

Curriculum Vitae



A. Muhammed Uludağ
Galatasaray University
Mathematics Department
Çırağan Cad. No.36
34357 Istanbul, Turkey.
e-mail: muludagATgsu.edu.tr
g-mail: muhammed.uludag

EDUCATION

- Institut Joseph Fourier, Grenoble, France. 1997–2000, Ph. D. Mathematics
- Institut Joseph Fourier, Grenoble, France. 1996–1997, DEA Mathematics
- Bilkent University, Ankara, Turkey, 1994–1996, M.S. Mathematics
- Bosphorus University, Istanbul, Turkey, 1989–1994, B.S. Mathematics
- Ankara Fen Lisesi, Ankara, Turkey, 1986–1989, High School Diploma

ACADEMIC POSITIONS

- 2010– : Professor, Galatasaray Un. Mathematics Dep., Istanbul.
- 2006–10: Associate Professor, Galatasaray Un. Mathematics Dep., Istanbul.
- 2004–06: Associate Professor, Galatasaray Un. Computer Engineering Dep. Istanbul.
- 2002–04: Assistant Professor, Galatasaray Un. Istanbul.
- 2001–02: Research Assistant, Galatasaray Un. Istanbul.
- 1997–98: Teaching assistant, Fourier Institute, Grenoble.
- 1994–96: Teaching/Research assistant, Bilkent Un. Ankara.

ADMINISTRATIVE POSITIONS

- 2012– : Member of the University Senate, Galatasaray University, Istanbul, Turkey
- 2010– : Chair, Galatasaray University, Mathematics Department, Istanbul, Turkey
- 2008– : Member of Executive Board, Galatasaray University, Faculty of Sciences & Lettres
- 2006–09: Chair, Galatasaray University, Mathematics Department, Istanbul, Turkey
- 2003–06: Member of Executive Board, Graduate Institute for Sciences Galatasaray University, Istanbul, Turkey
- 2003–06: Member of Executive Board, Faculty of Engineering, Galatasaray University, Istanbul, Turkey

SYNERGISTIC ACTIVITIES

- 2013–14: Member, Advisory Committee of Tübitak Basic Sciences Support Group
- 2014– : Columnist, Matematik Dünyası (Mathematics World, the journal of the Turkish Mathematical Society)
- 2016– : Co-director, “Grigore Moisil” Romanian Turkish Joint Laboratory Of Mathematical Research, Constanza, Romania
- 2018– : Advisory committee member, Tübitak Bilim-Teknik Journal
- 2017– : YÖK TEBİP class lecturer

RESEARCH INTERESTS

- Modular group, $\mathrm{PGL}(2, \mathbb{Q})$, Continued fractions and associated discrete dynamical systems and their zeta functions, Gauss-Kuzmin theorem, Transfer operators, Continued fractions.
- Systems of subgroups in the modular group, Embedded graphs on surfaces and related arithmeticity problems, Thompson groups, Binary quadratic forms.
- Teichmüller theory, Sphere triangulations, flat geometries, Euclidean structures on the sphere, Hypergeometry, Deligne-Mostow theory, Real and Complex Hyperbolic Geometry.
- Branched coverings, Orbifolds, Ball-quotients, Orbifolds uniformized by K3 surfaces, Calabi-Yau Orbifolds.
- Topology of hypersurface complements in projective manifolds, Fundamental groups of plane curve complements.
- Geometric Galois representations, Arithmetic fundamental groups, Grothendieck-Teichmüller theory, Algebraic fundamental groups, Fundamental group of the thrice punctured line, Solenoids,

THESIS WRITTEN

- *On Possible Deterioration of Smoothness under the Operation of Convolution.* (M.A. Advisor: I. V. Ostrovskii)
- *On the Existence of Green Function and Bounded Harmonic Functions on Galois Covers of Riemann Surfaces.* (D.E.A. Advisor: M. Zaidenberg.)
- *On the Fundamental Groups of a Class of Rational Cuspidal Plane Curves.* (Ph.D. Advisor: Prof. M. Zaidenberg.)

AWARDS & GRANTS

- 2018–19: Research Fund of Galatasaray University:
Research project
“A common framework for the mapping class group and the Thompson group”
- 2016–19: Turkish Scientific and Technological Research Council (TUBITAK):
1001 Research Grant “CONTFRAC: Continued fraction maps”
- 2016–17: Research Fund of Galatasaray University:
Research project “Measures on the boundary of the Farey tree”
- 2015–16: Research Fund of Galatasaray University:
Research project “Ruelle zeta and other zeta functions associated to a family of dynamical continued fraction maps”
- 2015–18: (Assistant Researcher) Turkish Scientific and Technological Research Council (TUBITAK): 1001 Research Grant “Generalized Çarks and Binary Quadratic Forms”
- 2013–16: (Advising Scientist) Turkish Scientific and Technological Research Council (TUBITAK): 1001 Research Grant “Info-Mod:”
- 2014–15: Research Fund of Galatasaray University:
Research project “Subgroups of the general linear group over the rationals”
- 2012–14: Research Fund of Galatasaray University:
Research project “A visual study of the modular group”
- 2011–14: Turkish Scientific and Technological Research Council (TUBITAK):
1001 Research Grant “GALACT: Hypergeometric Galois Actions”
- 2010 : The Scientific and Technological Research Council of Turkey (TUBITAK)
TWAS Incentive Award for young scientist.
- 2010 : Turkish Academy of Sciences (TUBA) award
for the translation of “Proofs from the Book”.
- 2009 - : Research Fund of Galatasaray University:
Research project “Modular Group, Ribbons and Solenoids”
- 2006–09: Turkish Academy of Sciences (TUBA):
Outstanding Young Scientist Grant
- 2005–09: Turkish Scientific and Technological Research Council (TUBITAK):
Kariyer grant “Complex Hyperbolic Geometry”
- 2007–09: Research Fund of Galatasaray University:
Research project “Galois actions on some arithmetic stacks”

- 2006–07: Research Fund of Galatasaray University:
Research project “Orbifolds covered by Calabi-Yau manifolds”
- 2001–16: Various visiting grants provided by hosting research institutions, as below.

SCIENTIFIC VISITS

- Institut De Recherche Mathématique Avancée, (Strasbourg, France), January 2013, June 2014, September 2015, January 2016, June 2018
- Max Planck Insitute (Bonn, Germany), January 2012
- Max Planck Insitute (Bonn, Germany), September 2011
- Lille University (Lille, France), January-February 2010
- Humboldt Univesity (Berlin, Germany), August 2009
- Lille University (Lille, France), January 2009
- Kyushu University (Fukuoka, Japan), April 2008
- Max Planck Insitute (Bonn, Germany), August-September 2007
- I.C.T.P. (Trieste, Italy), July 2007
- Humboldt Univesity (Berlin, Germany), February 2007
- I.H.E.S. (Bures Sur Yvette, France), August 2006
- I.H.E.S. (Bures Sur Yvette, France), September 2005
- Max Planck Insitute (Bonn, Germany), August-October 2004
- Max Planck Insitute (Bonn, Germany), August-September 2003
- Emmy Noether Institute (Tel-Aviv, Israel), March-May 2001.

GRADUATE AND POST-GRADUATE STUDENTS

- Moctar Traore, Ph.D. thesis, Senagal (2017–)
- Hamdide Kuru, on-going master thesis, GSU (2018–)
- Esra Ünal, on-going Ph.D. thesis, Bolu Izzet Baysal University (2016–)
- Buket Eren, on-going master thesis, GSU (2016–)
- Tuncay Abacık, on-going master thesis, ITICU (2014–)
- İsmail Sağlam, Ph.D. thesis, Koç Un. (2011–15) *Triangulations of sphere after Thurston* (with S. Ünver) – now Assistant Prof. in Adana Un. of Science and Technology.
- Fırat Yaşar, master thesis (2014), Koç Un. *Grothendieck's Dessin Theory* (with S. Ünver) – now Ph.D. student in IRMA, Strasbourg
- Merve Durmuş, master thesis (2012), YTU, *Orbit Graphs and Binary Quadratic Forms*
- Eugene Ha, Post-doctoral visitor (2011) – now editor at Springer NY
- Neşe Yaman, master thesis (2011), Istanbul Un. *Continuity of Convolution on L_p -Spaces*
- Ayberk Zeytin, METU, Ph.D. (2011) (with Hürşit Önsiper) *Algebraic Curves, Hermitian Lattices and Hypergeometric Function*, Post-doctoral visitor (2012) – now Assistant Prof. at Galatasaray Un.
- (with B. Akyar Moeller) Celal Cem Sarioğlu, Izmir 9 Eylül Un. Ph.D. (2009) *Combinatorics and topology of quadric-line arrangements* – now Assistant Prof. at 9 Eylül Un. Izmir.
- Hakan Ayral, master's degree, GSU (2008) *Halting prediction on busy beaver type Turing machines based on information theory* – now post-doc visitor at GSU Istanbul
- Duygu Irmak, master's degree, YTU (2008) *On finite subgroups of projective linear groups*

TEACHING

Alongside with GSU, various external courses delivered at Istanbul Bilgi University, Istanbul University, Mimar Sinan University, Yeditepe University, Lefke European University and the Nesin Mathematics Village.

Undergraduate.

- Calculus (Lefke European University, Northern Cyprus)
- Probability (GSU Computer Engineering, Mathematics, Istanbul Bilgi University)
- Numerical Analysis (GSU Computer Engineering)
- Cryptography (GSU Computer Engineering)
- Discrete Mathematics (GSU Computer Engineering)
- Automata and Theory of Languages (GSU Computer Engineering)
- Introduction to Mathematical Logic and Set Theory (Yeditepe University, Istanbul)
- Introduction to Mathematical Structures (Yeditepe University, Istanbul)
- Linear Algebra (Yeditepe University, Istanbul)
- Complex Analysis (GSU, Istanbul Bilgi University)
- Basic Number Theory (GSU)
- Functional Analysis (GSU)
- Abstract Algebra (GSU)
- Ergodic Theory (GSU)
- Analysis I-II (GSU, TEBİP)

Graduate.

- Real Analysis I-II (Mimar Sinan University)
- Complexity and Theory of Languages (GSU Computer Engineering)
- Discrete Mathematics (GSU)
- Academic Writing Skills (GSU)
- Modular Group (GSU, Nesin Mathematics Village)
- Theory of Computation (GSU Computer Engineering)

ADVISING SENIOR PROJECTS.

p-adic numbers, Markov's conjecture, Gauss-Kuzmin theorem, Geometry of Numbers, Pell Theorem, Conways games, Sturmian words, continued fractions, Dynamics of continued fraction maps, Fibonacci numbers, Random walk, Minkowski question mark function, boundaries of trees, etc..

EDITOR/REVIEWER

- MathSciNet
- ZentralBlatt
- Matematik Dünyası

MEMBERSHIP

- Turkish Mathematical Society
- American Mathematical Society
- European Mathematical Society
- Société Mathématique Française

PERSONAL

Turkish Nationality, fluent in Turkish, English and in French, beginner in German.

SCIENTIFIC ORGANIZATIONS

- (Co-Organiser) Journees Arithmetiques, Istanbul, 1-5 July 2019.
- (Member of Scientific Committe & lecturer)
CIMPA School Geometry, groups and dynamics, 2019.
Indian Institute of Science Education and Research, Mohali
- (Member of Scientific Committe) 3rd International Conference on Advances in Natural and Applied Sciences, 2018, Antalya
- (Member of Scientific Committe) The Second Romanian-Turkish Mathematics Colloquium,
Galatasaray University, 2017, Istanbul.
- (Member of Scientific Committee)
“Antalya Algebra Days”, Izmir, May 2017
- (Member of Scientific Committee)
Arithmetic and Low Dimensional Hyperbolic Spaces
27 June - 1 July 2016, Galatasaray University, Istanbul.
- (Co-Organizer) The First Romanian-Turkish Mathematics Colloquium,
Ovidius University, October 2015, Constanza, Romania.
- (Co-Organiser) ANR Conference “Finsler Geometry and Applications”,
Samos, September 2014.
- (Member of Scientific Committee)
GSU/CIMPA/TUBITAK Summer School “Algebraic Geometry and Number Theory”,
Galatasaray University, Istanbul, June 2014.
- (Co-Organiser, Member of Scientific Committee)
ANR/GSU School on Finsler Geometry and Applications (2014)
- (Member of Scientific Committee) Geometry Conference,
Galatasaray University, Istanbul, March 2014
- (Member of Scientific Committee) Turkish-Japanese Geometry Meeting,
Galatasaray University, Istanbul, November 2013
- (Member of Scientific Committee) ANR Conference “Finsler Geometry”,
Samos, June 2013

- (Member of Scientific Committee) GSU Conference
“Istanbul Workshop in Teichmüller Theory”,
Galatasaray University, Istanbul, October 2012
- IMBM-GSU Conference “Geometry and Arithmetic around Teichmüller Theory”,
Galatasaray University, Istanbul, November 2011
- (Member of Scientific Committee) “Symposium of the Turkish Mathematical Society”,
Uludag University, Bursa, September 2011
- (Member of Scientific Committee)
“Antalya Algebra Days”, Antalya, May 2011
- (Member of Scientific Committee) “Izmir Algebraic Geometric Topology Days”,
9 Eylül University, Izmir, January 2011
- CIMPA - TUBITAK Summer School
“Commutative Algebra and Applications to Combinatorics and Algebraic Geometry”
Galatasaray University and Feza Gürsey Institute, September 2010, Istanbul
- (Member of Scientific Committee) “Izmir Algebraic Geometric Topology Days”,
9 Eylül University, Izmir, January 2009
- GTEM Summer School “Geometry and Arithmetic around Galois Theory”,
Galatasaray University, Istanbul, June 2009
- GTEM Summer School “Geometry and Arithmetics of Moduli Spaces of Coverings”,
Galatasaray University, Istanbul, June 2008
- CIMPA Summer School “Arrangements and Local Systems and Singularities”,
Galatasaray University, Istanbul, June 2007
- EMS Summer “School Arithmetic and Geometry Around Quantization”,
Galatasaray University, Istanbul, June 2006
- CIMPA Summer School “Arithmetic and Geometry Around Hypergeometric Functions”,
Galatasaray University, Istanbul, June 13-25 (2005)

Publications and Invited Talks

A. Muhammed Uludağ,
Galatasaray University,
Mathematics Department

PUBLICATIONS.

Books

- (with Hakan Ayrar) Proje Rehberi, Galatasaray University Publications (2015). (A guide on project proposals for Tubitak grants) Also available as an e-book on Google Play. Apple Store version to appear.
- (Under preparation, with İrem Portakal) *Modüler Grup* (A book project in Turkish on the modular group, estimated to appear in 2015)
- (Translator) Proofs from the Book, Aigner, Ziegler (Kitap'tan Deliller), Bilgi University Publications, appeared March 2009

Editorial work

- (Co-editor) Arithmetic and Geometry Around Galois Theory GTEM Summer School, Galatasaray University, Istanbul, 2009 Progress in Mathematics, Birkhauser P. Debes, M. Emsalem, M. Romagny, A. M. Uludağ (Eds) (2012)
- (Co-editor) Arrangements & Local Systems and Singularities, *Lecture Notes of the CIMP Summer School held at Galatasaray University (Istanbul)* Edited by F. ElZein, A. Suci, M. Tosun, A.M. Uludağ, S. Yuzvinsky, Birkhäuser-Progress in Mathematics **Vol. 283** (2010)
- (Editor) Arithmetic and Geometry Around Hypergeometric Functions, *Lecture Notes of the CIMP Summer School held at Galatasaray University (Istanbul)* Edited by R.P. Holzapfel, A.M. Uludağ, M. Yoshida, Birkhäuser-Progress in Mathematics, Vol. 260 (2007)

Research Papers

- *A subtle symmetry of Lebesgue's measure*, (with Hakan Ayrar, Journal of Theoretical Probability, 2017).
- (with A. Zeytin and H. Ayrar) *InfoMod: A visual and computational approach to Gauss binary quadratic forms*, submitted, 2016.
- *Dynamics of a family of continued fraction maps*, (with Hakan Ayrar, Dynamical Systems: an international journal, 2017).

- *An involution of reals, discontinuous on rationals and whose derivative vanish almost everywhere.* This is the last section of “Jimm, a fundamental involution” which could not be published because of its length and notational issues (with Hakan Ayrar, 2016).
- *On the Involution of the Real Line Induced by Dyer’s Outer Automorphism of $\mathrm{PGL}(2, \mathbb{Z})$.* This is the first section of “Jimm, a fundamental involution” which could not be published because of its length and notational issues (with Hakan Ayrar), submitted, 2016.
- *Fundamental Groups of a Class of Rational Cuspidal Plane Curves*, International Journal of Mathematics, (2016).
- *Hypergeometric Galois actions* (with İsmail Sağlam), Handbook of Teichmüller Theory (2016).
- *A panorama of the fundamental group of the modular curve* (with Ayberk Zeytin), Handbook of Teichmüller Theory (2016)
- (with H. Ayrar), *Jimm, a fundamental involution*, arxiv preprint (2015).
- (Under preparation, with Ayberk Zeytin) *The Çark Groupoid and Thompson’s Groups*
- *Actions of the Modular Group*, (with an appendix by Hakan Ayrar) appeared in: Handbook of Group Actions, Athanase Papadopoulos, Lizhen Ji and S.-T. Yau (editors) International Press, 2015.
- (with Ayberk Zeytin and Merve Durmuş) *Binary Quadratic Forms as Dessins*, to appear in: Journal de la théorie des nombres de Bordeaux (2016)
- (with Celal Cem Sarioğlu) *On finite branched uniformizations of the projective plane*, International Journal of Mathematics (2013)
- (with Ayberk Zeytin) *Quadrangulations of sphere, ball-quotients and Belyi morphisms*, Mathematische Nachrichten (2014)
- *Smooth finite abelian uniformizations of projective spaces and Calabi-Yau orbifolds*, Manuscripta Mathematica, Vol. 124 (2007) No.1 31-44
- *Orbifolds and their uniformization* in: Arithmetic and Geometry Around Hypergeometric Functions, Lecture Notes of the CIMPA Summer School held at Galatasaray University (Istanbul) Edited by R.P. Holzapfel, A.M. Uludag, M. Yoshida, Birkhäuser-Progress in Mathematics, Vol. 260 (2007)
- *Galois Coverings of the plane by K3 surfaces*, Kyushu Journal of Mathematics Vol. 59 (2005), No. 2 393-419
- *Covering relations between ball-quotient orbifolds*, Mathematische Annalen **308**, No.3 (2004) 503-523.

- *On Branched Galois Coverings $(\mathbf{B}_1)^n \rightarrow \mathbb{P}^n$* , International Journal of Mathematics **4** 10 (2003), 1025-1037.
- *Fundamental groups of some quadric-line arrangements*, (with Amram, M. and Teicher, M.) Topology and its Applications 130, no. 2 (2003), 159-173.
- *More Zariski pairs and finite fundamental groups of plane curve complements* Manuscripta Math. 106 **3** 271-277 (2001)
- *Existence of Green function and bounded harmonic functions on Galois covers of Riemannian Manifolds*, Osaka J. Math. **38**, no 2 (2001).
- *On possible deterioration of smoothness under the operation of convolution*, Journal of Mathematical Analysis and Applications, **227**, 335-358 (1998).
- *On possible deterioration of smoothness under the operation of convolution*, C.R. Acad. Sci. Paris, **t.322**, série I, p. 173-178, (1996).

LECTURES AND INVITED TALKS.

- (Invited Speaker) 3rd International Conference on Advances in Natural and Applied Sciences, 2018, Antalya
- New Trends in Teichmüller Theory and Mapping Class Groups, Oberwolfach (invited participant, 2-8 September 2018)
- Rencontre entre mathématiciens et physiciens théoriciens, IRMA, Strasbourg (invited speaker, 7-9 Juin 2018)
- Silk Road Geometry Conference, Gökova Geometry Conference, (invited speaker, Jun 04 - Jun 08, 2018)
- Branched coverings, degenerations and related topics, Hiroshima (invited speaker, 5-9 March 2018)
- International Conference on the Evolution of Contemporary Mathematics and its Impact on Sciences and Technology, Constantine, Algeria, October 2017 (Member of Scientific Committee & speaker)
- Journées Arithmétiques 2017 3-7 July 2017, Caen, France *Jimm, a fundamental involution.*
- A special day on the occasion of the anniversary of the Feza Grsey Institute, 28 April 2017 (Modüler grubun dış otomorfizmi ve dinamik sistemler, A talk dedicated to the memory of Ali Özlük)
- Rencontre autour de la fonction de Minkowski, 29-31 March 2017, Grenoble *Dynamics around the outer automorphism of the modular group*
- October 24-28, 2016, Grenoble, France: workshop on "Complex Affine Geometry, Effective Hyperbolicity, Analysis in honor of Mikhail Zaidenberg". *Jimm, a fundamental involution.*
- Marmara Matematik Günleri, Istanbul, November 2016 *Jimm, a fundamental involution*
- International Congress on Fundamental and Applied Sciences, Istanbul, August 2016. *Jimm, a fundamental involution*
- Arithmetic and Low Dimensional Hyperbolic Spaces 27 June - 1 July 2016, Galatasaray University, Istanbul *Jimm, a fundamental involution.*
- Extended Differential Calculus: Diffeology Etc 29 June - 1 July 2016, Galatasaray University, Istanbul *Jimm, a fundamental involution.*
- 97e rencontre entre mathématiciens et physiciens théoriciens : Autour de Poincaré Strasbourg, June, 2016 *Jimm, a fundamental involution.*

- Séminaire IRMA, Strasbourg, January 29, 2016 *Jimm, a fundamental involution*.
- The First Romanian-Turkish Mathematics Colloquium, Ovidius University, Constanza, Romania *A class of continued fraction maps*. (October 2015).
- Ankara-Istanbul Algebraic Geometry & Number Theory Meetings *Jimm, a fundamental involution 1-4*. (2015)
- Mimar Sinan University, Istanbul, Turkey *Jimm, a fundamental involution*. (December 2014).
- Mimar Sinan University, Istanbul, Turkey *Jimm, a fundamental involution*. (December 2014).
- Colloque “Statistique & Applications Avancés”, Constantine, Algeria (invited guest) (November 2014)
- İzmir Yüksek Teknoloji Enstitüsü, Mathematics Department. *Jimm, a fundamental involution*. (November 2014)
- Workshop on Model Theory and Groups at Istanbul Center for Mathematical Sciences, Istanbul, October 2014 (Invited Speaker)
- Nesin Mathematics Village, Şirince, İzmir. *Actions of the Modular Group*, lecture series
- Master Class : Around Thurston-Grothendieck-Teichmüller theories IRMA, May 9 - 17, 2014 *Actions of the Modular Group*
- Séminaire Georges Reeb d'Algèbre et Géométrie Différentielle, Laboratoire de Mathématiques, Informatique et Applications, Université de Haute Alsace, May 12, 2014 *Çark Groupoids and Thompsons Groups*.
- Istanbul Ticaret Üniversitesi, Mathematics Department, April 2014, *Modler Grup ve Etkileri*
- Université Tebessa, Tebessa, Algeria (October 2013) *Binary quadratic forms as dessins*
- Conference on Finsler Geometry, Samos, Greece. (June 2013) *Binary quadratic forms as dessins*
- Middle East Technical University, Ankara, Turkey (May 2013) *Çark Groupoids and Thompson Groups*
- Commutative Algebra Research Group at King Fahd University of Petroleum and Minerals Dammam, Saudi Arabia (April 2013) *Binary quadratic forms and the Çark groupoid*
- Haliç University, Istanbul, Turkey (April 2013) *Çark Groupoids and Thompson's Groups*
- Istanbul Number Theory Meetings, Istanbul Center for Mathematical Sciences, Turkey (February 2013) *Binary Quadratic Forms as Dessins*

- Institut de Recherche Mathématique Avancée, Strasbourg, France (January 2013) *Binary Quadratic Forms as Dessins*
- Yıldız Technical University, Istanbul, Turkey (March 2013) *Euclid's Algorithm, Çarks and the Class Groupoid*
- Conference on Teichmüller Theory Erwin Schrödinger Institute, Vienna (February 2013) *Binary Quadratic Forms as Dessins*
- Zirve University, Gaziantep, Turkey (December 2012) *Binary Quadratic Forms as Dessins* (December 2012) *Euclid's Algorithm, Çarks and the Class Groupoid*
- Conference on Group Actions and Applications in Geometry, Topology and Analysis Kunming, China (July 2012) *Binary Quadratic Forms as Dessins*
- Mimar Sinan University, Istanbul, Turkey (April 2012) *Euclids Algorithm, Çarks and the Class Groupoid*
- Çukurova University, Adana, Turkey (March 2012) *Euclid's Algorithm, Çarks and the Class Groupoid*
- Istanbul Technical University, Istanbul, Turkey (November 2011) *Euclid's Algorithm, Çarks and the Class Groupoid*
- Institut de Recherche Mathématique Avancée, Strasbourg, France (June 2011) *Hypergeometric Galois Actions I*
- Izmir Algebraic Geometric Topology Days II (January 2011) *Higher Mapping Class Groupoids*
- Fatih University, Istanbul, Turkey (December 2010) *The Groupoid of Orientation Twists and Triangulation Flips*
- Number Theory, Arithmetic and Algebraic Geometry at Northern Cyprus (April 2010) *Hypergeometry and Modularity*
- Istanbul Technical University, Istanbul, Turkey (April 2010) *Modular group, ribbons and solenoids*
- Istanbul Bilgi University, Istanbul, Turkey (November 2009) *Modular group, ribbons and solenoids*
- Mimar Sinan University, Istanbul, Turkey (October 2009) *Hypergeometric Galois Actions I-II*
- International School and Conference on Foliations, Dynamical Systems, Singularity Theory and Perverse Sheaves Samarkand, Uzbekistan (October 2009) *The Universal Arithmetic Curve*

- 22nd National Mathematics Symposium of the Turkish Mathematical Society, İzmir, Turkey (September 2009) *Modular group, ribbons and solenoids* (series of talks)
- Ankara Mathematics Days, Middle East Technical University, Ankara, Turkey (June 2009) *The Universal Arithmetic Curve*
- Antalya Algebra Days, Antalya, Turkey (May 2009) *The Universal Arithmetic Curve*
- Bilkent University, Ankara, Turkey (May 2009) *Hypergeometric Galois Actions, Lattices and K3 surfaces*
- Izmir Algebraic Geometric Topology Days, Izmir, Turkey (January 2009) *Hypergeometric Galois Actions*
- Middle East Technical University, Ankara, Turkey (November 2008) *Hypergeometric Galois Actions*
- Sabanci University, Istanbul, Turkey (November 2008) *Hypergeometric Galois Actions*
- Kyushu University, Fukuoka, Japan (April 2008) *K3 Orbifolds*
- Kyushu University, Fukuoka, Japan (April 2008) *Discriminant varieties, branched covers and some odd things that I know about Fermat curves*
- Tokyo University of Science, Tokyo, Japan (April 2008) *Discriminant varieties, branched covers and some odd things that I know about Fermat curves*
- Bilgi University, Istanbul, Turkey (April 2008) *K3 Orbifolds*
- Humboldt University, Berlin, Germany (February 2007) *A panorama of orbifolds in the complex geometry*
- Koç University, Istanbul (November 2006) *Orbifold Braid Groups*
- Topology of Complex Algebraic Varieties, Alghero (September 2006) *Topology of complex orbifolds*
- CMI Summer School on Arithmetic Geometry, (August 2006) informal seminar on *Covering relations among ball quotient orbifolds*
- Erwin Schrodinger Institute, Vienna (May 2006) *Classification of Calabi-Yau orbifolds*
- Feza Gursey Institute, Istanbul, Turkey (March 2006) *Finite abelian smooth uniformizations of projective spaces and Calabi-Yau orbifolds*
- Humboldt University, Berlin, Germany (January 2006) *Finite abelian smooth uniformizations of projective spaces and Calabi-Yau orbifolds*

- Ecole Polytechnique de Lozère, Séminaire Arthur L. Besse. Paris, France (October 2005) *Covering relations among ball quotient orbifolds*
- EMS Summer School Braid Groups and Related Topics- Applications to Geometry, Cryptography and Computation. Tiberias, Israel (September 2005) *Uniformization of orbifolds and orbifold braid groups*
- Modular Forms, Automorphic Forms and Related Moduli Spaces, Rome (September 2005) *Calabi-Yau coverings of projective spaces*
- Arithmetic and Geometry Around Hypergeometric Functions, CIMPA Summer School, Istanbul, Turkey (June 2005) *Geometry of Complex Orbifolds*
- Antalya Algebra Days, Antalya, Turkey (May 2005): *Calabi-Yau orbifolds*
- Yıldız Teknik University, Istanbul, Turkey (April 2005): *Karmaşık eğri tekillikleri ve düğümler kuramı ile ilişkisi (Plane curve singularities and their connections with knot theory)*
- Middle East Technical University, Ankara, Turkey (October 2004): *Fundamental groups of plane curve complements*
- Hannover University, Hannover, Germany (October 2004) *Galois coverings of the plane by K3 surfaces*
- Max Planck Institut, Bonn, Germany (July 2004) *Coverings of projective spaces by products of discs*
- Bosphorus University, Istanbul Turkey (May 2004) *Braid groups of an orbifold*
- Humboldt University, Berlin, Germany (January 2004) *Coverings of projective spaces by products of discs and the braid groups of an orbifold*
- Middle East Technical University, Ankara, Turkey (October 2003): *Infinite towers of ball-quotient orbifolds over the projective plane*
- Max Planck Institute Bonn, Germany (September 2003): *Orbifold geography in complex dimension 2 -or- non-abelian coverings of the projective plane*
- Feza Gursey Institute, Istanbul, Turkey (March 2003): *Uniformizing orbifolds over projective spaces and orbifold braid groups*
- Balıkesir University, Balıkesir, Turkey (May 2002): *Pürüzsüzlüğün girişim altında bozulması hakkında (On possible deterioration of Smoothness under convolution)*
- Technion University, Haifa, Israel, (March 2001): *Branched Galois self-coverings of projective plane*

- Institut Joseph Fourier, Grenoble, France, (November 1999): *Groupes abstraits, groupes fondamentaux*. (Abstract groups, fundamental groups).
- Bilkent University, Ankara, Turkey (October 1998): *On a Theorem of Mori*.
- Rostov University, Rostov, Russian Federation “Conference on Analysis and Geometry”, (August 1998): *On the existence of Green function and bounded harmonic functions*.
- Institut Joseph Fourier, Grenoble, France, (May 1998): *Théorie des fonctions sur les revêtements des surfaces de Riemann, I-II*. (Function theory on the covers of Riemann surfaces I-II).
- Institut Joseph Fourier, Grenoble, France (September 1997): *Sur la détérioration de la lissité sous l’opération de convolution*. (On deterioration of smoothness under the operation of convolution).