

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, commi 1 e 4, della Legge n. 240/2010 per il settore concorsuale ANALISI MATEMATICA PROBABILITA' E STATISTICA MATEMATICA 01/A3, settore scientifico-disciplinare MAT/05 ANALISI MATEMATICA presso il Dipartimento di MATEMATICA, Codice concorso 5509

FILIPPO MORABITO CURRICULUM VITAE

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE GLI ELEMENTI CHE IL CANDIDATO RITIENE UTILI AI FINI DELLA VALUTAZIONE.

LE VOCI INSERITE NEL FACSIMILE SONO A TITOLO PURAMENTE ESEMPLIFICATIVO E POSSONO ESSERE SOSTITUITE, MODIFICATE O INTEGRATE)

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MORABITO
NOME	FILIPPO
DATA DI NASCITA	

PROFESSORE ASSOCIATO DI MATEMATICA PRESSO L'ALMA MATER STUDIORUM UNIVERSITA' DI BOLOGNA, SETTORE CONCURSALE MAT 01/A3 DAL 20/09/2021 AL 06/10/2022.

TITOLI

TITOLO DI STUDIO

(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)

LAUREA IN MATEMATICA, UNIVERSITA' DI PISA, 26 FEBBRAIO 2004.
LAUREA IN INGEGNERIA ELETTRONICA, UNIVERSITA' MEDITERRANEA DI REGGIO CALABRIA, 27 APRILE 2001.

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

(inserire titolo, ente, data di conseguimento, ecc.)

DOTTORE DI RICERCA IN MATEMATICA, UNIVERSITA' ROMA TRE e UNIVERSITE' PARIS EST MARNE-LA-VALLÉE (tesi in cotutela), 28 MAGGIO 2008.

ALTRI TITOLI CONSEGUITI

(inserire titolo, ente, data di conseguimento, ecc.)

Omologazione del titolo di Dottore di Ricerca in Matematica da parte dell'Universita' Complutense di Madrid, 24 settembre 2010.

ATTIVITÀ DIDATTICA

INSEGNAMENTI E MODULI

(inserire periodo [gg/mm/aa inizio e fine], anno accademico, corso laurea, numero di ore frontali, eventuale CFU)

Universite' Paris Est Marne-la-Vallee (in french)

2007/08, Linear Algebra, Analysis 2, Calculus and integration;

2008/09, Calculus in Banach spaces, Introduction to mathematical thinking, Linear Algebra.

Korea University (for Engineering, Economics, Mathematics, Physics, Chemistry, Biology students) in english, 45 hours courses

2012, Fall semester: Calculus I, Differential Geometry (Graduate and Doctoral students);

2013, Spring semester: Ordinary differential equations, Riemannian Geometry (Graduate and Doctoral students).

At KAIST (for Engineering, Mathematics, Chemistry, Physics, Biology students) in english, 45 hours courses

2013, Fall semester: Combinatorial Topology, Complex Function Theory (Graduate);

2014, Spring semester: Calculus I, Riemannian Geometry (Graduate and Doctoral students);

2014, Fall semester: Calculus II, Differential Geometry (Graduate);

2015, Spring semester: Calculus I, Analysis on Manifolds;

2015, Summer semester: Individual study course;

2015, Fall semester: Differential Geometry (Graduate);

2016, Spring semester: Matrix Groups, Riemannian Geometry (Graduate and Doctoral students);

2016, Summer semester: Individual study course;

2016, Fall semester: Differential Geometry (Graduate);

2017, Spring semester: Calculus I, Analysis on Manifolds;

2017, Fall semester: Differential Geometry (Graduate);

2018, Spring semester: Differential Equations and Applications;

2018, Fall semester: Introduction to Differential Geometry, Differential Geometry (Graduate);

2018, Winter semester: Individual study course;

2019, Spring semester: Differential Equations and Applications;

2020, Fall semester: Calculus II, Introduction to Differential Geometry;

2021, Spring semester: Riemannian Geometry (Graduate and Doctoral students).

Alma Mater Studiorum Universita' di Bologna (for Computer Science students)

2021, Fall semester: Mathematical Analysis 1;

2022, Spring semester: Mathematical Analysis 2 (module 2).

ATTIVITÀ DI DIDATTICA INTEGRATIVA E DI SERVIZIO AGLI STUDENTI

ATTIVITÀ DI RELATORE DI ELABORATI DI LAUREA, DI TESI DI LAUREA MAGISTRALE, DI TESI DI DOTTORATO E DI TESI DI SPECIALIZZAZIONE

(inserire numero. anno accademico, ateneo, corso laurea, ecc.)

Relatore di una tesi (Gauss Curvature Flow) per Master's Degree in Matematica (Laurea Magistrale), Agosto 2017, KAIST.
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ATTIVITÀ DI TUTORATO DEGLI STUDENTI DI CORSI DI LAUREA E DI LAUREA MAGISTRALE E DI TUTORATO DI DOTTORANDI DI RICERCA

(inserire anno accademico, corso laurea, ecc.)

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SEMINARI

(inserire titolo del seminario, luogo, data, ecc.)

1. Introduction to Minimal Surfaces, July 2021, University of Nottingham Ningbo, Ningbo, China.
2. Introduction to Riemannian Geometry and Ricci flow, February - April 2021, School of Computing, KAIST, Daejeon, Korea.
3. Minimal surfaces in H^3 , February 2020, ICTP, Trieste, Italy.
4. Two overdetermined boundary value problems with non-constant Neumann condition on exterior domains in R^3 , July 2018, KIAS, Seoul, Korea.
5. Periodic minimal surfaces embedded in R^3 derived from the singly periodic Scherk minimal surface, June 2017, PDE's Seminar, KAIST, Daejeon, Korea.
6. Extremal domains for the first eigenvalue in a general compact Riemannian manifold, December 2016, Geometry Workshop, Yong Pyong, Korea.
7. Symmetry breaking bifurcations for an overdetermined problem on an exterior domain, November 2016, PDE's Seminar, KAIST, Daejeon, Korea.
8. An overdetermined problem on an exterior domain, July 2016, KIAS, Seoul, Korea.
9. Higher genus capillary surfaces in the unit ball of R^3 , November 2014, KIAS, Seoul, Korea.
10. Costa-Hoffman-Meeks surfaces, November 2014, KIAS, Seoul, Korea.
11. Splitting Theorems, Symmetry Results and Overdetermined Problems for Riemannian Manifolds, April 2014, KIAS, Seoul, Korea.
12. From constant mean curvature surfaces to overdetermined elliptic problems, March 2014, Colloquium, Dept. Mathematical Sciences, KAIST, Daejeon, Korea.
13. From Constant mean curvature surfaces to overdetermined elliptic problems, March 2014, Geometry Seminar, Pusan University, Pusan, Korea.
14. Higher genus capillary surfaces in a unit ball of R^3 , October 2013, Colloquium, Dept. Mathematical Sciences, KAIST, Daejeon, South Korea.
15. Delaunay type domains for an overdetermined elliptic problem, April 2013, KIAS, Seoul, South Korea.
16. Overdetermined problems in Riemannian manifolds, February 2013, KAIST, Daejeon, South Korea.
17. Construction of minimal surfaces in riemannian manifolds, October 2012, University of Laval, Quebec, Canada.
18. Construction of minimal surfaces in riemannian manifolds, August 2012, University of Surrey, Guildford, United Kingdom.
19. Gluing technique in minimal surfaces theory, July 2011, Geometry seminar, Korea Institute for Advanced Study, Seoul, Korea.
20. Higher genus minimal surfaces in R^3 with infinitely many parallel planar ends, May 2011, Differential Geometry Workshop, Ewha Woman's University, Seoul, Korea.
21. Classification of rotational special Weingarten surfaces of minimal type in $H^2 \times R$ and $S^2 \times R$, November 2010, Geometry seminar, Korea Institute for Advanced Study, Seoul, Korea.
22. Construction of new examples of minimal surfaces in R^3 with infinitely many horizontal planar ends, November 2010, Instituto de Matematica Pura e Aplicada, Rio de Janeiro, Brazil.
23. New examples of minimal surfaces in $H^2 \times R$, October 2010, Geometry seminar, Korea Institute for Advanced Study, Seoul, Korea.
24. On a family of complete embedded minimal surfaces in R^3 with infinitely many horizontal planar ends, July 2010, 5th Workshop of Differential Geometry, Korea Institute for Advanced Study, Seoul, Korea.
25. Saddle towers dans $H^2 \times R$, May 2010, Seminaire de Geometrie, Institut de Mathematiques de Jussieu, Paris.
26. Saddle towers dans $H^2 \times R$, February 2010, Seminaire de Geometrie, Laboratoire de Mathematiques et Physique Theorique, Universite de Tours, France.
27. Index and Nullity of the Gauss map of the Costa-Hoffman-Meeks surface, May 2008, Giornate di Geometria Algebrica e argomenti correlati, Levico Terme, Italy.
28. Surfaces of Costa-Hoffman-Meeks type in the space $H^2 \times R$, May 2008, Geometry Seminar, Departamento de Geometria y Topologia of the University of Granada, Spain.
29. Surfaces de type Costa-Hoffman-Meeks dans l'espace $H^2 \times R$, January 2008, Seminaire de Geometrie, Institut de Mathematiques de Jussieu, Paris.

ATTIVITÀ DI RICERCA SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

Pubblicazioni da valutare

1. Saddle Towers and minimal k -noids in $H^2 \times R$ (with M. M. Rodriguez), *Journal de l'Institut de Mathematiques de Jussieu*, vol. 11 (2), 2012, 333-349. ISSN:1474-7480 (Print)
2. Non-periodic Riemann examples with handles, (with M. Traizet), *Advances in Mathematics*, 229, 2012, 26-53. Print ISSN: 0001-8708
3. Radial and non-radial solutions to an elliptic problem on annular domains in Riemannian manifolds with radial symmetry, *Journal of Differential Equations*, 258, 1461-1493, 2015. Print ISSN: 0022-0396
4. Delaunay type domains for an overdetermined elliptic problem in $S^n \times R$ and $H^n \times R$, (with P. Sicbaldi), *ESAIM Control, Optimisation and Calculus of Variations*, 22, n. 1, 1-28, 2016. eISSN: 1262-3377
5. Free boundary surfaces and saddle tower minimal surfaces in $S^2 \times R$, *Journal of Mathematical Analysis and Applications*, 443, 478-525, 2016. Print ISSN: 0022-247X
6. Asymptotically radial solutions to an elliptic problem on expanding annular domains in Riemannian manifolds with radial symmetry, *Boundary Value Problems*, 124, 2016. ISSN: 1687-2770 (electronic)
7. Symmetry breaking bifurcations for an overdetermined boundary value problem on an exterior domain issued from electrodynamics, *Nonlinear Analysis*, 158, 1-22, 2017. Online ISSN: 1873-5215
8. Towering phenomena for the Yamabe equation on symmetric manifolds, (with A. Pistoia, G. Vaira), *Potential Analysis*, 47, n. 1, 53-102, 2017. Electronic ISSN 1572-929X
9. Singly periodic free boundary minimal surfaces in a solid cylinder of $H^2 \times R$, *Nonlinear Analysis*, 171, 208-237, 2018. Online ISSN: 1873-5215
10. Symmetry breaking bifurcations for two overdetermined boundary value problems with non-constant Neumann condition on exterior domains in R^3 , *Communications in Partial Differential Equations*, 46, 6, 1137-1161, 2021. Online ISSN: 1532-4133
11. Serrin's Overdetermined Problem on $S^N \times R$, *Journal of Geometric Analysis*, 33, art. 327, 2023. Electronic ISSN 1559-002X
12. A Smooth 1-Parameter Family of Delaunay-Type Domains for an Overdetermined Elliptic Problem in $S^N \times R$ and $H^N \times R$, (with G. Dai, P. Sicbaldi), *Potential Analysis*, published online, 2023. Electronic ISSN 1572-929X

RESTANTI PUBBLICAZIONI

- Index and nullity of the Gauss map of the Costa-Hoffman-Meeks surfaces, *Indiana University Mathematics Journal*, Vol. 58, 2, 2009, 677-707. ISSN 0022-2518
- About a family of deformations of the Costa-Hoffman-Meeks surfaces, *Bulletin of the Brazilian Mathematical Society*, Vol. 40(3), 2009, 433-454. Electronic ISSN 1678-7714
- An end-to-end construction for singly periodic minimal surfaces (with L. Hauswirth and M. M. Rodriguez), *Pacific Journal of Mathematics*, Vol. 241, No. 1, 2009, 1-61. ISSN: 1945-5844 (e-only)
- A Costa-Hoffman-Meeks type surface in $H^2 \times R$, *Transactions of the American Mathematical Society*, Vol. 363, No. 1, 2011, 1-36. ISSN 1088-6850 (online)
- Classification of special rotational Weingarten surfaces of minimal type in $S^2 \times R$ and $H^2 \times R$ (with M. M. Rodriguez), *Mathematische Zeitschrift*, 273, 379-399, 2013. Electronic ISSN 1432-1823
- Height estimate for special Weingarten surfaces in $M^2(c) \times R$, *Proceedings of the American Mathematical Society*, Series B, 1, 14-22, 2014. ISSN 2330-1511
- Higher genus capillary surfaces in the unit ball of R^3 , *Boundary Value Problems*, 130, 2014. ISSN: 1687-2770 (electronic)
- Singly periodic free boundary minimal surfaces in a solid cylinder of R^3 , *Discrete Continuous Dynamical Systems*, Series A, 35, n. 10, 4987-5001, 2015. eISSN 1553-5231

- Bounded and unbounded capillary surfaces derived from the catenoid, Discrete Continuous Dynamical Systems, Series A, 38 n.2, 589-614, 2018. eISSN 1553-5231
- Periodic minimal surfaces embedded in \mathbb{R}^3 derived from the singly periodic Scherk minimal surface, Communications in Contemporary Mathematics, 22, 1, 2020, 1850075. ISSN (online): 1793-6683

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI CENTRI O GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI O PARTECIPAZIONE AGLI STESSI

(per ciascuna voce inserire anno, ruolo, gruppo di ricerca, ecc.)

Principal Investigator for the project: Overdetermined boundary value problems in Riemannian manifolds, funded by National Research Foundation (South Korea), 55.000 euro, 2013-2016.
Principal Investigator for the project: Overdetermined boundary value problems in Riemannian manifolds, funded by National Research Foundation (South Korea), 53.000 euro, 2016-2019.

ATTIVITÀ QUALI LA DIREZIONE O LA PARTECIPAZIONE A COMITATI EDITORIALI DI RIVISTE SCIENTIFICHE

(per ciascuna voce inserire anno, ruolo, rivista scientifica, ecc.)

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TITOLARITÀ DI BREVETTI

(per ciascun brevetto, inserire autori, titolo, tipologia, numero brevetto, ecc.)

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PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA

(inserire premio, data, ente organizzatore, ecc.)

<p>Excellent paper award, College of Science, KAIST, South Korea, December 2014. Excellent paper award, College of Science, KAIST, South Korea, December 2015.</p>
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PARTECIPAZIONE IN QUALITÀ DI RELATORE A CONGRESSI E CONVEGNI DI INTERESSE INTERNAZIONALE

(inserire titolo congresso/convegno, data, ecc.)

1. Asymptotically radial solutions to an elliptic problem on expanding annular domains in Riemannian manifolds with radial symmetry, July 2018, 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Taipei, Taiwan.
2. Delaunay type domain for an overdetermined elliptic problem in $H^n \times \mathbb{R}$ and $S^n \times \mathbb{R}$, November 2017, 2nd Pan Pacific International Conference on Topology and Applications, Busan, South Korea.
3. Introduction to minimal surfaces theory, December 2016, Symposium Korea-Italy on Mathematics, KAST and Accademia dei Lincei, KIAS, Seoul, Korea.
4. Capillary and free boundary surfaces obtained by deformation of minimal surfaces, Asymptotic problems: elliptic and parabolic issues, June 2015, Vilnius, Lithuania.
5. Delaunay type domains for an overdetermined elliptic problem, October 2013, Annual meeting of Korean Mathematical Society, Seoul, Korea.
6. Non-periodic Riemann type surfaces with handles, October 2012, Annual meeting of Korean Mathematical Society, Daejeon, Korea.

7. Surfaces of Costa-Hoffman-Meeks type in $H^2 \times \mathbb{R}$, September 2011, Summer school in Partial Differential Equations, Caputh, Germany.
8. Surfaces of Costa-Hoffman-Meeks type in the space $H^2 \times \mathbb{R}$, September 2009, Workshop de Jovenes Investigadores, Facultad de Matematicas, Universidad Complutense de Madrid, Spain.

ATTIVITÀ GESTIONALI, ORGANIZZATIVE E DI SERVIZIO

INCARICHI DI GESTIONE E AD IMPEGNI ASSUNTI IN ORGANI COLLEGIALI E COMMISSIONI, PRESSO RILEVANTI ENTI PUBBLICI E PRIVATI E ORGANIZZAZIONI SCIENTIFICHE E CULTURALI, OVVERO PRESSO L'ATENEO O ALTRI ATENEI

(inserire incarico/impegno, ente, data, ecc.)

Redazione e correzione di vari test di ammissione al corso di PhD in Matematica e Master (Laurea Magistrale) in Matematica presso il KAIST.

Membro commissione per l'esame finale per il conferimento del titolo di Dottore di Ricerca in Matematica presso il KAIST.

ATTIVITÀ CLINICO ASSISTENZIALI

(indicare, data, durata, ruolo, ente presso il quale si è prestata attività assistenziale, ecc.)

Data

11 aprile 2024

Luogo

ROMA