



Costanza Conti

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🌐 Website: <https://www.unifi.it/p-doc2-2013-200006-C-3f2a3d3034292c-0.html>

Nationality: Italian

WORK EXPERIENCE

[08/01/2023 – Current]

Scientific Attachèe, Italian Embassy in Ottawa, Canada

Ministero degli Affari Esteri e della Cooperazione Internazionale

City: Ottawa

Country: Canada

Promozione della Scienza e della tecnologia Italiana in Canada

[31/10/2005 – Current]

Professor of Numerical Analysis

Università di Firenze

City: Firenze

Professor of Numerical Analysis

[30/06/2021 – Current]

C.N.R. Associated

Adjunct researcher at I.A.C.- Napoli

[2020 – Current]

Adjunct Professor at the University of Houston, USA

Collaborazione scientifica e di supervisione studenti con il Prof. Demetrio Labate

[31/10/2021 – Current]

General Secretary, IMACS, Belgium

General Secretary of the International Association of Mathematics and Computer in Simulation

[31/07/2012 – 31/08/2012]

Visiting at Università della Svizzera Italiana, Switzerland

Attività di ricerca con Kai Hormann

[29/09/1999 – 28/10/2005]

Researcher (Confirmed)

University of Florence

City: Firenze

Country: Italy

Researcher or Assistant professor in Numerical Analysis

[30/04/2004 – 31/05/2004]

Visiting at Institut National de Sciences Appliquées, Toulouse, France

Attività di ricerca con Christophe Rabut

[31/07/2001 – 31/08/2001]

Fellows at Tel Aviv University, Israel

School of Mathematical Science, Attività di ricerca con Nira Dyn

[1998 – 2000]

Post-Doc at University of Florence, Italy

University of Florence, Engineering Faculty

City: Florence

Country: Italy

Research activity under the supervision of Prof. Rossana Morandi

[30/09/1988 – 28/02/1999]

Post Doc. at University of Hoheheim

C.N.R. borsa per l'estero n. 203.01.68

City: Stuttgart

Country: Germany

Attività di ricerca sotto la direzione del Prof. Kurt Jetter

[1996 – 1997]

Fellow at Institut National de Sciences Appliquées, Toulouse, France

C.N.R. Short Term Fellowships C.N.R. protocollo 007413

Attività di ricerca sotto la direzione del Prof. Christophe, Rabut

[1992 – 1997]

Mathematics teacher secondary school

Provveditorato agli Studi di Firenze

City: Firenze

Country: Italy

On leave for Ph.D.

[1995 – 1996]

Fellow at Institut National de Sciences Appliquées, Toulouse, France

City: Toulouse

Country: France

Attività di ricerca sotto la direzione del Prof. Christophe Rabut

[31/08/1994 – 30/09/1994]

Fellow at Institut National de Sciences Appliquées, Toulouse, France

INSA, France

Attività di ricerca con il Prof. Christophe Rabut per lavoro di Tesi Ph.D.

[1990 – 1992]

C.N.R. fellow grant 12 months (borsa CNR per laureati 12 mesi)

C.N.R. bando 201.01.113 at Dipartimento di Energetica, University of Florence

City: Florence

Country: Italy

[1989 – 1991]

C.N.R. fellow grant 12 months (borse CNR per laureandi)

C.N.R. bando n 209.01.52 Dipartimento di Energetica, Firenze

[30/06/1990 – 14/07/1990]

Borsa di studio per "Scuola Estiva di Elaborazione Vettoriale e Parallela"

CINECA, Bologna, Italia;

Acquisizione competenze per calcolo parallelo. Uso del FORTRAN in ambiente di calcolo parallelo

LANGUAGE SKILLS

Mother tongue(s): Italiano

Other language(s):

Inglese (C1)

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

EDUCATION AND TRAINING

[23/09/2022 – Current]

National Scientific Habilitation, Full Professor of Numerical Analysis

Ministero dell' Università e della Ricerca

[28/03/2017 – Current]

National Scientific Habilitation, Full Professor of Numerical Analysis

[1992 – 1997]

Ph.D. in Applied Mathematics and Computer Science (Italian denomination: Matematica Applicata e Informatica)

University of Naples Federico II, Italy

[1993 – 1994]

DEA (Diplôme d' Études Approfondies)

Ecole Doctorale de Mathematique, Université Paul Sabatier, Toulouse III, France;

[1983 – 1990]

Batchelor and Master in Mathematics cum Laude (Italian Laurea 4 years program)

University of Firenze

PUBLICATIONS

Author and co-author of more than 80 publications of international journals

Indices: **Google Scholar** -Citazioni 1389, IndiceH 22, i10-index 38, **Scopus**- Citazioni 885, IndiceH 19

For the complete list please visit SCOPUS (<https://www.scopus.com/authid/detail.uri?authorId=7202440520>) or FLORE (<https://www.unifi.it/p-doc2-2013-200006-C-3f2a3d3034292c-0.html>)

DIGITAL SKILLS

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) | GoogleChrome | InternetExplorer | Conoscenza e uso di piattaforme per la didattica a distanza | Utilizzo di piattaforme per videoconferenze

COMMUNICATION AND INTERPERSONAL SKILLS

Communication skills

Marked teaching-descriptive skills developed through the experience of numerous presentations at conferences and meetings as well as many years of teaching activity

Excellent ability to support the development of personal skills and abilities, acquired through decades of teaching and supervision of university students.

Strong ability to adapt to international and multicultural environments and contexts, acquired while working abroad and with colleagues from different foreign countries.

Excellent group communication skills acquired during a long educational service in the Agesci and the GCM sports association in Florence, Italy.

Organizational and management skills

Skills and experience in managing teams of researchers and collaborators. Skills and experience in supervising students.

Experience in the management of the processes connected with internationalization acquired as the Department referent for *Internationalization and International Cooperation*.

CONFERENCES AND SEMINARS

[1999 – 2021] Plenary or Invited lecturer at International Conferences

- International Conference on Mathematical And Computational Modelling, Approximation, And Simulation MACMAS, Torino, May 29th– June 1st, 2023 (plenary talk)
- MAIA 2022, Fuldata, Germany, September 26 to 30, 2022 (invited talk)
- Exponential Analysis: Theoretical Progress and Technological Innovation, Dagstuhl Germany, (invited talk) May 29 -June 3, 2022;
- The 10th Intern. Conf. on Curves and Surfaces, Arcachon, France, June 20-24th 2022 (invited mini-symposium organizer);
- International Conference on Mathematical Science, Bahawalpur, India, 28-29 March 2022 (plenary talk)
- Phase Transitions in Particle Physics, Galileo Galilei Institute Firenze, Italy March 28-April 1st 2022.
- Multivariate Approximation, and Geometric Modeling - MAGN 2021 November 30– December 1, 2021 (plenary talk)
- D2 Seminar Series, Florence Center for Data Science, (invited talk), 2 Luglio 2021
- Applied matrix positivity, International Centre for Mathematical Sciences, Edinburgh, UK, 19-23 Jul 2021, (invited talk) ;
- SAT2019, INSA Rennes, November, 21-22, 2019 (plenary talk) ;
- MAIA2019 ESI-Workshop, Wien, August 26-31, 2019, (invited talk) ;
- Approximation Theory (AT16), Vanderbilt University May 19-22, 2019, (plenary talk);
- Mathematical Challenges of Structured Function Systems, ESI Workshop, Wien, Austria, 19-23 March 2018 (invited talk) ;
- Twenty years of biomedical imaging and splines, EPFL, Lausanne, Switzerland; March 23, 2018 (invited talk) ;
- News trends and open problems in subdivision and appl., Hangzhou Dianzi University, China, December 15-16, 2016 (plenary talk) ;
- International Conference on Multivariate Approximation, Schloss Rauischholzhausen, Germany March 31- April 5, 2016, (invited talk);
- 4th Dolomites Workshop on Constructive Approximation and Applications (DWCAA16), Alba di Canazei, Trento, Italy 8-13 Settembre, 2016, (plenary talk);
- MAIA2013, Erice 25–30, September, 2013, (plenary talk);
- Eighth International Conference on Mathematical Methods for Curves and Surfaces, Oslo, Norway, June 28–July 3, 2012 (invited mini-symposium organizer);
- New Trends in Subdivision and Related Applications, Milano, Italy, September 4-7, 2012, (plenary talk);

- New Trends in Approximation Theory, Ein-Gedi, Israel, January 4-7, 2012, (plenary talk);
- Applied Harmonic Analysis and Multiscale Computing, Edmonton, Canada July 25-28, 2011, (invited talk);
- MAIA2010, Edinburgh 6-10 September 2010, (plenary talk);
- 7-th Intern. Conf. on Multivariate Approximation, Bommerholz, Germany September 22-26, 2008, (plenary talk);
- MAIA07, Alesund, Norway, August 22-26, 2007, (plenary talk) ;
- Colloquium in honor of Kurt Jetter, Hohenheim, March 23-24, 2007, (plenary talk);
- MAIA2004, Hohenheim, Germany, October, 13-17, 2004,(plenary talk);
- Third Inter. Conf. Multivariate Approximation: Theory and Applications, Cancun, Mexico, April 24-29, 2003, (plenary talk);
- Modelisation Geometrique et Approximation, CIRM, Luminy, France, May 2-5, 2000, (invited talk).

INVITED RESEARCH VISITS (Since 2009)

- August 2022, Universitat de Valencia, Spain. Inviting Prof. Pep Mulet Mestre;
- January 2019, Tel Aviv University, Israel. Inviting Prof. Nira Dyn
- January 2017, University of Wien, Wien, Austria. Inviting Prof. Maria Charina
- December 2016, School of Science, Hangzhou Dianzi University, Hangzhou, China. Inviting Prof. Chongyang Deng;
- November 2016, University of Wien, Wien, Austria. Inviting Professor: Maria Charina
- February 2015 Ecole Polytechnique Federale de Lausanne (EPFL) Lausanne, Switzerland. Inviting Prof. Michael Unser
- January 2015 Institut National des Sciences Appliquées (INSA) Rennes, France, Inviting Prof. Jean Louis Merrien
- November 2015, NUHAG, University of Wien, Austria. Inviting Professor: Karlheinz Groechnig
- September 2014, Faculty of Informatics University of Lugano, Switzerland. Inviting Prof. Kai Hormann
- January 2014, University of Eichstadt, Germany. Inviting Professor: Maria Charina
- November 2013, University of Passau, Germany. Inviting Professor: Tomas Sauer
- July 2009, Institut für Angewandte Mathematik und Statistik, Universität Hohenheim, Germany, Inviting Prof. Kurt Jetter
- Febbraio 21-27, 2009, Tel Aviv University. Professore invitante: Nira Dyn.

ORGANISATIONAL SKILLS

Organization of Conferences and Workshops

- International Conference on Approximation Theory and Applications, Cetraro (Italy), June 18-22, 2023
- SMART22, Third Conference on Subdivision, Geometric and Algebraic Methods, Isogeometric Analysis and Refinability in Italy, 20-24 September 2022
- 21st IMACS WORLD CONGRESS, Consiglio Nazionale delle Ricerche, Rome, Italy, October 6-9, 2022
- ATMA2021, Approximation Theory Methods, and Applications, Reggio Calabria, November 5-7, 2021
- OSNA², 2021, Online Seminars On. Numerical Approximation and Applications, April 9, 12, 20, and 28, 2021
- OSNA², 2020, Online Seminars On Numerical Approximation and Applications, Nov. 9, 17, 25, Dec. 3, 2020
- 5th IM-Workshop on "Applied Approximation, Signals, and Images", Bernried, Germany, February 24--28, 2020,

-MATA2020, Multivariate Approximation: Theory and Applications Perugia, January 16-18, 2020,
 -4th IM-Workshop on "Applied Approximation, Signals, and Images", Bernried, Germany, March 4--8, 2019,
 -MASCOT 2018, 15th Meeting on Applied Scientific Computing and Tools Grid Generation, Approximation and Visualization, Engineering Faculty, Rome, Italy, 2--5 October 2018.
 -3rd IM-Workshop on "Applied Approximation, Signals and Images", Bernried, Germany, February 19-23, 2018
 -Second Conference on Subdivision, Geometric and Algebraic Methods, Isogeometric Analysis and Refinability in Italy SMART2017, Gaeta, Italy, September 17-21, 2017
 -2nd IM-Workshop on Applied Approximation, Signals and Images, Bernried, Germany, February 27-March 3, 2017
 -Multivariate Approximation and Interpolation with Applications, MAIA 2016, Luminy, France, September 18-23, 2016
 -IM-Workshop on Applied Approximation, Signals, and Images, Bernried, Germany, February 29- March 4, 2016
 -Workshop on Subdivision, Refinability, Signals, and Approximation Bernried, Germany, March 2-6, 2015
 -SMART2014, 1st International Conference on Subdivision; Geometric and Algebraic Methods; Isogeometric Analysis and Refinability in Tuscany, September 28-October 1, 2014, Pontignano, Siena, Italy
 -International Research Workshop Subdivision and Refinability, Pontignano, Siena, Italy, September 15-19, 2011
 -International INdAM Meeting: New Frontiers in CAGD, Bertinoro, Forlì-Cesena, May 17-21, 2010
 -International Research Workshop Subdivision and Refinability, Pontignano, Siena, Italy, October 12-15, 2009
 -International Workshop Subdivision and Refinability, Pontignano, Siena, Italy, May 1-4, 2008
 -MASCOT04, 4th Meeting on Applied Scientific Computing and Tools, Firenze, Italy, November 25-27, 2004

Summer School Organization

European Mathematical Society Summer School on Subdivision Schemes in Geometric Modelling: Theory and Applications, Pontignano, Siena, Italy, June 25th- July 2nd, 2005 (con N. Dyn, L. Kobbelt, R. Morandi, M. Sabin, P. Schroder).

Minisimposia and Special sessions organization

- Special Session: Multivariate approximation: numerical modeling and application, 21st IMACS WORLD CONGRESS, ROME, Italy, September 11- 15, 2023 (con E. Francomano and S. De Marchi)
- Special Session: Numerical Methods in Function and Data Approximation, MASCOT 2018, 15th Meeting on Applied Scientific Computing and Tools Grid Generation, Approximation and Visualization, Engineering Faculty, San Pietro in Vincoli, Rome, Italy, 2d October –5th October 2018 (con L. Romani).
- Mini-symposium: Interpolation and Approximation Methods in Imaging, SIAM Conference on IMAGING SCIENCE June 5-8, 2018 Bologna - Italy, (con A. De Rossi e F. Dell'Accio).
- Mini-workshop: News trends and open problems in Subdivision and its applications", Hangzhou Dianzi Univerisity, Hangzhou, China, December 15-16, 2016. (con C. Deng).
- Special session: Wavelet-based and subdivision-based multiresolution data representations, IMACS 2016 World Congress, Xiamen, China, 10-14 December 2016 (con C. Deng e L. Romani).
- Special session: Subdivision, refinability, and multiscale methods, MASCOT 2015, June 9-12, Roma, Italy, 2015 (con F. Pitolli).
- Mini-symposium: Mathematics and CAGD: interactions and intersections, ECMI 2014 The 18th European Conference on Mathematics for Industry, Taormina 9–13 June 2014, (con L. Romani).

- Session: Subdivision schemes, 3rd Dolomites Workshop on Constructive Approximation and Applications (DWCAA12), Alba di Canazei, Trento, Italy, Sept. 9-14, 2012, (con M. Floater).
- Mini-symposium: Linear Algebra in Curves and Surfaces Modeling, 16th ILAS Conference, June 21-25 Pisa, Italy, 2010, (con C. Manni).

PROJECTS

Responsibility for Scientific Projects and Special Assignments

-PRIN2022-Progetto di Ricerca "Approximation Methods for Data processing, Analysis and REpresentation (AIM4DARERS)". Responsabile di Unità Operativa, PI Lucia Romani, Università di Bologna, 2022 (in fase di valutazione). Responsabili Unità: Conti, Cotronei, PI L. Romani.

-Progetto DiDiCo – Didattica Digitale Complementare, Regione Toscana POR FSE 2014-2020, MatLab Base edizione 1, aggiornamento Insegnanti, 2022;

-Progetto DiDiCo – Didattica Digitale Complementare, Regione Toscana POR FSE 2014-2020, MatLab Base edizione 2, aggiornamento Insegnanti, 2022;

-GNCS-Research Project: Metodi di approssimazione data-driven per dati esatti e perturbati, Partecipanti: De Marchi, Bruni, Romani, Pellegrino, Vitulano, Beccari, Cotronei, Cuomo, Campagna, Santin, Maponi, Ramella, 2022

-P.O.N. Action 10. 2.2. (sub-action 10. 2.2.A. competenze di base) "MATEMATICA PER IL CITTADINO", I.C. LE CURE, 2017.

-GNCS-Research Project: "Frames, Subdivision Frames e Trasformata Hough per applicazioni alle immagini biomediche". Partecipanti: CONTI, PITOLLI, ROMANI, ROSSINI, SCHENONE, VISCARDI, 2015.

-GNCS-Research Project: "Avanzamenti teorici, metodi computazionali e nuove applicazioni per interpolanti ed approssimanti in spazi di spline generalizzate." Partecipanti: ANTONELLI, BECCARI, CASCIOLA, CONTI, ROMANI, 2014

-GNCS-Research Project: "New Trends in Subdivision". Partecipanti: BECCARI, CONTI, GEMIGNANI, GUGLIELMI, ROMANI, ROSSINI, 2013.

-RIP-Research in Pairs Program: March 24-April 6, 2013, Mathematisches Forschungsinstitut Oberwolfach, Partecipanti Maria Charina (University of Dortmund, Germania) e Vladimir Protasov (Moscow State University, Russia).

-UNIFI-Research Project: "Nuovi orizzonti dei metodi di suddivisione". Partecipanti: CONTI, MORANDI, 2012.

-UNIFI-Research Project: "Tecniche innovative per la costruzione di curve e superfici interpolanti ed approssimanti" (continuazione). Partecipanti: CONTI, MORANDI, 2011.

-GNCS-Research Project: "Schemi di suddivisione scalari e vettoriali: teoria e applicazioni". Partecipanti: BECCARI, CONTI, COTRONEI, GEMIGNANI, ROMANI, ROSSINI, 2011. -UNIFI-Research project: "Tecniche innovative per la costruzione di curve e superfici interpolanti ed approssimanti". Partecipanti: CONTI, MORANDI, 2010.

-6th Framework Programme on Research, Technological Development, and Demonstration: MARIE CURIE CONFERENCES AND TRAINING COURSE (SCF/LCF). EMS Summer School "Subdivision Schemes in Geometric Modelling: Theory and Applications", (con N. Dyn, L. Kobbelt, R. Morandi, M. Sabin), 2005

-PRIN 2003: "Basi opportune ed algoritmi efficienti per interpolare, quasi-interpolare ed approssimare dati nel piano e nello spazio", Coordinatore Laura Gori

-VIGONI Program: "Bivariate non-tensor Multiscale Analysis and Application", Università di Firenze, Italy-Università di Hohenheim, Germany, 2002.

-VIGONI Program: "Bivariate non-tensor Multiscale Analysis and Application", Università di Firenze, Italy-Università di Hohenheim, Germany, 2001.

[Current] Research Activity

Research activities in Applied Mathematics in particular in the fields: Geometric and Mathematical Modeling; Computer-Aided Geometric Design (CAGD); Approximation

theory; Approximation theory in artificial intelligence; Wavelet and frame method; Mathematical methods in image and signal processing; Spline and application to data analysis; Generation of numerical grid.

[01/01/1995 – Current] **Organization of visits of researchers from foreign countries**

- Demetrio Labate, University of Huston, USA, 8-18 Dicembre 2022
- Sergio Lòpez-Ureña, Universitat de València, Spain, Settembre-Dicembre 2021
- Annie Cuyt, Universit t Antwerpen, Belgium, 15-30 Ottobre 2021
- Wen-shin Lee, University of Stirling, Scotland, UK, 13-30 Ottobre 2021
- Demetrio Labate, University of Houston, USA, Giugno 2018
- Jean Louis Merrien, INSA, Rennes, France, 20-29 Gennaio 2017
- Ole Christensen, Department of Applied Mathematics and Computer Science Mathematics, Denmark, November 2016
- Maria Charina, University of Vienna, Austria, Ottobre 2015
- Nira Dyn, Tel Aviv University, Israel, Settembre 2015
- Maria Charina, University of Vienna, Austria, Settembre 2014
- Yoon Jungho, Department of Mathematics, Ewha Women's University Seoul, Giugno 2014
- Yoon Jungho, Department of Mathematics, Ewha Women's University Seoul, December 2013
- Vladimir Protasov, Moscow State University, Moscow, Russia, December 2013
- Micheal Unser, EPFL, Switzerland, Giugno 2013
- Nira Dyn, Tel Aviv University, Israel, Settembre 2012
- Jean Louis Merrien, INSA, Rennes, France, Gennaio 2012
- Maria Charina, Institut f r Angewandte Mathematik, Universit t Dortmund, Ottobre 2012
- Vladimir Protasov, Moscow State University, Moscow, Russia, Ottobre 2012
- Maria Charina, Institut f r Angewandte Mathematik, Universit t Dortmund, Dicembre 2011
- Nira Dyn, (Sabbatical Leave), Tel Aviv University, Israel, Ottobre-Dicembre 2010
- Kai Hormann, Faculty of Informatics, Universit  della Svizzera Italiana, Maggio 2009
- Tomas Sauer, Lehrstuhl f r Numerische Mathematik, Justus-Liebig Universit t Giessen, Germany, Dicembre 2008
- Kurt Jetter (permanenza presso le unit  amministrative di studiosi stranieri di chiara fama),
Institut f r Angewandte Mathematik und Statistik Universit t Hohenheim, Stuttgart, Marzo 2008
- Kurt Jetter (permanenza presso le unit  amministrative di studiosi stranieri di chiara fama),
Institut f r Angewandte Mathematik und Statistik Universit t Hohenheim, Stuttgart, Settembre 2008
- Maria Charina, Institut f r Angewandte Mathematik, Universit t Dortmund, Novembre 2007
- Kurt Jetter, Institut f r Angewandte Mathematik und Statistik Universit t Hohenheim, Stuttgart, Giugno 2005

- Maria Charina, Institut für Angewandte Mathematik, Universität Dortmund, Novembre 2003
- Nira Dyn, Tel Aviv University, Israel, Dicembre 2002
- Kurt Jetter, Institut für Angewandte Mathematik und Statistik Universität Hohenheim, Stuttgart, Novembre 2000
- Christophe Rabut, INSA Toulouse, France, per diverse volte durante il periodo di dottorato (1995-1998)

CREATIVE WORKS

Referee for Ph.D. thesis, Career paths, projects

- Referee per Austrian Science Fund (FWF), ESPRIT Programme of the FWF, 2022
 - Referee per progetti SIR2014
 - Referee per INDAM-COFUND-2012 Fellowships in Mathematics and/or Applications co-founded by Marie Curie actions;
 - Referee REPRISE;
 - Referee per Mathematical Reviews/MathSciNet;
 - Referee Elsevier, Springer, MDPI;
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- 2022: Expert assessment of the outstanding quality of Dr. Mohamadkazem Safaripoorfatide, USA Adjudicating Officer;
 - 2022: Career Paths Evaluation as Professor of Mathematics on TTS in the Department of Mathematics, The Islamia University of Bahawalpur (IUB) (Candidato Ghulam Mustafa), 2022;
 - 2020-2021-2022: Commissione assegnazione Borse Extra EU -Bando mobilità Dottorandi DIF;
 - 2022: Expert regarding the appointment of Professor in the Department. of Mathematics at The Islamia University of Bahawalpur Department of Mathematics, Pakistan; (Candidato Kashif Rehan);
 - Ph.D. committee: 2022 University of Oslo, Faculty of Mathematics and Natural Science;
 - Ph.D. referee: 2022, University of Oslo, Mathematical methods for geometry reconstruction and shape analysis (candidate Andrea Raffo);
 - Ph.D. committee: 2021 Università dell' Insubria, Italia;
 - Career paths in science Evaluation committee: 2020. University of Groningen, The Netherlands;
 - Ph.D. referee: 2020, Dottorato in Informatica e Matematica del Calcolo, XXXIII Ciclo, Università dell' Insubria, Italia (candidato: Rafael Diaz Fuentes);
 - 2019: Foreign Expert for Tenure Track System Evaluation, The Islamia University of Bahawalpur Department of Mathematics, Pakistan; (Candidato M. Mustahsan)
 - Ph.D. referee: 2019, Graz University of Technology, Austria (candidate Svenja Huning);
 - Ph.D. referee: 2017, NAWI Natural Science, Technischen Universität Graz, Austria (candidate Caroline Moosmuller);
 - Ph.D. referee: 2017 Università degli studi di Milano-Bicocca-l'Università della Svizzera Italiana, Svizzera (candidate: Elena Volonte');
 - Ph.D. committee: 2016 University of Oslo, Faculty of Mathematics and Natural Science;
 - Ph.D. committee: 2016. Ciclo XXIX Dottorato in Informatica e Matematica del Calcolo, Università dell' Insubria, Italia;
 - Ph.D. referee: 2016. The University of Oslo, Faculty of Mathematics and Natural Science, (candidate: Bartłomiej Siwek);

- PhD referee: 2015, Scienze Matematiche- indirizzo Matematica Computazionale, Universita' degli Studi di Padova (candidato: Michele Antonelli);
- Ph.D. committee: 2015 Ciclo XXVII, Scienze Matematiche- indirizzo Matematica Computazionale, Universita' degli Studi di Padova;
- Ph.D. referee: 2011, Universite' de Valenciennes et du Hainaut Cambresis, France (candidate: Maria Boschioli);
- Ph.D. committee: 2011, Universite' de Valenciennes et du Hainaut Cambresis, France;
- Ph.D. referee: 2009 Faculty of Science, Stellenbosch University, South Africa, (candidate: Guy Blaise Dongmo);

[Current]

Supervision of Bachelor, Master and Ph.D. and Tutoring of Ph.D. students from abroad

Supervision of 30 Bachelor students

Ph.D. Supervision:

-*Anna Lo Grasso*, Ph.D. in Smart Industry consorzio Pisa-Firenze-Siena. XXXV ciclo, borsa regionale Pegaso, (with Marco Mugnaini).

-*Riccardo Reali*, Ph.D. in Smart Computing, XXXV ciclo, (with Enrico Vicario).

-*Daniela Schenone*, Dottorato In matematica, Milano-Bicocca, XXXI ciclo, (with Lucia Romani);

(Thesis Mathematical tools for images. Publication: C. Conti, L. Romani, D. Schenone, Semi-automatic spline fitting of planar curvilinear profiles in digital images using the Hough transform, Pattern Recognition 74 (2018), 64–76).

-*Alberto Viscardi*, Dottorato In matematica, Università Milano-Bicocca, XXXI ciclo, (with Lucia Romani and Maria Charina, extrenal supervision);

(Thesis: Smoothness Estimates for Semi-regular Subdivision via Wavelet Tight Frames. Publication M. Charina, C. Conti, Romani L., Stöcklerd J., Viscardi A., Optimal H²-Zygmund exponent of semi-regular refinable functions, Journal of Approximation Theory 251 (2020) 105340).

-*Daniela Scaramelli*, Dottorato In matematica Computazionale, Università di Padova, Ciclo XIV, (con Rossana Morandi, supervisione esterna);

(Thesis: Metodi di approssimazione/interpolazione nell' applicazione alle griglie computazionali. Publications: C. Conti, R. Morandi, D. Scaramelli, Using Discrete Uniformity Property in a Mixed Algebraic Method, Applied Numerical Mathematics 49, 4, (2004), 355–366— C. Conti, R. Morandi, D. Scaramelli, An Automatic Control Point Choice in Algebraic Numerical grid Generation, Algorithms for Approximation IV, J. Levesly, I.J. Anderson, J.C. Mason eds, 2–8, (2002)).

Tutoring of Ph.D. students from abroad:

-*Mohammed Yassir Nour*, University Hassan First, FST, MISI Laboratory, Settati, Morocco, (Ph.D. period in Florence, February-March 2022);

-*Mohammed Yassir Nour*, University Hassan First, FST, MISI Laboratory, Settati, Morocco, (Ph.D. period in Florence, March-April 2021);

-*Svenja Hüning*, Institute of Geometry, TU Graz (Ph.D. period in Florence, Settembre-Dicembre 2017);

(Publication: C. Conti, S. Hüning, An algebraic approach to polynomial reproduction of Hermite subdivision schemes, Journal of Computational and Applied Mathematics 349 (2019) 302–315).

-*Sergio López-Ureña*, Universitat de València (Ph.D. period in Florence, Ottobre-Dicembre 2017);

(Publication: C. Conti, S. Lopez Urena, L. Romani, Annihilation Operators for Exponential Spaces

in Subdivision, Applied Mathematics and Computation 418 (2022) 126796).

NETWORKS AND MEMBERSHIPS

[2018 – Current] **UMI, Unione Matematici Italiani,** Italia

[2018 – Current] **EWM, European Women in Mathematics** Europe

[2016 – Current] **RiTa, Rete Italiana di Teoria dell' Approssimazione** Italia

[2014 – Current]

IMACS, International Association for Mathematics and Computer in Simulation

Brussel, Belgium

Member of Board di Directors

[1999 – Current] **G.N. C. S. Gruppo Nazionale Calcolo Scientifico** Italia

[1988 – Current] **Associazione Sportiva Ginnastica Campo Marte** Firenze, Italia

Allenatore fino al 2000 quindi Vicepresidente

[1997 – 2010] **SIGMA Signal-Image-Geometry-Modelling-Approximation** France

[1972 – 1993] **Agesci, Associazione Guide e Scouts Cattolici Italiani** Firenze, Italia

HONOURS AND AWARDS

Member Editorial Board

1. Applied and Numerical Mathematics (APNUM-Elsevier), since 2015;
2. Journal of Computational Mathematics and Data Science (JCMDS-Elsevier), dal 2021;
3. Dolomites Research Notes on Approximation (Padua University Press), since 2013;
4. Contemporary Mathematics (CM-Universal Wiser Publisher), since 2019;
5. Axioms, (Open Access MDPI), dal 2019;
6. International Journal of Mathematics and Systems Science (Empress-Publisher), since 2018;
7. Journal of Pure and Applied Mathematics: Advances and Applications (Scientific Advances Publishers), dal 2012;
8. The Scientific World Journal (Indawi), period 2013-2017.
9. [Frontiers in Applied Mathematic and Statistics](#), since 2023

Guest Editor of Special Issues

1. Dolomites Research Notes on Approximation. ATMA2021 - Approximation: Theory, Methods, and Applications. (con M. Cotronei, F. Dell'Accio, A. De Rossi, L. Puccio), vol 15, 2022;
2. Dolomites Research Notes on Approximation. Special Issue- Proceedings of MATA2020, (con L. Angeloni, S. De Marchi, E. Francomano, G. Vinti), 2021;
3. Mathematics and Computers in Simulation. Special Issue- Applied Scientific Computing XV: Innovative Modelling and Simulation in Sciences, (con S. Carillo, D. Mansutti, F. Pitolli, R.M. Spitaleri), 2020;
4. Applied Mathematics and Computation, Preface, Special Issue "SMART2014", Issn: 0096- 3003, Elsevier, (con S. Morigi, F. Pitolli), 2016;
5. Mathematics and Computers in Simulation. Special Issue- Applied scientific computing: advanced grid generation, approximation, and simulation, 75, no. 5-6, 139–140 (con R.Morandi, F. Pistella, R.M. Spitaleri), 2007.

[2013]

RIP-Research in Pairs Program at Mathematisches Forschungsinstitut Oberwolfach, Germany;

Program committee at SIAM Conference on Geometric and Physical Modeling (GD/SPM13)

DIREZIONE E COORDINAMENTO

[2019 – Current] **Member of GIUNTA-UMI gruppo Teoria dell' Approssimazione e Applicazioni**

[2018 – Current]

Member of Technical Committee IMACS: Kernel-based methods, Splines, Subdivisions and Applications, dal 2019.

[2015 – Current]

Member of the Board of Directors dell' International Association for Mathematics and Computers in Simulation (IMACS)

[2016 – 2020] **Member of the Board of Rete Italiana di Teoria dell'Approssimazione (RITA),**

MANAGEMENT AND LEADERSHIP SKILLS

University contact person for the Department of Industrial Engineering for Internationalization

Since 2019-- Promotion and strengthening of the internationalization of the DIEF: international agreements, invitation of visiting professors, promotion of scholarships Extra EU for Ph.D., support of the organization of international conferences and Summer Schools.

University contact person for the Department of Industrial Engineering for International Cooperation

Since 2019--- Promotion and strengthening of DIEF International Cooperation

Member of Gruppo di Autovalutazione (GAV), C.d.S. Ingegneria Informatica

From 2005 to 2012 Working Group for the analysis of the course of studies. Writing of the Annual Report of the RAV Self-assessment.

Comitato per la Didattica, corso di studi in Ingegneria Informatica, Università di Firenze

Since 2012--Member of the Teaching Committee with a delegation on Curricula, student practices, Learning Agreements and Erasmus exams validation, credit validation

Comitato per la Didattica, corso di studi in Matematica, Università di Firenze

Since 2017-- Member of the Teaching Committee with a delegation on Curricula, student practices, Learning Agreements and Erasmus exams validation, credit validation

Collegio Docenti del Dottorato di Ricerca in Ingegneria Industriale, Firenze

Dal 2011-2013 e dal 2017 -- Membro del collegio docenti

Responsable person for cooperation between Università di Firenze and Université Hassan-Ier, Marocco

Since 2020--

Participant to EUniWell 'European University for Well-Being'

Since 2020--