

CURRICULUM VITAE ET STUDIORUM

Filippo Bracci

A. General Information.

Present position: Full Professor in Geometry, at Università di Roma “Tor Vergata”, since 1 January 2007.

8 May 1973: I was born in Firenze, Italy.

12 July 1996: I got the degree (laurea) in Mathematics at Università di Firenze, with a first-class honor; advisor: Prof. G. Gentili.

November 1996–October 2000: PhD student in Mathematics at Università degli Studi di Padova.

20 February 2001: I obtained a PhD in Mathematics at Università degli Studi di Padova with the dissertation entitled *Fixed points of holomorphic mappings*.

1 November 1999—31 October 2004: Tenured assistant professor in Geometry at Università di Roma “Tor Vergata”.

1 November 2004—31 December 2006: Associate Professor in Geometry, at Università di Roma “Tor Vergata”.

B. Scientific Interests.

- Several Complex Variables
- Holomorphic Dynamics
- Iteration theory
- Commuting mappings
- Semigroups of holomorphic mappings
- Holomorphic Foliations
- Localization of characteristic classes
- Complex Monge-Ampère equations
- Loewner equations
- Gromov’s hyperbolicity theory

C. Funds

- 01/01/2023—31/12/2027 Principal Investigator, Excellence Department Project, *MatMod@TOV* funded by MUR, Ref:E83C23000330006 Euro 8.000.000
- 15/06/2023—15/06/2025 Principal Investigator, project **PRIN** (2022) *Real and Complex Manifolds: Geometry and holomorphic dynamics* Ref: 2022AP8HZ9 Euro (total) 187.500
- 01/04/2019—18/07/2023 Principal Investigator, project **PRIN** (2017) *Real and Complex Manifolds: Topology, Geometry and holomorphic dynamics* Ref: 2017JZ2SW5 Euro (total) 613.000
- 01/11/2016—30/10/2019 local coordinator, project **PRIN** (2015) *Varietà reali e complesse: geometria, topologia e analisi armonica* Ref:2015A35N9B-010 Euro 20.579
- 01/02/2013—31/01/2016 local coordinator, project **PRIN** (2010-11) *Varietà reali e complesse: geometria, topologia e analisi armonica* Ref:2010NNBZ78002 Euro: 65.603
- 01/11/2011—31/10/2016 Principal Investigator, project **ERC** “Ideas” Starting Grant (2010) *Holomorphic Evolution Equations (HEVO)* Ref:277691, Euro: 700.000
- 01/12/2010—01/12/2014 Principal Investigator, project **FIRB** “Futuro in Ricerca” (2008) *Geometria Differenziale Complessa e Dinamica Olomorfa* Ref:RBFR08B2HY Euro: 233.200
- 22/09/2008—21/09/2010 local coordinator, project **PRIN** (2007) *Azioni di gruppi su varietà CR e complesse, spazi di moduli, teoria geometrica delle funzioni e dinamica olomorfa* Ref:2007BET4BR004 Euro: 36.000

D. Seminars and talks.

- November 1997: *Applicazioni olomorfe che commutano in domini strettamente convessi*, National Meetings GNSAGA.
- December 1997: *Mappe olomorfe che commutano e punti fissi*, Dipartimento di Matematica Pura e Applicata, Università di Padova.
- May 1998: *Punti fissi di applicazioni olomorfe che commutano*, Dipartimento di Matematica, Università di Bologna.
- June 1998: *Metriche Invarianti in analisi complessa*, Università di Padova.
- November 1998: *Metriche invarianti e mappe olomorfe che commutano*, Università di Firenze.
- March 1999: *Iteration Theory, commuting holomorphic maps and fixed points*, University of Illinois, Urbana-Champaign, IL, USA.
- April 1999: *Rigidity properties of commuting holomorphic maps*, Purdue University, IN, USA.
- December 1999: *Metamorphoses of Julia’s Lemma*, Midwest Several Complex Variables, Ann Arbor, USA.
- December 1999: *Identity Principles for holomorphic map*, Michigan State University, East Lansing, MI, USA.
- January 2000: *Mappe lineari fratte della palla unità*, Università di Roma “Tor Vergata”.
- May 2000: *Indici residuali di mappe olomorfe relativi a curve invarianti su superfici*, Università di Firenze.
- June 2000: *Residual indices for holomorphic mappings relative to curves of fixed points*, Complex dynamics and Geometry, INDAM, Cortona.
- December 2000: *Foliazioni olomorfe e foglie invarianti versus mappe olomorfe e curve di punti fissi*, Università di Roma “Tor Vergata”.
- December 2000: *Principi di identità per funzioni olomorfe dal disco in sé*, Università di Padova.

- March 2001: *Osservazioni su di alcune congetture di C. Cowen sui punti fissi di mappe olomorfe che commutano per composizione*, Dipartimento di Matematica Applicata, S. Marta, Università di Firenze.
- November 2001: *Index theorems for holomorphic self-maps and applications to dynamics*, Hokkaido University, Sapporo, Japan.
- December 2001: *Localizzazione di classi caratteristiche e dinamica olomorfa*, Università di Padova.
- January 2002: *Punti fissi comuni di funzioni olomorfe che commutano*, Università di Ancona.
- January 2002: *Dinamica olomorfa discreta e continua per mezzo di teoremi dell'indice*, Università di Roma "Tor Vergata".
- March 2002: *Punti fissi repulsivi, successioni inverse di iterate e punti fissi di mappe che commutano*, Università di Firenze.
- April 2002: *Index theorems for holomorphic self-maps*, Workshop *Topologie algébrique et singularités*, CIRM, Luminy-Marsiglia, France.
- May 2002: *Dynamics of holomorphic mappings via index theorems*, Tuebingen, Germany.
- May 2002: *Un teorema di Lefschetz olomorfo per mappe olomorfe con un insieme di punti fissi di codimensione uno*, Università di Parma.
- September 2002: *dinamica olomorfa locale*, Meeting, Mondello, Palermo.
- November 2002: *Residues for singular pairs and applications to dynamics*, Workshop, Kyoto Japan.
- December 2002: *Localizzazione di classi caratteristiche e applicazioni alla dinamica*, Università dell'Aquila.
- December 2002: *Teoremi dell'indice e applicazioni*, Scuola Normale Superiore Pisa.
- April 2003: *Dinamica Olomorfa e teoremi dell'indice*, Seminar of Mathematical Physics, Università di Roma "Tor Vergata".
- April 2003: *Diffeomorfismi, foliazioni olomorfe, classi caratteristiche e dinamica*, Università di Firenze.
- June 2003: *Applications of residues' theory to holomorphic dynamics*, Meeting *Complex Analysis and Geometry XVI*, Levico.
- June 2003: *Dinamica vicino a punti quasi-parabolici*, Convegno *Dinamica in Italia*, Scuola Normale Superiore, Pisa.
- August 2003: *Generalizations of the Camacho-Sad index theorem and applications*, workshop *Complex Analytic Methods in Dynamical Systems*, IMPA, Rio de Janeiro.
- September 2003: *Dinamica locale di diffeomorfismi olomorfi in $\mathbb{C}^2$* , Congresso UMI, Milano.
- January 2004: *Splittings, comfortably embedded subvarieties and index theorems*, RIMS Symposium on Topological and geometrical methods of complex differential equations, Kyoto (Japan)
- January 2004: *Dynamics of holomorphic self-maps of bounded domains*, Hokkaido University, Sapporo, Giappone.
- February 2004: *Commuting holomorphic maps*, University of Seville, Spain.
- June 2004: *L'equazione di Monge-Ampère con singolarità al bordo di domini strettamente convessi*, Università di Roma "Tor Vergata".
- September 2004: *Monge-Ampère foliations with singularities at the boundary of strongly convex domains*, Congress *CR Geometry and Partial Differential Equations*, Levico.
- October 2004: *Iteration theory in bounded domains of $\mathbb{C}^n$* , Trinity College Dublin, Ireland.
- January 2005: *Teoria dell'intersezione, residui di Grothendieck e dinamica olomorfa*, Università di Roma "La Sapienza".
- March 2006: *Iteration theory from a pluripotential view* Coloquios Instituto de Matemáticas de la Universidad de Sevilla Antonio de Castro Brzezicki, Siviglia.
- April 2006: *Pluripotential theory in strongly convex domains from a boundary point of view* University of Ljubljana (Slovenia).

- April 2006: *Semigrupper di mappe olomorfe e teoria del pluripotenziale*, Università di Roma “Tor Vergata”.
- June 2006: *What is the Poisson kernel in several complex variables?*, Congress Symposium in Complex Analysis, Slovenia 2006, Kranjska Gora (Slovenia).
- September 2006: *Poisson kernel, Monge-Ampère equations and reproducing formulas for pluriharmonic functions*, Congress CR Geometry and Partial Differential Equations II, Levico.
- December 2006: *Localization of characteristic classes on singular varieties and dynamics of holomorphic diffeomorphisms*, Congress Geometry and Analysis on Complex Algebraic Varieties, RIMS Kyoto University, Japan.
- May 2007: *Il nucleo di Poisson in più variabili e applicazioni alla teoria dei semigrupper*. Università di Bologna.
- October 2007: *Teoria del pluripotenziale e semigrupper di mappe olomorfe*. Università di Cosenza.
- December 2007: *Nucleo di Poisson pluricompleso e applicazioni*. Università di Parma.
- February 2008: *Pluripotential theory and applications to semigroups*, Congress Second Winter School in Complex Analysis and Operator Theory, Seville, Spain.
- February 2008: *Foliations, Distributions and Vanishing Theorems for Atiyah and Chern Classes*, Congress Global and Local Aspects of Holomorphic Foliations (conference in honor of the 60th birthday of A. Lins Neto, Angra dos Reis, Rio de Janeiro, Brasil).
- February 2008: *Famiglie di evoluzione su varietà iperboliche*, Centro de Giorgi, Pisa.
- May 2008: *Loewner equations on hyperbolic manifolds*. Workshop Open problems in complex analysis and dynamical systems. ORT Braude College, Karmiel, Israel.
- May 2008: *Pluripotential theory and semigroups of holomorphic mappings*. Technion, Haifa, Israel.
- May 2008: *Pluripotential methods in semigroups’ theory*. Bar-Ilan University, Israel.
- May 2008: *Residues for non-isolated fixed points of holomorphic mappings*. Weizmann Institute, Rehovot, Israel.
- November 2008: *Metamorphosis of the Poisson kernel*. University of Cork, Irlanda.
- March 2009: *Equazioni di Loewner*. Università di Parma.
- April 2009: *Le equazioni di Loewner su varietà complesse*. Università di Milano Bicocca.
- April 2009: *Localizzazioni di classi caratteristiche*. Università di Pavia.
- May 2009: *Evolution Families and the Loewner equation*. Congress Complex Analysis and Dynamical systems IV, Nahariya, Israel.
- June 2009: *Loewner equations on manifolds*. Congress Modern Complex Analysis and Operator Theory and Applications, IV, Madrid, Spain.
- September 2009: *Pluripotential theory and applications to semigroups and Loewner chains*, University Babes-Bolyai Cluj, Romania.
- October 2009: *One resonant biholomorphisms and applications to quasi-parabolic germs*, Workshop Asymptotics in dynamics, geometry and PDE’s; generalized Borel summation, Centro de Giorgi, Pisa.
- November 2009: *Loewner’s theory on complex manifolds*, Trinity College Dublin, Ireland.
- April 2010: *Loewner’s theory*, University of Tokyo, Japan.
- June 2010: *Loewner’s theory in the abstract and Parabolic Attitude*, Workshop New Trends in Harmonic and Complex Analysis. Jacobs University, Bremen, Germany.
- October 2010: *Abstract Loewner theory Meeting Géométrie des variétés complexes IV CIRM* Marseille, France.
- May 2011: *Dinamica Parabolica* Congress Geometria in Bicocca 2011 Milano Bicocca.
- September 2011: *Dynamics of the Loewner equations* Congress GFTA 2011 Cluj, Romania.
- September 2011: *Evoluzione Olomorfa* (plenary conference) Congress UMI Bologna.

- October 2011: *What is a Loewner chain?* Mittag-Leffler Institute, Sweden.
- January 2012: *Resonant dynamics of holomorphic germs of diffeomorphisms in higher dimension* Facultad de Matematica, University of Seville, Spain.
- February 2012: *Comportamento al bordo di semigruppi di mappe olomorfe del disco in sé.* Politecnico di Milano.
- May 2012: *Semigruppi e teoria di Loewner.* Università di Roma “La Sapienza”.
- July 2012: *Parabolic basins of attraction of resonant germs.* BIRS, Banff, Canada.
- July 2012: *Loewner theory on complete hyperbolic manifolds.* The 9th Korean Conference on Several Complex Variables, GyeongJu, Korea.
- September 2012: *Solving the Loewner PDE in higher dimensions* SCV Congress, Ljubljana, Slovenia.
- March 2013: *The range of holomorphic mappings close to boundary points* Oslo University, Norway.
- April 2013: *Loewner theory in one and several variables,* Colloquium talk, Shanghai Jiao Tong University, China.
- April 2013: *The open mapping theorem at the boundary,* Shanghai Jiao Tong University, China.
- May 2013: *Un teorema di mappa aperta al bordo.* Università di Firenze.
- May 2013: *The Julia-Wolff-Carathéodory theorem(s) for mappings and infinitesimal generators,* Congress CADS VI, Nahariya, Israel.
- June 2013: *Deterministic Loewner theory in one and several dimensions* 10th Advanced Course in Operator Theory and Complex Analysis, Sevilla, June 9th -13th, 2013.
- August 2013: *Solutions to the Loewner PDE in higher dimension and embedding problems,* University of Toronto, Canada.
- September 2013: *Teorema di mappa aperta al bordo in più variabili,* Università di Pisa.
- October 2013: *Metamorphosis of Evolution Equations,* Würzburger Mathematische Kolloquium, Universität Würzburg, Germany.
- December 2013: *The open mapping theorem at the boundary in higher dimension,* Universität Wuppertal, Germany.
- February 2014: *Support points for the class S^0 in higher dimension,* Karmiel College, Israel.
- April 2014: *The open mapping theorem at the boundary,* Grenoble, France.
- May 2014: *Modeling Holomorphic iteration,* Several Complex Variables Symposium, Sanya, China.
- July 2014: *Open problems in Loewner theory in higher dimension,* Special Session “Complex analysis and operator theory” in First Joint International Meeting RSME-SCM-SEMA-SIMAI-UMI, Bilbao, Spain.
- May 2015: *Models for holomorphic self-maps and applications to commuting maps of the ball,* Technion-Israel Institute of Technology, Haifa, Israel.
- May 2015: *Univalent Mappings in higher dimension.* Congress CADS VII, Nahariya, Israel.
- June 2015: *Univalent mappings, horosphere boundary and prime end theory in higher dimension.* The eighth congress of Romanian mathematicians, Iasi, Romania.
- November 2015: *Univalent mappings in higher dimension.* University of Ljubljana, Slovenia.
- January 2016: *Carathéodory’s prime end theory via intrinsic metric and generalization.* University of Würzburg, Germany.
- February 2016: *A Carathéodory prime ends theory via intrinsic metric.* University of Wuppertal, Germany.
- June 2016: *Horospheres and extension of univalent maps in higher dimension* at the 13th Advanced Courses in Operator Theory and Complex Analysis, Lyon, France.
- November 2016: *Horospheres topology* Center for Advanced Study, Oslo, Norway.

- March 2017: *Una dimostrazione (e miglioramento) della congettura di Muir-Suffridge sulle mappe convesse* Università di Firenze, Italy.
- May 2017: *Convex maps in higher dimension* Complex and Harmonic Analysis III, Holon Institute of Technology, Holon, Israel.
- January 2018: *Extension of univalent maps in higher dimensions* IRMA, Strasbourg, France.
- April 2018: *Fantastic Fatou sets and where to find them* Ljubljana, Slovenia.
- May 2018: *Non-tangential convergence (and applications to holomorphic dynamics)* Università di Pisa.
- May 2018: *Strange Fatou components* NORDAN, Stavanger, Norway.
- June 2018: *Strange Fatou components* CIRM Conference “Cohomology of Complex Manifolds and Special Structures”, Levico Terme, Italy.
- July 2018: *Continuous extension of biholomorphisms in higher dimension*, Pacific Rim conference on CSG at Hayama, Japan.
- July 2018: *Strange Fatou components and Runge embedding of $\mathbb{C} \times \mathbb{C}^*$ into $\mathbb{C}^2$* , University of Tokyo, Japan.
- September 2018: *Gromov topology and extension of biholomorphisms*, Conference “Holomorphic Elliptic Geometry and Group Actions”, Bern (Switzerland).
- September 2018: *Is it converging non-tangentially?*, Conference on the Occasion of Professor Franc Forstnerič’s 60th Birthday “Stein Manifolds and Holomorphic Mappings”, Ljubljana (Slovenia).
- March 2019 *Strange Fatou components and where to find them*, Workshop “Dynamical Systems and Beyond”, Pisa.
- May 2019 *Hyperbolic geometry in simply connected domains*, Mini-course 4 hours, Fifth School in Complex Analysis and Operator Theory (Cullera, Spain)
- September 2019 *The slope of orbits of semigroups of holomorphic self-maps of the unit disc*, Workshop “(new trends in) Complex and Fourier analysis, and Operator Theory”, INdAM Roma.
- October 2019 *The slope of orbits of semigroups of holomorphic self-maps of the unit disc*, University of Würzburg (Germany).
- November 2019 *Semigroups of holomorphic self-maps of the unit disc: from dynamics to hyperbolic geometry*, Colloquium, University of Bern (Switzerland).
- December 2019 *Special lecture in Pluripotential Theory*, ICTP, Trieste.
- January 2020 *Estensioni al bordo di biolomorfismi in più variabili* Colloquium, Università di Parma.
- January 2020 *Parabolic Fatou components* Workshop “Complex Dynamics”, 27-31 January 2020 CIRM, Luminy.
- February 2020 *boundary infinitesimal rigidity of holomorphic maps* Jagiellonian University, Krakow, Poland
- February 2020 *The slope of orbits of semigroups of holomorphic self-maps of the unit disc* Colloquium, University of Lublin, Poland
- May 2020 *A new Schwarz-Pick Lemma at the boundary and Burns-Krantz type infinitesimal rigidity of holomorphic maps*, Virtual Conference on Complex Analysis and Complex Geometry, online.
- November 2020 *The pluricomplex Poisson kernel in strongly pseudoconvex domains* e-sciv (online)
- December 2020 *Gromov hyperbolicity in complex Analysis*. University of Singapore (online)
- January 2021 *Gromov meets Kobayashi: a journey through applications of Gromov hyperbolicity in complex analysis*. Weizmann Institute Israel (online)

- December 2021 *Continuous extensions of biholomorphisms in higher dimension*. Workshop “Geometric function theory in several complex variables and complex Banach spaces” Cluj-Napoca, Romania (online)
- January 2022 *Rigidity properties for holomorphic mappings*. The Conference on Complex Geometric Analysis in honor of Kang-Tae Kim’s 65th birthday, POSTECH, Korea (online)
- June 2022 *Abstract Boundaries and Applications*. Complex Analysis, Geometry and Dynamics, Portoroz, Slovenia
- September 2022 *Commuting Holomorphic Maps and Applications*. Indam Meeting “New Trends in Holomorphic Dynamics”, Cortona, Italia
- September 2022 *The (pluri)complex Poisson kernel*. Workshop INdAM: (New trends in) Complex and Fourier Analysis and Operator Theory, Roma, Italia
- September 2022 *Abstract Boundaries and Applications*. VIII International Conference of Mathematics and Computer Science “Congressio-Mathematica”, Olsztyn (Poland)
- January 2023 *Abstract Boundaries and extension of biholomorphisms*. Cohomology of Complex Manifolds and Special Structures - III, Trento, Italia
- February 2023 *Gromov hyperbolicity theory in complex analysis and semigroup-fication of univalent self-maps of the unit disc*. ICMAT, Madrid, Spain.
- July 2023 *Visibility and geodesic loops in Kobayashi complete hyperbolic and Gromov hyperbolic domains*. Workshop “Invariant Distances and Metrics in Complex Analysis”, Sofia, Bulgaria.
- November 2023 *Rigidity properties for holomorphic maps*. Universidad Complutense de Madrid, Spain.
- December 2023 *Completeness of frequencies for semigroups of composition operators*. Workshop “Holomorphic Flows vs. Semigroup (Operator) Theory”, ICMAT, Madrid, Spain.
- May 2024 *The Denjoy-Wolff theorem in simply connected domains*. Workshop “Parameter spaces in complex dynamics and related topics”, Centro di ricerca Matematica E. de Giorgi, SNS Pisa.
- June 2024 *Completeness of frequencies for semigroups of holomorphic self-maps of the unit disc*. Conference ACOTCA 2024, 18th edition, University of La Laguna, Tenerife, Spagna.
- October 2024 *Invariant subspaces for finite index shifts and the invariant subspace problem in Hilbert spaces*. Workshop “Geometric Methods of Complex Analysis”, Wuppertal, Germany.
- November 2024 *The Beurling theorem for finite index shifts and the invariant subspace problem*. Universidad Complutense Madrid, Spain.
- November 2024 *The Beurling theorem for finite index shifts and the invariant subspace problem*. Universit Federico II, Napoli.
- November 2024 *The Beurling theorem for finite index shifts on the Hardy space*. Workshop “Geometric Function Theory in Several Complex Variables and Complex Banach Spaces IV”, online.
- March 2025 *The Beurling theorem for finite index shifts and the invariant subspace problem*. Colloquium, Universidad de Granada, Spain.

E. Students:

Master thesis:

- [1] Francesco degli Innocenti, Università di Firenze, April 2003.
- [2] Luca Belli: Università di Roma “La Sapienza”, July 2008.
- [3] Marcello Colesante: Università di Roma “Tor Vergata”, May 2012.

- [4] Andrea del Monaco: Università di Roma “Tor Vergata”, July 2012.
- [5] Riccardo Ugolini: Università di Roma “Tor Vergata”, July 2015.
- [6] Josias Reppekus: Würzburg University, July 2017.
- [7] Matteo Fiacchi: Università di Roma “Tor Vergata”, July 2017.
- [8] Damiano D’Addezio: Università di Roma “Tor Vergata”, July 2019.

PhD Thesis:

- [1] Francesco degli Innocenti, Università di Pisa, November 2007.
- [2] Carlo Perrone, Università di Roma “Tor Vergata”, March 2008.
- [3] Leandro Arosio, Università di Roma “La Sapienza”, January 2011.
- [4] Luca Belli, Università di Roma “Tor Vergata”, July 2013.
- [5] Andrea del Monaco: Università di Roma “Tor Vergata”, April 2017.
- [6] Paolo Arcangeli: Università di Roma “La Sapienza”, April 2017.
- [7] Josias Reppekus: Università di Roma “Tor Vergata”, November 2020.
- [8] Matteo Fiacchi: Università di Roma “Tor Vergata”, November 2020.
- [9] Davide Cordella: Università di Roma “Tor Vergata”, December 2021.

F. Other activities.

Editorial Board Member:

Since January 2014: *Complex Manifolds*, ed. Versita (De Gruyter).

Since May 2014: *Computational Methods and Function Theory*, ed. Springer-Verlag.

Since June 2014: *Complex Analysis and Operator Theory*, ed. Springer-Verlag.

Since November 2020: *Bulletin des Sciences Mathématiques*. ed. Elsevier.

Since February 2022: *Annali dell’Università di Ferrara - Sezione VII Scienze Matematiche*. ed Springer-Verlag

February 2017-January 2025: *Proceedings of the American Mathematical Society*. ed. AMS Soc.

Organization of Conferences and Workshops:

Since September 2001: I’m the organizer of the permanent seminar of Complex Analysis at Università di Roma “Tor Vergata”.

December 2004: organizer of the workshop “Una giornata di Analisi Complessa” at Università di Firenze.

July 2005: organizer with G. Zampieri of the “Summer School on Real PDE’s for Complex and CR-Geometry”, at Istituto Trentino di Cultura in Povo (Trento).

January 2007: organizer with M. Abate, C. Camacho, F. Tovena of the international workshop “Local Holomorphic Dynamics” at Centro de Giorgi, Pisa.

June 2007: organizer with V. Ancona, C. Arezzo and A. Silva of the Congress CIRM *Complex Analysis and Geometry XVIII* at Levico, Trento.

September 2008: organizer with M. D. Contreras, S. Diaz-Madrigal, F. Perez-Gonzalez of the Workshop INDAM *Holomorphic Iteration, Semigroups, and Loewner Chains*. Roma.

June 2009: organizer with V. Ancona, C. Arezzo and A. Silva of the Congress CIRM *Complex Analysis and Geometry XIX* Levico, Trento.

June 2011: organizer with V. Ancona, C. Arezzo and A. Silva of the Congress CIRM *Complex Analysis and Geometry XX* Levico, Trento.

July 2011: Organizer with J.-E. Fornæss of the CIME School on *Pluripotential theory*.

February 2013: Organizer with E. Musso and F. Ricci of the workshop *varietà reali e complesse: geometria, topologia e analisi armonica* Pisa, Scuola Normale Superiore.

- June 2013: organizer with V. Ancona, C. Arezzo and A. Silva of the Congress CIRM *Complex Analysis and Geometry XXI* Levico, Trento.
- November 2013: organizer with H. Peters of the Workshop *The complex structure of attracting sets*, Lorentz Center, Leiden, the Netherlands.
- February 2014: organizer with E. Musso e F. Ricci del workshop *varietà reali e complesse: geometria, topologia e analisi armonica* Pisa, Scuola Normale Superiore.
- July 2014: Organizer with N. Arcozzi, M. D. Contreras, D. Girella of the Special Session “Complex Analysis and Operator Theory” within the First Joint International Meeting RSME-SCM-SEMA-SIMAI-UMI, Bilbao, Spain.
- August 2014: Organizer with J. Byun, H. Gaussier, K. Hirachi, K.-T. Kim, N. Shcherbina of “The KSCV10 Symposium” Gyeong-Ju, Korea.
- October 2014: Organizer with C. Arezzo, P. de Bartolomeis, A. Silva of the Meeting “Progressi Recenti in Geometria Reale e Complessa - IX” - Levico.
- June 2015: organizer with V. Ancona, C. Arezzo and A. Silva of the Congress CIRM *Complex Analysis and Geometry XXII* Levico, Trento.
- September 2015: organizer with C. Arezzo, J.-E. Fornæss, F. Forstnerič, X. Zhou of the *School and Workshop on Complex Analysis, Geometry and Dynamics*, ICTP, Trieste, Italy.
- September 2016: organizer with I. Graham, G. Kohr, O. Roth, D. Shoikhet of the Workshop “INDAM meeting: Geometric Function Theory in Higher Dimension” in Cortona (Italy).
- September 2016: organizer with N. Arcozzi, G. Gentili, A. Perotti, C. Stoppato, D. Struppa, of the INDAM Workshop “Complex function theory, its generalizations and applications”, Roma.
- October 2016: Organizer with C. Arezzo, P. de Bartolomeis, of the Meeting “Progressi Recenti in Geometria Reale e Complessa - X” - Levico, Trento.
- February 2017: organizer with E. Musso, F. Ricci of the workshop *varietà reali e complesse: geometria, topologia e analisi armonica* Pisa, Scuola Normale Superiore.
- May 2017: organizer with V. Milman, G. Patrizio, L. Ambrosio, G. Gentili, S. Reich, J. Rubinstein, D. Shoikhet, L. Zalcman of the *First Joint IMU-INDAM Conference in Analysis*, Tel Aviv, Israel.
- June 2017: organizer with C. Arezzo of the Congress CIRM *Complex Analysis and Geometry XXIII* Levico, Trento.
- September 2018: Organizer with C. Arezzo of the Meeting “Progressi Recenti in Geometria Reale e Complessa - XI” - Levico, Trento.
- February 2019: Organizer with A. Celletti, C. Liverani A. Sorrentino of the Conference “Dynamical Systems: from geometry to mechanics” Rome.
- June 2019: organizer with C. Arezzo of the Congress CIRM *Complex Analysis and Geometry XXIV* Levico, Trento.
- September 2019: organizer with A. Gibali, A. Golberg, S. Reich, K. Rubinstein, D. Shoikhet, G. Gentili, G. Patrizio, G. Moscariello of the *Second Joint IMU-INDAM Conference in Analysis*, Napoli.
- May 2020—: organizer with N. Arcozzi and M. Peloso of the *Complex Analysis Seminar Online*, Online seminar.
- June 2021: organizer with C. Arezzo and A. Tomassini of the Congress “ICTP-CIRM: Complex Analysis and Geometry XXV” - Levico, Trento and online.
- June 2021: organizer with G. Gentili, E. Musso, C. Petronio and F. Ricci of the Congress “Real and Complex Manifolds. The heritage of Edoardo Vesentini” - Scuola Normale Superiore Pisa and online.

- September 2021: organizer with H. Gaussier and A. Zimmer of the INdAM Workshop “Gromov hyperbolicity and negative curvature in complex analysis” Palazzone Cortona 6-10 September 2021.
- September 2022: organizer with C. Arezzo of the Congress “Complex Analysis and Geometry XXVI” - Levico, Trento.
- June 2023: organizer with D. Angella, A. M. Fino, P. Lisca, E. Musso, B. Nelli, A. Tomassini of the Workshop *Real and Complex Manifolds: Topology, Geometry and Holomorphic Dynamics*, Roma Tor Vergata.
- December 2023: organizer with E.F. Wold, L. Vivas, J. Raissy, of the Workshop *Recent developments on the dbar equation, complex dynamics and holomorphic mappings*, Oslo, Norway.
- September 2024: organizer with L. Arosio, M. Fiacchi, of the Workshop *Invariant metrics in complex analysis*, Roma.
- September 2024: organizer with C. Arezzo and A. Tomassini of the Workshop *Complex Analysis and Geometry XXVI*, Levico, Trento.

Others:

Since October 1999: reviewer for *American Mathematical Society*.

Since October 2004: member of the PhD School in Mathematics of Università di Roma “Tor Vergata”.

Since January 2005: reviewer for *Zentralblatt MATH*.

November 2007-April 2013: Head of the PhD School in Mathematics of the Università di Roma “Tor Vergata”.

November 2010-November 2012: Deputy Director of the Mathematics Department of Università di Roma “Tor Vergata”.

May 2013-October 2016: Deputy director of the PhD School in Mathematics of the Università di Roma “Tor Vergata”.

October 2013-February 2014: “Giovanni Prodi” chair in Nonlinear Analysis, Universität Würzburg, Germany.

January 2014-December 2019: Member of the Scientific Committee of C.I.M.E.

November 2018-October 2024: Director of the Mathematics Department of Università di Roma “Tor Vergata”.

November 2018-March 2021: member of the national committee for scientific habilitation as associate and full professors (Algebra and Geometry).

January 2020-October 2023: Member of the Scientific Committee of INdAM.

November 2021-October 2022: Deputy rector for didactics, University of Rome “Tor Vergata”.

January 2023-December 2023: “Profesore distinguido” ICMAT, Madrid.

Since November 2023: member of the Administrative Board of INdAM.

Since January 2024: Vice-President INdAM.

LIST OF PUBLICATIONS

Filippo Bracci

Books

- [A] F. Bracci, M. D. Contreras, S. Díaz-Madrigal, *Continuous Semigroups of Holomorphic Self-maps of the Unit Disc*. Springer Monographs in Mathematics, 566 pp., 2020.

Research Articles

- [1] F. Bracci, *Commuting holomorphic maps in strongly convex domains*, Annali della Scuola Normale Sup. di Pisa, Cl. di Sc. (4) 27 (1998), 1, 131-144.
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- [12] F. Bracci, *The dynamics of holomorphic maps near curves of fixed points*. Annali della Scuola Normale Sup. di Pisa, Cl. di Sci. (5) Vol. II (2003) 493-520.
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- [92] F. Bracci, L. Kosiński, W. Zwonek, *Holomorphic maps acting as Kobayashi isometries on a family of geodesics*, Math. Z. (2024) 308:20 <https://doi.org/10.1007/s00209-024-03569-7>
- [93] F. Bracci, D. Kraus, O. Roth, *The strong form of the Ahlfors–Schwarz lemma at the boundary*, Israel J. Math., to appear
- [94] F. Bracci, E. A. Gallardo-Gutiérrez, D. Yakubovich, *Complete frequencies for Koenigs domains*, J. Eur. Math. Soc, to appear
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Other publications

- [a] F. Bracci, *Fixed points of holomorphic mappings*, Tesi di Dottorato, Università di Padova. An extract is published on Boll. UMI Serie VIII, Vol. IV-A, (2001), 407-410.
- [b] F. Bracci, R. Tauraso, *Una introduzione agli operatori di composizione* (An introduction to composition operators, in Italian). Notes of the PhD course at Roma “Tor Vergata”.
- [c] F. Bracci, *Localization of characteristic classes and applications*. Notes of the PhD course given by Prof. Suwa at Università di Roma “Tor Vergata”.
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- [e] F. Bracci, *A note on indices theorems*. Proceedings del Symposium *Topological and geometrical methods of complex differential equations* a RIMS, Kyoto, 2004.
- [f] F. Bracci, *Discrete Structures and Linear Algebra*. Pag. 146. Notes for the online course “Informatica applicata” at Università di Urbino.
- [g] F. Bracci, S. Trapani, *Notes on pluripotential theory*. Notes of the PhD course at Università di Roma “Tor Vergata”, Rend. Mat. Appl., Serie VII, 27, (2007), 197-264.
- [h] F. Bracci, *Localizations, Partial holomorphic connections, the Atiyah bundle and the Camacho-Sad index theorem*, Proceedings of the RIMS Symposium *Geometry and Analysis on Complex algebraic varieties* RIMS, Kyoto, December 11-15, 2006.
- [i] F. Bracci, *Local Holomorphic Dynamics of Diffeomorphisms in dimension one*. Contemporary Mathematics 525, (2010), 1-42.
- [l] F. Bracci, *Teoria dei Fibrati* (Theory of fiber bundles, in Italian). Notes of the Master Course in Mathematics.
- [m] F. Bracci, *Pluricomplex Green function, pluricomplex Poisson kernel and applications*. Geometry Seminars. 2005–2009 (Italian), 2132, Univ. Stud. Bologna, Bologna, 2010.
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- [o] F. Bracci, *Parabolic attitude*, “Asymptotics in Dynamics, Geometry and PDE’s; Generalized Borel Summation”, proceedings of the conference held at CRM, Pisa, 12-16 ottobre 2009, O. Costin, F. Fauvet, F. Menous e D. Sauzin eds., CRM series, Pisa, Edizioni Della Normale 2010, to appear.

Editorial work

- [i] *Pluripotential theory*. Lectures from the Centro Internazionale Matematico Estivo (CIME) Session held in Cetraro, 2011. Edited by Filippo Bracci and John Erik Fornæss. Lecture Notes in Mathematics, 2075. Fondazione CIME/CIME Foundation Subseries. Springer, Heidelberg; Fondazione C.I.M.E.
- [ii] *Complex analysis and geometry*. Proceedings of the 10th Koren Conference on Several Complex Variables (KSCV10) held in Gyeongju, August 7-11, 2014. Edited by Filippo Bracci, Jisoo Byun, Hervé Gaussier, Kengo Hirachi, Kang-Tae Kim and Nikolay Shcherbina. Springer Proceedings in Mathematics and Statistics, 144. Springer
- [iii] *Geometric Function Theory in Higher Dimension* Editors: Bracci, Filippo (Ed.), Springer INDAM Series, 2017