

Luca Franco Pavarino

Dipartimento di Matematica, Università degli Studi di Milano
Via Saldini, 50 , 20133 Milano, ITALY
tel: +39 02 50316187, fax: +39 02 50316090
e-mail: luca.pavarino@unimi.it, <http://www.mat.unimi.it/~pavarino/>

EDUCATION

- 1990-1992 **Ph.D. in Mathematics**, Courant Institute of Mathematical Sciences, New York University, USA. Research in numerical analysis of partial differential equations. Thesis on domain decomposition algorithms for spectral and p-version finite element methods; advisor: Prof. Olof B. Widlund.
- 1988-1990 **Master in Mathematics**, Courant Institute of Mathematical Sciences, New York University, USA.
- 1987-1988 **Istituto Nazionale di Alta Matematica F. Severi (INdAM)**, Roma, Italy.
- 1982-1987 **Laurea in Matematica (B.S.)**, University of Pavia, Italy. Summa cum laude. Thesis on numerical methods for parabolic partial differential equations; advisor: Prof Claudio Baiocchi.

PROFESSIONAL EXPERIENCE

- 2001–present **Full Professor of Numerical Analysis**
Department of Mathematics, University of Milano, Italy.
- 1998–2001 **Associate Professor of Numerical Analysis**
Department of Mathematics, University of Milano, Italy.
- 1994–1998 **Assistant Professor**, Department of Mathematics, University of Pavia, Italy.
- 1992–1994 **Postdoctoral Research Associate**, Department of Computational and Applied Mathematics, Rice University, USA.
- 1991–1992 **Teaching Assistant**, Courant Institute of Mathematical Sciences, NYU, USA.
- Summer 1990 **IBM T.J. Watson Research Center**, Yorktown Heights, NY, USA. Summer position in the Modeling theory and algorithms group.

HONORS AND SCHOLARSHIPS

- 1993 Wilhelm T. Magnus Prize from the Courant Institute, NYU.
- National Research Council (CNR, Italy) Scholarship, 1986 and 1988-91.
- Istituto Nazionale di Alta Matematica (INdAM) Scholarship, 1987-88.
- St. John's College, Cambridge, England. Summer scholarship, 1986.
- Visiting professor at: Courant Institute, NYU, Zuse Institut Berlin ZIB, Germany (2004, 06), Mittag-Leffler Institute, Royal Academy of Science, Sweden (1998), Institute for Mathematics and Applications (IMA), Minneapolis, USA (1997), NASA, Langley Research Center (ICASE), USA (1995, 96), Computer Science Dept., University of Maryland, College Park, USA (1995).

PUBLICATIONS

94. L. Beirão da Veiga, D. Cho, L. F. Pavarino, S. Scacchi, Overlapping Schwarz methods for Isogeometric Analysis. *SIAM Journal on Numerical Analysis*, to appear, 2012.
93. S. Rossi, R. Ruiz - Baier, L. F. Pavarino, A. Quarteroni, An orthotropic active strain model for the numerical simulation of cardiac biomechanics. *International Journal for Numerical Methods in Biomedical Engineering*, to appear, 2012.
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91. P. Colli Franzone, L.F. Pavarino, S. Scacchi, Cardiac excitation mechanisms, wavefront dynamics and strength - interval curves predicted by 3D orthotropic bidomain simulations. *Mathematical Biosciences*, 235 (1): 66–84, 2012.
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89. P. Colli Franzone, L.F. Pavarino, S. Scacchi, Mathematical and numerical methods for reaction-diffusion models in electrocardiology. In *Modeling of Physiological Flows*, D. Ambrosi, A. Quarteroni, G. Rozza, Eds., MS&A Vol. 5, Springer, 2011.
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87. P. Colli Franzone, L.F. Pavarino, S. Scacchi, Anode Make and Break Excitation Mechanisms and Strength-Interval Curves: Bidomain Simulations in 3D Rotational Anisotropy. In *FIMH 2011*, D. Metaxas and L. Axel, Eds., Springer LNCS Vol. 6666, pp. 1–10, 2011.
86. P. Colli Franzone, L.F. Pavarino, S. Scacchi, Exploring anodal and cathodal make and break cardiac excitation mechanisms in a 3D anisotropic bidomain model. *Mathematical Biosciences*, 230 (2): 96–114, 2011.
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84. P. Colli Franzone, L.F. Pavarino, S. Scacchi, Accuracy of Estimates of Cardiac Action Potential Duration from Extracellular Waveforms Simulated by the Bidomain Model. In *CINC 2010*, 37th Annual Computing in Cardiology Conference, IEEE Proceedings, pp. 101–104, 2010.
83. M. Munteanu, L. F. Pavarino and S. Scacchi. A Two-Level Newton–Krylov–Schwarz Method for the Bidomain Model of Electrocardiology. In *Numerical mathematics and advanced applications 2009*, Proceedings of ENUMATH 2009, G. Kreiss et al. Eds., Springer, pp. 683–691, 2010.
82. L.F. Pavarino and O. B. Widlund, BDDC and FETI–DP preconditioners for spectral element discretizations of almost incompressible elasticity. In *ICOSAHOM 09*, Spectral and High Order Methods for Partial Differential Equations, J. S. Hesthaven and E. Rønquist, Eds. Springer LNCSE Vol. 76, pp. 479–486, 2010.

81. S. Scacchi, P. Colli Franzone, L. F. Pavarino, and B. Taccardi, Computing cardiac recovery maps from electrograms and monophasic action potentials under heterogeneous and ischemic conditions. *Mathematical Models and Methods in Applied Sciences*, 20 (7): 1089 - 1127, 2010.
80. L. Ghezzi, L. F. Pavarino, E. Zampieri, Overlapping Schwarz preconditioners for spectral element methods in nonstandard domains and heterogeneous media *Journal of Computational and Applied Mathematics*, 234: 1492 - 1504, 2010.
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