GIOVANNI CIATTO

Birthday: January 4, 1992
Genre: Male
Address: Cesena (FC), Italy

Phone: (+39) 370 10 84 490
E-mail: giovanni.ciatto@unibo.it
ORCiD: 0000-0002-1841-8996
Skype: giovanni.ciatto
Web Page: https://about.me/gciatto

IN SHORT

PhD student at University of Bologna, attending the "Data Science and Computation" PhD course. Main research activity comprehends the area of distributed systems, with a particular focus on the models, architectures, and infrastructures, there including Distributed Ledger Technologies (e.g., Blockchains), technologies for Big Data management and complex event processing.

EDUCATION

PhD Student   **November, 2017 → Now**
Data Science and Computation   *University of Bologna, Italy*

· Studies in the field of Data Science and Big Data, focusing on novel enabling approaches, architectures and technologies

Master's degree   **October, 2014 → March, 2017**
Computer Science and Engineering   *University of Bologna, Italy*

· Studies in the field of programming paradigms, computational models, distributed systems coordination, robotics, machine learning and artificial vision, web applications, business intelligence, model-driven software engineering
· 110/110 *cum laude*

Master's degree thesis   **March 16, 2017**
Third generation neural networks: formalization as timed automata, validation and learning

Relator: Prof. Gianluigi Zavattaro

· Co-relators: Elisabetta De Maria, Cinzia Di Giusto (University of Nice)
· Modeling of spiking neural networks by means of the "timed automata" formalism, validation of the so-achieved model and proposal of a learning approach.
· External site: https://github.com/gciatto/snn_as_ta

Bachelor's degree   **September, 2011 → October, 2014**
Electronics, informatics and telecommunications engineering   *University of Bologna, Italy*

· Studies in the field of networking, signal processing, software engineering and programming languages.
· 110/110 *cum laude*

Bachelor's degree thesis   **October 9, 2014**
Impiego combinato di GPS, BLE e riconoscimento di immagini per individuare entit nella realt aumentata   *Relator: Prof. Mirko Viroli*

· Steering a user perceiving an augmented world by integrating GPS for long distances, bluetooth beacons for indoor localization, and marker recognition for closer objects.
· External site: http://amslaurea.unibo.it/7658/

High-school diploma **2006 → 2011**
Scientific curriculum *Liceo Scientifico "C. Caminiti", S. Teresa di Riva (ME), Italy*

· Final mark 98/100

EXPERIENCE

Teaching assistant for the course "Object oriented programming"   **Sept. → Dec., 2017**
School of Engineering and Architecture *University of Bologna, Italy*

· Foundations of the object oriented programming paradigm, design patterns, concurrency basics, and GUI development in Java
· Supervisor: Prof. Mirko Viroli

Teaching assistant for the course "Distributed Systems"   **Sept. → Dec., 2017**
School of Engineering and Architecture *University of Bologna, Italy*

· Distributed architectures. Agent-based technologies and middlewares. Computational logic, logic programming and Prolog.
· Supervisor: Prof. Andrea Omicini

Research Fellow, "Assegnista di ricerca"   **April, 2017 → October, 2017**
Department of Informatics – Science and Engineering (DISI) *University of Bologna, Italy*

· Project title: "Language and platform techniques for complex software systems development"
· Goal: producing a translation framework & runtime aimed at automatically converting COBOL sources into .NET sources
· Supervisor: Prof. Mirko Viroli Reference: Mr. Andrea Patrignani

Internship   **June, 2016 → December, 2016**
I3S Laboratory *University of Nice–Sophia Antipolis, France*

· Studies in the field of theoretical informatics applied to third generation neural networks
· Supervisors: Prof. Gianluigi Zavattaro, Prof. Cinzia Di Giusto, Prof. Elisabetta De Maria

Internship   **October, 2013 → February, 2014**
A GUI for the Alchemist Simulator *APICe lab, University of Bologna, Cesena, Italy*

· Design and implementation of a GUI for the Alchemist simulator and its integration with OpenStreetMap
· Supervisor: Prof. Mirko Viroli

LIST OF PUBLICATIONS

[1] Roberta Calegari, Giovanni Ciatto, Stefano Mariani, Enrico Denti, and Omicini Andrea. Logic programming in space-time: The case of situatedness in LPaaS. In *19th Workshop From Objects to Agents (WOA 2018)*, 2018. (Accepted).

[2] Roberta Calegari, Giovanni Ciatto, Stefano Mariani, Enrico Denti, and Andrea Omicini. Micro-intelligence for the IoT: SE challenges and practice in LPaaS. In *2018 IEEE International Conference on Cloud Engineering (IC2E 208)*, pages 292–297. IEEE Computer Society, 17–20 April 2018.

[3] Giovani Ciatto, Stefano Mariani, Andrea Omicini, Franco Zambonelli, and Maxime Louvel. Twenty years of coordination technologies: State-of-the-art and perspectives. In Giovanna Di Marzo Serugendo and Michele Loreti, editors, *COORDINATION 2018*, volume 10852 of *Lecture Notes in Computer Science*, pages 1–30. Springer, 2018. (In press).

[4] Giovanni Ciatto, Roberta Calegari, Stefano Mariani, Enrico Denti, and Omicini Andrea. From the blockchain to logic programming and back: Research perspectives. In *19th Workshop From Objects to Agents (WOA 2018)*, 2018. (Accepted).

[5] Giovanni Ciatto, Elisabetta De Maria, and Cinzia Di Giusto. Spiking neural networks as timed automata. *Proceedings of Advances in Systems and Synthetic Biology*, pages 55–68, 2017.

[6] Giovanni Ciatto, Stefano Mariani, and Andrea Omicini. Programming the interaction space effectively with ReSpecTX. *Intelligent Distributed Computing XI*, 737:89, 2017.

[7] Giovanni Ciatto, Stefano Mariani, and Andrea Omicini. ReSpecTX: Programming interaction made easy. *Computer Science and Information Systems (ComSIS)*, 2018. (Accepted with revision).

[8] Stefano Mariani, Giovanni Ciatto, and Omicini Andrea. Novel opportunities for tuple-based coordination: XPath, the Blockchain, and stream processing. In *CEUR WORKSHOP PROCEEDINGS*, volume 1867, pages 61–64. Sun SITE Central Europe, RWTH Aachen University, 2017.

LANGUAGE SELF-ASSESSMENT

	Listening	Reading	Interaction	Speaking	Writing
Italian	Native language				
English	C1	C1	C1	C1	C1
French	B1	B1	A1	A1	B1

TECHNICAL STRENGTHS

Hardware configuration — Desktop & notebook PCs assembling

Programming Paradigms — imperative, object oriented, functional, logic, constraint programming

Software configuration — Windows and Linux installation and configuration

Programming Languages — Java, Scala, Xtend, C# & VB.Net, Haskell, Prolog, JavaScript, C, Python, Minizinc, COBOL

Data Analysis Tools — Matlab/Octave, R, Python + Pandas/NumPy

Networking — Socket (TCP & UDP), HTTP, RESTful WebAPI

Databases — SQL, PostgreSQL, MySQL, IBM Informix

Development tools — Git, Mercurial, Maven, Gradle, Swagger, Xtext

Markup languages — XML, HTML, Markdown, LaTeX

IDEs — Eclipse, IntelliJ Idea, Visual Studio, Android Studio, PyCharm

ADDITIONAL INFORMATION

About me: I am an Software experienced developer and designer. I can both work alone or as a team, with or without my favorite IDEs. I prefer a *model driven* approach when designing software but I can easily switch my mind to some agile approach, like SCRUM, if needed.

Interests: formal models and languages, from both the designer and user point of view; MAS & coordination within distributed systems; logic or other declarative paradigms; artificial intelligence and machine learning; learning as much languages as possible!

Giovanni Ciatto, June 11, 2018