Curriculum Vitae

Personal Data

Name	Pietro Cenciarelli
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Education

1986   *Laurea* (M.Sc.) in Computer Science at the University of Pisa (Italy) with full marks. Thesis: "A Relational Language for Incomplete Queries."

1991 - 1995   *Ph.D.* in Computer Science at the University of Edinburgh under the supervision of Prof. G. D. Plotkin. Doctoral thesis: "Computational Applications of Calculi Based on Monads."

Research and academic experience

Since 1999   *Ricercatore* (Assistant Professor) at the University of Rome "La Sapienza," Department of Computer Science.

October 1998 - September 1999   *Gastprofessor* at the Technical University of Darmstadt (Germany), Department of Mathematics.

March 1997 - October 1998   *Wissenschaftliche Forschungsarbeiter* (Research Associate) at the Ludwig-Maximilians University of Munich (Germany), Department of Computer Science, Chair of Programming and Software Technology.

March 1996 - March 1997   *Post-doc* at the University of Groningen (The Netherlands), Department of Computing Science. HCM project "Design and Specification through Interfacing and Joining Languages." (De Stijl)

April 1994 - March 1996   *Research Associate* at Edinburgh University (U.K.), Department of Computer Science. Project: "Programming language semantics and program logics" (Edinburgh-Genoa-Cambridge Twinning Proj. ERBSC1*CT920795).

Teaching

1999 - to date   Lecturer of the course on "Programming Languages," 3rd year in the Computer Science curriculum at the University of Rome, "La Sapienza."

1999 and 2000   Lecturer of the "Database Laboratory" course, 2nd year in the Computer Science curriculum at the University of Rome, "La Sapienza."

October 2000   Lecturer of the theoretical computer science course in *Semantics* for Ph.D. students at the Department of Computer Science, University of Rome, "La Sapienza". Subjects included: metalanguages for denotational semantics, full abstraction for PCF, natural dualities.

1998/99   Lecturer of the "Grundzüge der Informatik" Computer Science course (first and second semester of the Mathematics curriculum) at the Technical University of Darmstadt. Subjects included: principles of programming languages, data structures, architectures.

1995/96   Lecturer of the theoretical computer science postgraduate course in *Semantics* at the University of Edinburgh. Subjects included: metalanguages for denotational semantics, logical relations, full abstraction, Gabriel-Ulmer duality, issues in synthetic domain theory.

1991/92 and spring term 1994   Tutor in the CS3 *Language Semantics and Implementation* course for third year Computer Science undergraduates at Edinburgh University.

Spring term 1992   Tutor in the CS3 *Programming methodology* course (software development techniques in Extended ML). As above.

Professional Experience

1992   Consultant at *Aldus Europe*, Edinburgh, U.K.

1988 - 1990   Computer Scientist at *Odyssey Research Associates, Inc*, R& D, Ithaca, New York (U.S.A.). Involved in the following projects:

- *Verification:* design and implementation of a system for formal development and verification of Ada programs. Developed a type-checker for a polymorphic specification language, involving overloading resolution and type inference.

- *Security:* designed a prototype of a *secure* information flow model, implementing it with AP5, a relational database system integrated in a LISP environment.

- *Attribute grammars:* used for declarative implementation of communication modules between front and back end of Ada compilers.

1986-1988   Computer Scientist at Tecsiel Artificial Intelligence Lab. (Italy). Involved in the development of AMICS: a multifunctional assistant for the database of the Italian Treasury Department. Designed a reasoning system for processing *underspecified* user requests in natural language. Implemented a *universal relation* interface to a large relational DBMS.

Scholarships

Faculty of Sciences Scholarship (1990-93) for postgraduate studies at the Laboratory of Foundations of Computer Science, University of Edinburgh.

Projects and Grants

2000/01: *Vigoni Project* (German - Italian research co-operation programme): "Denotational Semantics for Concurrent Object-Oriented Programming Languages".

Conference committees

Member of the organising committee of *The Value of Water: Knowledge and Rights*, March 18-20, 2004. University of Rome, "La Sapienza".

Member of the organising committee of the Italian conference *Seminario Nazionale sull'Università: otto proposte su ricerca e docenza universitaria*, December 10, 2004. University of Rome, "La Sapienza".

Skills

Wide experience with several programming languages, including "C", Java, Prolog, LISP, ML, Ada and Pascal. Familiarity with implementations of logical frameworks and type theories (e.g. LEGO). Fluent English and French. German at elementary level. A few words of *Lunfardo*.