

MSc Projects

Theoretical Computer Science



MSc Courses in Foundations of Computing

Term Rewriting Systems

Lambda Calculus

Advanced Logic

Logical Verification

Recursion Theory

MSc Courses on Concurrency

Protocol Validation

Distributed Algorithms

Concurrency Theory

Concurrency & Multithreading

Contact persons (permanent staff)

Inge Bethke (UvA)	models of computations
Jörg Endrullis (VU)	tools for term rewriting
Wan Fokkink (VU)	distributed algorithms
Alban Ponse (UvA)	short-circuit logic / process algebra
Femke van Raamsdonk (VU)	λ -calculus
Piet Rodenburg (UvA)	algebraic logic

Contact persons (postdocs)

Clemens Grabmayer functional programming

Dimitri Hendriks infinite streams

Jeroen Keiren model checking

Sample Master Projects

Theorem proving with Coq

Formal analysis of communication protocols

Executable models of biological systems

Model-based testing (company Axini in Amsterdam)

Quantum computing (Harry Buhrman, Ronald de Wolf, CWI)