2017, Pages 742–749
- [172] A. Papadopoulos (ed.) René Thom, Portait mathématique et philosophique, livre à paraître, CNRS Éditions, 2018, 385 pages.
- [173] A. Papadopoulos, René Thom : Des mathématiques, à la biologie et à la philosophie, In : René Thom, Portait mathématique et philosophique, CNRS Éditions, 2018, 87 pages.
- [174] A. Papadopoulos, Thom et Aristote : Penser la forme et la nature, In : René Thom, Portait mathématique et philosophique, CNRS Éditions, 2018, 45 pages.

- [175] A. Papadopoulos, Logos et analogie : Notes sur deux thèmes récurrents dans la pensée de Thom In : René Thom, Portait mathématique et philosophique, CNRS Éditions, 2018, 35 pages.
- [176] Lizhen Ji, A. Papadopoulos, W. Su, editors, Teichmüller theory Grothendieck's dessins d'enfants, International Press and Higher Education Press, 2018, to appear.
- [177] V. Alberge, Renzo Caddeo and A. Papadopoulos, editors, Spherical geometry in the Eighteenth Century, with commentaries. Book in preparation.
- [178] A. Papadopoulos and S. Yamada, Timelike Hilbert and Funk geometries, Preprint, 2016, New version, 2017, submitted.
- [179] A. Papadopoulos, Book Review of : Teichmüller theory and applications to geometry, topology, and dynamics Volume 1 : Teichmüller theory/Volume 2 : Surface homeomorphisms and rational functions, by John H. Hubbard. Bulletin of the AMS, 2018 (in press), 12 pages.
- [180] A. Papadopoulos, Herbert Busemann, Notices of the American Mathematical Society, 2018, Vol. 65, No. 3, March 2018, p. 341–343.
- [181] V. Matveev, A. Papadopoulos, H.-B. Rademacher, and S. V. Sabau, Editors' foreword for the special issue "Finsler geometry, new methods and perspectives". Eur. J. Math. 3 (2017), no. 4, 763–766.
- [182] A. Papadopoulos, Three theorems of Menelaus, to appear in the American Mathematical Monthly, 2019.
- [183] Moduli spaces, Collective book edited by L. Ji, J. Jost and A. Papadopoulos, International Press and Higher Education Press, 2019.
- [184] Handbook of Teichmüller theory, ed. A. Papadopoulos, Volume VII, European Mathematical Society, Zürich, 2019.
- [185] K. Ohshika and A. Papadopoulos, Homéomorphismes et nombre d'intersection, preprint (available on arxiv), 2018, submitted.
- [186] K. Ohshika and A. Papadopoulos, Bijections of geodesic lamination space preserving left Hausdorff convergence preprint (available on arxiv), 2018, submitted.