# CURRICULUM VITAE

**Personal information**

**Name:** Tamás SZAMUELY
**Date of Birth:** 15.08.1971
**Place of Birth:** Budapest (Hungary)
**Permanent address:**
   Dipartimento di Matematica,
   Università degli studi di Pisa
   Largo Bruno Pontecorvo 5, 56127 Pisa, Italy
**Phone:** +39 050 2213256
**email:** `tamas.szamuely@unipi.it`
**URL:** `pagine.dm.unipi.it/tamas`

**Positions held**

**2019–** Full Professor, Università degli studi di Pisa
**1998–2020** Research Fellow at Alfréd Rényi Institute of Mathematics
   2012–2020 Research Advisor (corresponding to full professor,
         on leave 2019–2020)
   2004–2012 Senior Research Fellow;
   2001–2004 Research Fellow with tenure, also serving as Scientific
         Secretary of the Institute

**2012–2018** Adjunct Professor at Central European University, Budapest
**1997–1998** Temporary Lecturer (ATER) at Université de Paris-Sud (France)

**Studies and qualifications**

**2012** Doctor of the Hungarian Academy of Sciences

**1994–1998** Graduate studies at Université de Paris-Sud (Orsay, France)

   1998: **PhD** in Pure Mathematics (advisor: J.-L. Colliot-Thélène)
   1995: **DEA (MSc)** in Pure Mathematics (with L. Illusie, M. Raynaud, J.-L. Colliot-Thélène)

**1989–1994** Studies at Loránd Eötvös University, Faculty of Science (Budapest, Hungary)

   1994: **Diploma (MSc) in Mathematics** with Special Mention

**Language skills**

Hungarian (native), English (fluent), French (fluent), German (fluent), Italian (fluent)

**Long-term Visits (1 month or more)**

**2010** Visiting Professor at University of Pennsylvania (Philadelphia) (1 semester)
**2009** Invited participant at the Noncommutative Fundamental Groups Semester, Isaac Newton Institute (Cambridge, UK) (1 month)
**2008** Visiting Researcher, École Normale Supérieure, Paris (1 month)
    Visiting Researcher, Universität Hannover (1 month)
**2007** Invited researcher, Centre Emile Borel, Institut Henri Poincaré, Paris (1 month)
    Visiting Researcher at Università di Roma II, Italy (1 month)
**2005** Visiting Researcher, Université de Paris-Sud (Orsay, France) (2 months)
**2002** Invited Lecturer, Université de Paris-Sud (Orsay, France) (2 months)
    Visiting Researcher at Universität Essen, Germany (1 month)
**2001** Postdoctoral fellow at Université de Franche-Comté (Besançon, France) (1 month)
**2000** Visiting Researcher at University of Nottingham (UK) (1 month)
**1998** Invited participant at the Arithmetic Geometry Semester, Isaac Newton Institute (Cambridge, UK) (2 months)

**Invited Lectures**

**2021** Skorobogatov 60, Paris, France (3–6/11/2021)
**2019** Algebraic K-Theory, Oberwolfach, Germany (24–28/06/2019)
   Geometry of arithmetic varieties, Peking University (2–6/09/2019)
**2018** A Tale of Algebra and Geometry, Pisa (4–7/06/2018)
**2017** ECHORaP Conference, Emory University, Atlanta, USA (15–19/05/2017)
   Nilpotent Fundamental Groups, Banff, Canada (18–23/06/2017)
   Algebraic K-Theory and Arithmetic, Bedlewo, Poland (20–26/08/2017)
**2016** Motives workshop, University of Tokyo, Japan (15–19/02/2016)
   Arithmetic of fundamental groups, Institut Henri Poincaré, Paris (25/05–03/06/2016)
   Arithmetic algebraic geometry, Courant Institute, New York University (29/08–02/09/2016)
   Rational points and algebraic geometry, CIRM, Luminy, France (26–30/09/2016)
   Arithmetic Geometry Seminar, Oxford University
   Number Theory Seminar, University of Debrecen
   Algebraic Geometry Seminar, University of Michigan, Ann Arbor
   Mathematics Colloquium, Wayne State University, Detroit

Algebra Seminar, Brown university, Providence

Algebraic Geometry Seminar, Scuola Normale Superiore di Pisa

**2015** AMS Summer Research Institute in Algebraic Geometry, Salt Lake City, USA (13–31/07/2015)

The IUT Theory of Shinichi Mochizuki, Clay Mathematical Institute, Oxford, UK (7–11/12/2015)

Rencontres Arithmétiques de Caen (France, 24-26/06/2015)

SAGA, Université de Paris-XI, Orsay, France (23/06/2015)

**2014** Summer School on the Fundamental Group Scheme, Nice, France (05-07/05/2014) (2 lectures)

Algebraic Geometry Seminar, Humboldt-Universität Berlin

Algebraic Geometry Seminar, Universit Paul Sabatier, Toulouse

Geometry Seminar, EPFL Lausanne

**2013** Number theory workshop, Constanţa, Romania (22–23/05/2013)

Special day of 'Variétés rationnelles' seminar, Université Pierre et Marie Curie, Paris

Algebraic geometry seminar, Mathematical Institute of the Romanian Academy of Sciences, Bucharest

Algebraic Geometry seminar, Universität Zürich

**2012** Final workshop of the 'Algebraic Cycles and L-Functions' project, Universität Regensburg (27/02–02/03/2012)

Rational and integral points, with special reference to homogeneous spaces, Beijing Conference Centre, (24–30/09/2012)

Algebraic geometry seminar, LMU München

Mathematics Colloquium, Universität Regensburg

Mathematics Colloquium, EPFL Lausanne

'Variétés Rationnelles' seminar, Ecole Normale Supérieure, Paris

Seminar, University of Poznan

**2011** Arithmetic and Motivic Geometry, Universität Regensburg (14/02–18/02/2011)

Spring School on Higher-dimensional Class Field Theory (4 lectures), Universität Mainz (14/03–18/03/2011)

Colloque Galois (200th anniversary conference), Institut Henri Poincaré, Paris (24/10–28/10/2011)

Motives workshop, University of Tokyo (12/12–16/12/2011)

Lecture series at Capital Normal University, Beijing (5 lectures + colloquium)

Colloquium at University of Tokyo

**2010** Geometric and Differential Galois Theory, CIRM, Luminy (29/03–02/04/2010)

Mini-Workshop on 1-Motives, Oberwolfach (12–16/12/2010)

Lecture series at Universität Heidelberg (4 lectures) on the occasion of the PIA 2010 conference

Seminar at Ecole Normale Supérieure, Paris

7 seminar lectures at University of Pennsylvania, Philadelphia

Algebraic Geometry Seminar, Princeton University
Number theory seminar, University of California at San Diego
Mathematics Colloquium, University of California at San Diego
**2009** Arithmetic of Fields, Oberwolfach (01–06/02/2009)
Séminaire Bourbaki, Paris (14–15/03/2009)
Non-Abelian Fundamental Groups in Arithmetic Geometry: Introductory Workshop, Newton Institute, Cambridge, UK (27–31/07/2009)
**2008**
Oberseminar Algebraische Geometrie, Universität Bielefeld
Oberseminar Algebraische Geometrie, Universität Essen
Algebra seminar, Universität Basel
Algebraic Geometry seminar, Universität Zürich
Algebraic Geometry Seminar, Scuola Normale Superiore, Pisa
**2007** Central Simple Algebras over Function Fields of Surfaces, Universität Konstanz, Germany (26/08 - 01/09/2007)
Number Theory Seminar, Università di Roma II
Colloquium lecture, Mathematical Institute of the Romanian Academy of Sciences, Bucharest
**2006** Arithmetic of Fields, Oberwolfach (05–10/02/2006)
Arithmetic Galois Groups and Related Moduli Spaces, RIMS, Kyoto (23–31/10/2006)
Seminario Unomotivico, Università di Padova
**2005** Conference in Honour of Luc Illusie (Orsay, 27–29/06/2005)
Oberseminar Algebraische Geometrie, Universität Essen
Number theory seminar, EPFL Lausanne
Mathematisches Kolloquium, Universität Regensburg
Arithmetic Geometry Seminar, Universität Regensburg
**2003** Séminaire Bourbaki (Paris, 21–22/06/2003)
Arithmetic Fundamental Groups (BIRS, Banff, Canada, 06–13/09/2003)
Number Theory seminar, Institut Fourier (Grenoble, France)
Rational Varieties seminar, Ecole Normale Suprieure, Paris
Arithmetic Fundamental Groups (BIRS, Banff, Canada, 06–13/09/2003)
**2002** Oberseminar Algebraische Geometrie, Universität Essen
**2001** SAGA, Université de Paris-Sud (Orsay, France)
Number Theory Seminar, Université de Bordeaux I
Number Theory Seminar, Université de Franche-Comté (Besançon)
**2000** Motivic Cohomology (CIRM, Luminy, France, 24–28/01/2000 )
University of Cambridge (UK) number theory seminar
University of Durham, Pure Mathematics Colloquium
University of Nottingham, Pure Mathematics Colloquium
**1999** AMS Von Neumann Symposium on Arithmetic Fundamental Groups and Noncommutative Algebra, MSRI, Berkeley (16–27/08/1999)
Algebraic K-Theory (Oberwolfach, Germany, 27/09/1999–01/10/1999)
**1998** Fundamental groups of curves, CIRM, Luminy, France,
University of Cambridge (UK) number theory seminar

(29/11/1998–04/12-1998)
**1996** Higher Class Field Theory of Arithmetic Schemes (CIRM, Luminy)

## Organisation of International Conferences

**2024** Regulators 5, 03-16/06/2024 (member of organizing committee)
**2022** Geometry and Arithmetic of Moduli Spaces, University of Pisa, 18-22/07/2022 (member of organizing committee)
**2015** Journées Arithmétiques 2015, University of Debrecen (member of scientific committee)
**2014** Recent Developments in Algebraic and Arithmetic Geometry, Rényi Institute, Budapest (member of organizing committee)
**2013** Motivic Galois Groups, Rényi Institute, Budapest, 02–06/09/2013 (with S. Müller-Stach)
   Fundamental Groups in Arithmetic and Algebraic Geometry, Ennio de Giorgi Center, Pisa, 12–16/12/2013 (with N. Borne, A. Vistoli)
**2007** $p$-adic Methods and Rational Points, Rényi Institute, Budapest, 18–21/05/2007 (with H. Esnault, S. Wewers)
   Géométrie arithmétique et variétés rationnelles, CIRM, Luminy, 3–7/12/2007 (with D. Harari)
**2001** Higher Dimensional Varieties and Rational Points, Rényi Institute, Budapest, 03–21/09/2001 (with K. Böröczky Jr.)

## Awards and Honours

**2009** Paul Turán Prize of the Hungarian Academy of Sciences
**2002** Young Researcher's Prize of the Hungarian Academy of Sciences
**2001/2004** Bolyai Scholarship of the Hungarian Academy of Sciences
**1994** Prize of Excellence of the Faculty of Science, Eötvös University
**1993/1994** Scholarship of the Hungarian Republic

## Service to the community

– Referee for international journals (including Annals of Mathematics, Inventiones Mathematicae, Journal of the American Mathematical Society, Duke Mathematical Journal, Mathematische Annalen, Compositio Mathematica, etc.) and conference volumes
– Reviewer of project proposals for various science foundations
– Reviewer for Mathematical Reviews (1998–2010)

## Administrative activity

**2001–2004** Scientific Secretary, Alfréd Rényi Institute of Mathematics
**2006–2011, 2013–2016** Member of Doctoral Program Committee, Central European University, Budapest

**PhD Students Supervised**

Peter Jossen (Central European University, Budapest, 2009)
Levente Nagy (Central European University, Budapest, 2018)
Mattia Pirani (Università degli studi di Pisa, started in 2020)

**Master Theses Supervised**

Peter Jossen (EPFL Lausanne, 2006)
Kálmán Cziszter (Loránd Eötvös University, Budapest, 2008)
Áron Tábor (Loránd Eötvös University, Budapest, 2009)
Levente Nagy (Loránd Eötvös University, Budapest, 2011)
Martin Allen (Université Paris-Sud, 2015)
Marion Jeannin (EPFL Lausanne, 2016)
Mattia Pirani (Università degli studi di Pisa, 2020)
Giacomo Hermes Ferraro (Università degli studi di Pisa, 2021)
Andrea Gallese (Università degli studi di Pisa, 2022)
Giovanni Bruno (Università degli studi di Pisa, 2022)
Pier Roberto Pastorino (Università degli studi di Pisa, 2023)
Lucrezia Bertoletti (Università degli studi di Pisa, 2023)

**Colloquia (4th year projects) at Scuola Normale Superiore Pisa**

Morena Porzio (2019)
Federico Moretti (2019)
Giacomo Hermes Ferraro (2020)
Davide Gori (2020)
Lucrezia Bertoletti (2022)
Nicolò Bignami (2022)

**Bachelor Theses Supervised**

Cristofer Villani (Università degli studi di Pisa, 2022)

**Teaching Experience**

**2019**– Undergraduate and graduate courses at Università degli studi di Pisa
**2008–2017** Graduate courses at Central European University (Budapest): Basic Algebraic Geometry, The Language of Schemes, Algebraic Number Theory, Linear Algebraic Groups, Topics in Commutative Algebra, Arithmetic of Elliptic Curves, Brauer Groups, Galois Groups and Fundamental Groups
**2010/2011** University of Pennsylvania (Philadelphia): Math 512 (Advanced Linear Algebra)
**2006/2007** Intensive course at SNSB Bucharest: $p$-adic Numbers and Equations over Finite Fields

**2003–2005** Budapest Semesters in Mathematics: Basic Algebraic Geometry (also in 2015, jointly with CEU)

**1998–2010** Various courses at Eötvös and Technical Universities (Budapest): Basic Algebraic Geometry, Elliptic Curves, Brauer Groups, Galois Groups and Fundamental Groups, $p$-adic Numbers and Equations over Finite Fields, Linear Algebraic Groups

**1997/98** Undergraduate teaching at Université de Paris-Sud (France)

**1991–94** Undergraduate teaching at Loránd Eötvös University (Budapest)