

EUROPEAN FORMAT CURRICULUM VITAE

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PERSONAL INFORMATION

Name Quaglini Silvana
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Nationality Italian
Birth date 17.02.1957

JOB EXPERIENCE

- Date 1981 -
- Workplace University of Pavia
- Job type Research fellow 1981-1983, PhD student 1984-1988, Researcher 1989-1992, Associate Professor 1992-2011, Full Professor 2011-
- Main activities and responsibilities
Her educational activities are related to courses of "Decision analysis in Medicine," "Medical Informatics" and "Artificial Intelligence in Medicine" in the Bioengineering track and in the Post-graduation Master of Clinical Engineering. Her research concerns decision support systems in medicine; this field involves several basic research areas such as decision theory, artificial intelligence, probabilistic systems, medical statistics, knowledge management. The application areas include support systems for diagnosis, treatment and monitoring, such as computerized guidelines, economic evaluations based on decision-analytic models, telemedicine systems and workflow management within health care organizations. The areas covered by these medical applications are stroke, chronic patient management, cardiovascular risk, cognitive and motor rehabilitation, systemic amyloidosis.
From 2002 to 2008 she collaborated as Professor within the Master of E-Medicine at the Faculty of Medicine of the University of Florence. She participated to EU funded projects, e.g. HC-ReMa (Healthcare Resource Management), PatMan (Patient Management through workflow), Homey (Hypertension Homecare), MyHeart (post-stroke rehabilitation, Mobiguide (Guiding patients anywhere anytime). She's author of more than 250 scientific publications on scientific journals (125 papers) and conference proceedings
- Date 1997 - 2007
- Workplace Consorzio di Bioingegneria e Informatica Medica di Pavia

- Job type Consultant
- Main activities and responsibilities Management of the research aspects of EU-Funded projects

- Date 1994 -1999
- Workplace Cardiosurgery specialty school, University of Pavia

- Job type Teaching
- Activities Course of Elements of Medical Informatics

EDUCATION

- Date 1987
- Institution University of Pavia
- Skills Electronics and Informatics in the biomedical field
- Title PhD in Bioengineering
- Date 1976-1981
- Institution University of Pavia
- Skills Electronics, Informatics, Bioengineering, System theory, Mathematics, Physics
- Title Laurea (cum laude) in Electronic Engineering
- Livello nella classificazione nazionale (se pertinente) Rating: 110/110 cum laude
- Date 1971-1976
- Institution Liceo Scientifico Statale Galileo Galilei , Voghera (PV)
- Skills Scientific and Human studies
- Title Maturità Scientifica
- Rating 60/60

PUBLICATIONS:

The total number of publication is 259, and the H-index is 36 (source Google Scholar) – 28 (Scopus)

Last 5 years publications (2008-)

1. Moroni, G., Longhi, S., Quaglini, S., Gallelli, B., Banfi, G., Montagnino, G., Messa, P. The long-term outcome of renal transplantation of IgA nephropathy and the impact of recurrence on graft survival (2013) *Nephrology Dialysis Transplantation*, 28 (5), pp. 1305-1314.
2. Cavallini, A., Tartara, E., Marcheselli, S., Agostoni, E., Quaglini, S., Micieli, G. Improving thrombolysis for acute ischemic stroke in Lombardia stroke centers (2013) *Neurological Sciences*, pp. 1-7. Article in Press.
3. Rubrichi, S., Quaglini, S., Spengler, A., Russo, P., Gallinari, P. A system for the extraction and representation of summary of product characteristics content (2013) *Artificial Intelligence in Medicine*, 57 (2), pp. 145-154.
4. Ciprandi, G., De Amici, M., Quaglini, S., Labò, E., Castellazzi, A.M., Miraglia Del Giudice, M., Marseglia, A., Bianchi, L., Moratti, R., Marseglia, G.L., Bosio, M., Fiorentini, M.L., Alesina, R., Luisetti, M., Borroni, G., Vignini, M., Spinillo, A., Perotti, F., Stronati, M., Bollani, L., Cerra, C., Carugno, B. Tetanus toxoid IgE may be useful in predicting allergy during childhood (2012) *Journal of Biological Regulators and Homeostatic Agents*, 26 (1 SUPPL), pp. 119S-123S.
5. Tormene, P., Bartolo, M., De Nunzio, A.M., Fecchio, F., Quaglini, S., Tassorelli, C., Sandrini, G. Estimation of human trunk movements by wearable strain sensors and improvement of sensor's placement on intelligent biomedical clothes (2012) *BioMedical Engineering Online*, 11, art. no. 95.

6. Rubrichi, S., Eku Ndam, S., Battistotti, A., Quaglini, S. Information extraction from SMS text related to a reminder service for outpatients (2012) *Studies in Health Technology and Informatics*, 180, pp. 240-244 (conference proceedings)
7. Mantas, J., Andersen, S.K., Mazzoleni, M.C., Blobel, B., Quaglini, S., Moen, A. Preface (2012) *Studies in Health Technology and Informatics*, 180, pp. v-vii. (conference proceedings)
8. Russo, P., Piazza, M., Leonardi, G., Roncoroni, L., Russo, C., Spadaro, S., Quaglini, S. Developing an eLearning tool formalizing in YAWL the guidelines used in a transfusion medicine service (2012) *Studies in Health Technology and Informatics*, 180, pp. 1168-1170. (conference proceedings)
9. Porta, C., Paglino, C., Imarisio, I., Ganini, C., Sacchi, L., Quaglini, S., Giunta, V., De Amici, M. Changes in circulating pro-angiogenic cytokines, other than VEGF, before progression to sunitinib therapy in advanced renal cell carcinoma patients (2012) *Oncology (Switzerland)*, 84 (2), pp. 115-122.
10. Liberato, N.L., Rognoni, C., Rubrichi, S., Quaglini, S., Marchetti, M., Gorlia, T., Licitra, L., Vermorken, J.B. Adding docetaxel to cisplatin and fluorouracil in patients with unresectable head and neck cancer: A cost-utility analysis (2012) *Annals of Oncology*, 23 (7), art. no. mdr545, pp. 1825-1832.
11. Moroni, G., Quaglini, S., Gravellone, L., Gallelli, B., Leoni, A., Messa, P., Sinico, R.A. Membranous Nephropathy in Systemic Lupus Erythematosus: Long-Term Outcome and Prognostic Factors of 103 Patients (2012) *Seminars in Arthritis and Rheumatism*, 41 (5), pp. 642-651.
12. Rubrichi, S., Quaglini, S. Summary of Product Characteristics content extraction for a safe drugs usage (2012) *Journal of Biomedical Informatics*, 45 (2), pp. 231-239.
13. Gerzeli, S., Rognoni, C., Quaglini, S., Cavallo, M.C., Cremonesi, G., Papi, A. Cost-effectiveness and cost-utility of beclomethasone/formoterol versus fluticasone propionate/salmeterol in patients with moderate to severe asthma (2012) *Clinical Drug Investigation*, 32 (4), pp. 253-265.
14. Peleg, M., Tu, S.W., Leonardi, G., Quaglini, S., Russo, P., Palladini, G., Merlini, G. Reasoning with effects of clinical guideline actions using OWL: AL amyloidosis as a case study (2012) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 6924 LNAI, pp. 65-79. (conference proceedings)
15. Leonardi, G., Panzarasa, S., Quaglini, S. Ontology-based automatic generation of computerized cognitive exercises (2011) *Studies in Health Technology and Informatics*, 169, pp. 779-783. (conference proceedings)
16. Negrini, A.C., Negrini, S., Giunta, V., Quaglini, S., Ciprandi, G. Thirty-year survey on airborne pollen concentrations in Genoa, Italy: Relationship with sensitizations, meteorological data, and air pollution (2011) *American Journal of Rhinology and Allergy*, 25 (6), pp. e232-e241.
17. Quaglini, S., Panzarasa, S., Cavallini, A., Micieli, G. Guideline recommendation text disambiguation, representation and testing (2011) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 6747 LNAI, pp. 312-316. (conference proceedings)
18. Rubrichi, S., Quaglini, S., Spengler, A., Gallinari, P. Extracting information from summary of product characteristics for improving drugs prescription safety (2011) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 6747 LNAI, pp. 327-337. (conference proceedings)
19. Moroni, G., Casati, C., Quaglini, S., Gallelli, B., Banfi, G., Montagnino, G., Messa, P. Membranoproliferative glomerulonephritis type i in renal transplantation patients: A single-center study of a cohort of 68 renal transplants followed up for 11 years (2011) *Transplantation*, 91 (11), pp. 1233-1239.
20. Ferrari, R., Caffi, E., Quaglini, S., Stefanelli, M., Russo, P., Palladini, G., Lavatelli, F., Merlini, G. AMICA: An electronic patient record specifically designed for an amyloidosis network (2011) *Amyloid*, 18 (SUPPL. 1), pp. 236-238.
21. Ferrari, R., Caffi, E., Quaglini, S., Stefanelli, M., Russo, P., Palladini, G., Lavatelli, F., Merlini, G. AMICA: an electronic patient record specifically designed for an amyloidosis network. (2011) *Amyloid* 18 Suppl 1, pp. 231-233. (conference proceedings)

22. Panzarasa, S., Quaglini, S., Ferrari, R., Stefanelli, M., Foli, A., Palladini, G., Russo, P., Lavatelli, F. A workflow management system for the biological samples exchange within the amyloidosis network (2011) *Amyloid*, 18 (SUPPL. 1), pp. 233-235. (conference proceedings)
23. Panzarasa, S., Quaglini, S., Ferrari, R., Stefanelli, M., Foli, A., Palladini, G., Russo, P., Lavatelli, F. A workflow management system for the biological samples exchange within the amyloidosis network. (2011) *Amyloid* 18 Suppl 1, pp. 228-230. (conference proceedings)
24. Ciprandi, G., De Amici, M., Quaglini, S., Concaro, S., Cerra, C., Carugno, B., Bosio, M., Marseglia, G.L., Spinillo, A., Stronati, M., Moratti, R., Fiorentini, M.L., Alesina, R., Pozzi, E., Mosca, M., Vignini, M., Borroni, G., Perotti, F., Bollani, L., Marchi, A. Prediction of allergy by total serum IgE measurements in infancy: A 10-year follow-up (2011) *European Journal of Inflammation*, 9 (2), pp. 193-197.
25. Moroni, G., Casati, C., Quaglini, S., Gallelli, B., Banfi, G., Montagnino, G., Messa, P. Membranoproliferative glomerulonephritis type I in renal transplantation patients: A single-center study of a cohort of 68 renal transplants followed up for 11 years (2011) *Transplantation*
26. Panzarasa, S., Quaglini, S., Sacchi, L., Cavallini, A., Micieli, G., Stefanelli, M. Data mining techniques for analyzing stroke care processes (2010) *Studies in Health Technology and Informatics*, 160 (PART 1), pp. 939-943. (conference proceedings)
27. Gallelli, B., Burdick, L., Quaglini, S., Banfi, G., Novembrino, C., Bamonti, F., Messa, P., Moroni, G. Carotid plaques in patients with long-term lupus nephritis (2010) *Clinical and Experimental Rheumatology*, 28 (3), pp. 386-392.
28. Rubrichi, S., Spengler, A., Gallinari, P., Quaglini, S. Preventing adverse drug events by extracting information from drug fact sheets (2010) *CEUR Workshop Proceedings*, 714, pp. 128-133.
29. Ciprandi, G., Quaglini, S., Giunta, V., Cirillo, I. Assessment of the bronchodilation test by visual analog scale in the selection of patients with rhinitis for screening spirometry (2010) *Journal of Investigational Allergology and Clinical Immunology*, 20 (5), pp. 419-424.
30. Moroni, G., Gallelli, B., Quaglini, S., Leoni, A., Banfi, G., Passerini, P., Montagnino, G., Messa, P. Long-term outcome of renal transplantation in patients with idiopathic membranous glomerulonephritis (MN) (2010) *Nephrology Dialysis Transplantation*, 25 (10), pp. 3408-3415.
31. Micieli, G., Cavallini, A., Quaglini, S., Fontana, G., Duè, M. The Lombardia stroke unit registry: 1-year experience of a web-based hospital stroke registry (2010) *Neurological Sciences*, 31 (5), pp. 555-564.
32. Quaglini, S. Information and communication technology for process management in healthcare: A contribution to change the culture of blame (2010) *Journal of Software Maintenance and Evolution*, 22 (6-7), pp. 435-448.
33. Porta, C., Paglino, C., De Amici, M., Quaglini, S., Sacchi, L., Imarisio, I., Canipari, C. Predictive value of baseline serum vascular endothelial growth factor and neutrophil gelatinase-associated lipocalin in advanced kidney cancer patients receiving sunitinib (2010) *Kidney International*, 77 (9), pp. 809-815.
34. Panzarasa, S., Quaglini, S., Cavallini, A., Micieli, G., Marcheselli, S., Stefanelli, M. Technical solutions for integrating clinical practice guidelines with electronic patient records (2010) *Lecture Notes in Computer Science*, 5943 LNAI, pp. 141-154. (conference proceedings)
35. Peona, V., Amici, M.D., Quaglini, S., Bellaviti, G., Castellazzi, A.M., Marseglia, G., Ciprandi, G. Serum eosinophilic cationic protein: Is there a role in respiratory disorders (2010) *Journal of Asthma*, 47 (2), pp. 131-134.
36. Moroni, G., Gallelli, B., Quaglini, S., Banfi, G., Montagnino, G., Messa, P. Long-term outcome of renal transplantation in adults with focal segmental glomerulosclerosis (2010) *Transplant International*, 23 (2), pp. 208-216. Cited 8 times.
37. Moroni, G., Novembrino, C., Quaglini, S., De Giuseppe, R., Gallelli, B., Uva, V., Montanari, V., Messa, P., Bamonti, F. Oxidative stress and homocysteine metabolism in patients with lupus nephritis (2010) *Lupus*, 19 (1), pp. 65-72.
38. Cucchi, A., Quaglini, S., Rovereto, B. Different Evolution of Voiding Function in Underactive Bladders With and Without Detrusor Overactivity (2010) *Journal of Urology*, 183 (1), pp. 229-233.
39. Quaglini, S., Giorgino, T., Rojas-Barahona, L.M., Caff, E., Vito, M.D.E., Persico, A., Cavallini, A. An automated voice

- response system for anticoagulant therapy management (2009) *Studies in Health Technology and Informatics*, 150, pp. 453-457.
40. Giorgino, T., Tormene, P., Maggioni, G., Pistarini, C., Quaglini, S. Wireless support to poststroke rehabilitation: MyHearts neurological rehabilitation concept (2009) *IEEE Transactions on Information Technology in Biomedicine*, 13 (6), art. no. 5175338, pp. 1012-1018.
 41. Quaglini, S., Panzarasa, S., Giorgiani, T., Zucchella, C., Bartolo, M., Sinforiani, E., Sandrini, G. Ontology-based personalization and modulation of computerized cognitive exercises (2009) *Lecture Notes in Computer Science*, 5651 LNAI, pp. 240-244. (conference proceedings)
 42. Rojas-Barahona, L.M., Quaglini, S., Stefanelli, M. HomeNL: Homecare assistance in natural language. An intelligent conversational agent for hypertensive patients management (2009) *Lecture Notes in Computer Science*, 5651 LNAI, pp. 245-249. (conference proceedings)
 43. De Amici, M., Quaglini, S., Moratti, R., Torre, C., Marseglia, G.L., Ciprandi, G. Reference values of IgG and IgG4 serum levels specific for inhalant allergens in non-atopic children (2009) *Revue Francaise d'Allergologie*, 49 (5), pp. 410-415.
 44. Giorgino, T., Tormene, P., Lorusi, F., De Rossi, D., Quaglini, S. Sensor evaluation for wearable strain gauges in neurological rehabilitation (2009) *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 17 (4), pp. 409-415.
 45. Quaglini, S. Process mining in healthcare: A contribution to change the culture of blame (2009) *Lecture Notes in Business Information Processing*, 17 LNBIP, pp. 308-311.
 46. Giorgino, T., Tormene, P., Maggioni, G., Capozzi, D., Quaglini, S., Pistarini, C. Assessment of sensorized garments as a flexible support to self-administered post-stroke physical rehabilitation (2009) *European Journal of Physical and Rehabilitation Medicine*, 45 (1), pp. 75-84.
 47. Moroni, G., Radice, A., Giammarresi, G., Quaglini, S., Gallelli, B., Leoni, A., Vecchi, M.L., Messa, P., Sinico, R.A. Are laboratory tests useful for monitoring the activity of lupus nephritis? A 6-year prospective study in a cohort of 228 patients with lupus nephritis (2009) *Annals of the Rheumatic Diseases*, 68 (2), pp. 234-237.
 48. De Amici, M., Marseglia, G., Quaglini, S., Moratti, R., Alesina, R., Torre, C., Ciprandi, G. Reference values for IgG and IgG4 serum levels specific for inhalant allergens in non-atopic subjects (2009) *Journal of Biological Regulators and Homeostatic Agents*, 23 (1), pp. 37-44.
 49. Tormene, P., Giorgino, T., Quaglini, S., Stefanelli, M. Matching incomplete time series with dynamic time warping: an algorithm and an application to post-stroke rehabilitation (2009) *Artificial Intelligence in Medicine*, 45 (1), pp. 11-34.
 50. Cucchi, A., Quaglini, S., Rovereto, B. Proposal for a Urodynamic Redefinition of Detrusor Underactivity (2009) *Journal of Urology*, 181 (1), pp. 225-229.
 51. Quaglini, S. Compliance with clinical practice guidelines (2008) *Studies in Health Technology and Informatics*, 139, pp. 160-169. (conference proceedings)
 52. Ciprandi, G., Fenoglio, D., De Amici, M., Quaglini, S., Negrini, S., Filaci, G. Serum IL-17 levels in patients with allergic rhinitis (2008) *Journal of Allergy and Clinical Immunology*, 122 (3), pp. 650-651.e2.
 53. Mans, R., Schonenberg, H., Leonardi, G., Panzarasa, S., Cavallini, A., Quaglini, S., Van Der Aalst, W. Process mining techniques: An application to stroke care (2008) *Studies in Health Technology and Informatics*, 136, pp. 573-578. (conference proceedings)
 54. Ciprandi, G., Murdaca, G., Marseglia, G., Colombo, B.M., Quaglini, S., De Amici, M. Serum adiponectin levels in patients with pollen-induced allergic rhinitis (2008) *International Immunopharmacology*, 8 (6), pp. 945-949.
 55. Cucchi, A., Quaglini, S., Rovereto, B. Development of Idiopathic Detrusor Underactivity in Women: From Isolated Decrease in Contraction Velocity to Obvious Impairment of Voiding Function (2008) *Urology*, 71 (5), pp. 844-848.
 56. Ciprandi, G., De Amici, M., Murdaca, G., Colombo, B.M., Quaglini, S., Marseglia, G., Di Gioacchino, M. Serum IL-4 As a marker of immunological response to sublingual immunotherapy (2008) *Journal of Biological Regulators and Homeostatic Agents*, 22 (2), pp. 117-123.

57. Porta, C., De Amici, M., Quaglini, S., Paglino, C., Tagliani, F., Boncimino, A., Moratti, R., Corazza, G.R. Circulating interleukin-6 as a tumor marker for hepatocellular carcinoma (2008) *Annals of Oncology*, 19 (2), pp. 353-358.
58. De Amici, M., Belloni, C., De Silvestri, A., Perotti, F., Quaglini, S., Ciprandi, G., Marseglia, G. Immunoglobulin e levels in the 1st year of life (2008) *Allergy and Asthma Proceedings*, 29 (1), pp. 74-77.

PERSONAL SKILLS

LANGUAGE	ITALIAN
OTHER LANGUAGES	ENGLISH, FRENCH
• Reading	Very good, very good
• Writing	Very good, very good
• Speaking	Very good, very good
WORKING IN GROUP	She is working since 1981 in multidisciplinary research groups
ORGANISATIONAL SKILLS	She's responsible for the "Medical Informatics" area in the laboratory of Biomedical Informatics "Mario Stefanelli", Department of Computer Science and Systems, where she coordinates a team of about 15 people (including PhD students and undergraduates). She has been and is in charge of operative units in several National Research Projects (Ministry of Health, MIUR, Regione Lombardia) and international projects (EU).
TECHNICAL SKILLS	Programming languages (Fortran, Pascal, Basic, Visual Basic). DBMS (RDBMS and SQL). Statistical packages (SPSS, S-Plus, R), math packages (Matlab), Decision analysis packages (DATA TreeAge, Hugin, Génie), data mining packages (Weka, Orange) and process mining (ProM).
DRIVING LICENCE	B
ADDITIONAL INFORMATION	.