

## INFORMAZIONI PERSONALI

**Carla Manni**

Nata a [REDACTED]

Residente in [REDACTED]  
[REDACTED]

## POSIZIONE RICOPERTA

2002- Professore universitario di ruolo di I fascia, settore scientifico disciplinare MAT08: Analisi Numerica, Dipartimento di Matematica, Università degli Studi di Roma ``Tor Vergata''

## ESPERIENZA PROFESSIONALE

1998-2002 Professore universitario di ruolo di II fascia, settore scientifico disciplinare MAT08: Analisi Numerica, Facoltà di Farmacia, Università degli Studi di Torino;  
1994-1998 Ricercatore universitario, Facoltà di Ingegneria, Università degli Studi di Firenze;  
1990-1994 Ricercatore universitario, Facoltà di SMFN, Università degli Studi di Pisa

## ISTRUZIONE E FORMAZIONE

1990 Dottorato di Ricerca in Matematica, Università degli Studi di Firenze  
1984 Laurea in Matematica, Università degli Studi di Firenze

## COMPETENZE PERSONALI

Lingua madre Italiano

## ULTERIORI INFORMAZIONI

2009-2016 Membro Consiglio Scientifico GNCS

2005—membro collegio docenti Dottorato di Ricerca in Matematica, Università degli Studi di Roma ``Tor Vergata''

Oltre 45 comunicazioni su invito in Congressi internazionali

## Pubblicazioni

Autore di oltre 100 pubblicazioni su riviste internazionali e proceedings di Convegni internazionali, vedasi allegato.

## ALLEGATI

## Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".



ELENCO delle PUBBLICAZIONI di CARLA MANNI

2017

- [100–2017] C. Manni, F. Roman, H. Speleers: *Generalized B-splines in Isogeometric Analysis*, in “Approximation Theory XV, San Antonio, 2016” Fasshauer, Gregory E., Schumaker, Larry L. (Eds.), Springer Proceedings in Mathematics and Statistics, to appear
- [99–2017] F. Roman, C. Manni, H. Speleers: *Numerical approximation of GB-splines with a convolutional approach*, Applied Numerical Mathematics, 116 (2017) 273–285  
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- [97–2017] C. Garoni, C. Manni, S. Serra-Capizzano, D. Sesana, H. Speleers: *Spectral analysis and spectral symbol of matrices in isogeometric Galerkin methods*, Mathematics of Computation, 86 (2017) 1343–1373  
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- [95–2017] C. Garoni, C. Manni, S. Serra-Capizzano, D. Sesana, H. Speleers: *Lusin theorem, GLT sequences and matrix computations: an application to the spectral analysis of PDE discretization matrices*, Journal of Mathematical Analysis and Applications, 446 (2017) 365–382  
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- [94–2017] F. Roman, C. Manni, H. Speleers: *Spectral analysis of matrices in Galerkin methods based on generalized B-splines with high smoothness*, Numerische Mathematik, 135 (2017) 169–216  
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2016

- [93–2016] C. Manni, H. Speleers: *Standard and Non-standard CAGD Tools for Isogeometric Analysis: A Tutorial*, Lecture Notes in Mathematics, 2161 (2016) 1–69.  
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- [92–2016] C. Bracco, T. Lyche, C. Manni, F. Roman, H. Speleers: *On the dimension of Tchebycheffian spline spaces over planar T-meshes* CAGD, 45 (2016) 151–173  
<http://dx.doi.org/10.1016/j.cagd.2016.01.002>
- [91–2016] M. Donatelli, C. Garoni, C. Manni, S. Serra-Capizzano, H. Speleers: *Spectral analysis and spectral symbol of matrices in isogeometric collocation methods*, Mathematics of Computation, 85 (2016) 1639–1680.  
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- [90–2016] H. Speleers, C. Manni: *Effortless quasi-interpolation in hierarchical spaces*, Numerische Mathematik, 132 (2016) 155–184  
DOI 10.1007/s00211-015-0711-z
- [89–2016] C. Bracco, T. Lyche, C. Manni, F. Roman, H. Speleers: *Generalized spline spaces over T-meshes: Dimension formula and locally refined generalized B-splines*, Applied Mathematics and Computation, 272 (2016) 187–198  
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2015

- [88–2015] M. Donatelli, C. Garoni, C. Manni, S. Serra-Capizzano, H. Speleers: *Two-grid optimality for Galerkin linear systems based on B-splines*, Computing and Visualization in Science, 17 (2015) 119–133

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- [85-2015] **C. Manni**, A. Reali, H. Speleers: *Isogeometric collocation methods with generalized B-splines*, Computers & Mathematics with Applications, 70 (2015), 1659–1675  
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<http://dx.doi.org/10.1016/j.cma.2014.11.036>  
Available online 28 November 2014
- [83-2015] M. Donatelli, C. Garoni, **C. Manni**, S. Serra-Capizzano, H. Speleers: *Robust and optimal multi-iterative techniques for IgA Galerkin linear systems*, Computer Methods in Applied Mechanics and Engineering, 284 (2015) 230–264  
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- [82-2015] **C. Manni**, F. Mazzia, A. Sestini, H. Speleers: *BS2 methods for semi-linear second order boundary value problems*, Applied Mathematics and Computation 255 (2015) 147–156  
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- [79-2015] R. T. Farouki, **C. Manni**, M. L. Sampoli, A. Sestini: *Shape-preserving interpolation of spatial data by Pythagorean-hodograph quintic spline curves*, IMA J. Numer. Anal. 35 (2015), 478–498  
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## 2014

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## 2012

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## 2011

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## 2010

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## 2008

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## 2006

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## 2005

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## 2004

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## 2003

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## 2002

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## 2001

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## 2000

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### 1999

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### 1998

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### 1997

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### 1996

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### 1995

- [13-1995] **C. Manni**, P. Sablonnière:  *$C^1$  comonotone Hermite interpolation via parametric surfaces*, in **Mathematical Methods in Computer Aided Geometric Design III**, M. Dahlen, T. Lyche and L.L. Schumaker eds., Vanderbilt University Press, Nashville (1995), 333-342.

### 1993

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### 1992

[10-1992] C. Manni: *Lower bounds on the dimension of bivariate spline spaces and generic triangulations*, in Mathematical Methods in Computer Aided Geometric Design II, T. Lyche and L.L. Schumaker eds., Academic Press, (1992), 401–412.

[9-1992] C. Manni: *On the dimension of bivariate spline spaces on generalized quasi-cross-cut partitions*, J. of APPROXIMATION THEORY, 69, (1992), 141–155.

## 1991

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## 1990

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## 1986

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[1-1986] C. Manni: *Sull'esistenza di funzioni spline interpolanti*, B.U.M.I., 5-A, (1986), 59–68.

## MONOGRAFIA IN PREPARAZIONE

T. Lyche, C. Manni, H. Speleers,

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