

Personal Information

Name and Surname: Alejandro Zlatko TOMSIC
Address: 39bis Rue de Montreuil
Zip Code, City: 94300, Vincennes
Country: France
Telephone (mobile): +33695255627
E-mail: alejandro.tomsic@inria.fr
Nationality: Argentine/Spanish
Date and Place of Birth: 14/06/1984, Buenos Aires

Ongoing Education

Title: PhD Candidate at INRIA, Paris, France
Website: <http://www.inria.fr/en/>
Dates: From 02/2014 to date.
Supervisor: Marc Shapiro (<http://pagesperso-systeme.lip6.fr/Marc.Shapiro/>)
Main Subjects: Working on the SyncFree European project (<https://syncfree.lip6.fr/>). The project explores new principled approaches to consistency in geo-distributed environments. I am particularly researching on scalable transactional protocols ensuring different levels of consistency and on different ways of reasoning about application correctness. Also, I am developing Antidote (<https://github.com/SyncFree/antidote>), which is a distributed CRDT (commutative replicated data types) key-value store written in Erlang that serves as reference platform for the project.

List of publications

DEVAKI AKKOORATH, TOMSIC, A., BRAVO, M., LI, Z., D., CRAIN, T., BIENIUSA, A., PREGUIÇA, N., SHAPIRO, M. **Cure: strong semantics meets high availability and low latency**, Submitted to ICDCS 2016.

TOMSIC, A., CRAIN, T., SHAPIRO, M. **Scaling geo-replicated databases to the MEC environment**. In 3rd Workshop on Planetary-Scale Distributed Systems (in conjunction with SRDS 2015), Montreal, Canada, September 2015.

TOMSIC, A., CRAIN, T., SHAPIRO, M. **An empirical perspective on causal consistency**. In 1st Workshop on Principles and Practice of Consistency for Distributed Data (in conjunction with Eurosys 2015), Bordeaux, France, April 2015.

TOMSIC, A., SENS, P., GARCIA, J., ARANTES, L., AND SOPENA, J. **2W-FD: a failure detector algorithm with QoS**. In 29th IEEE International Parallel & Distributed Processing Symposium, Hyderabad, India, May 2015.

Teaching and students supervision

Teaching Assistant	Polytech, Université Pierre et Marie Curie 09/2014 – 11/2014 Assisted the course “OS User”, teaching practical courses and correcting exams.
Master Thesis Co-supervision	INRIA - Université Pierre et Marie Curie 07/2015 – 02/2016 Co-supervised a master student’s thesis entitled “Scalable caching and logging for multiversion geo-replicated storage”
Student projects Co-supervision	Université Pierre et Marie Curie 01/2016 – 05/2016 Supervision of six student projects regarding large scale benchmarks on distributed databases.
Master thesis jury	Université Catholique de Louvain la Neuve (Belgium) 01/2016 Participated as jury in the thesis defense entitled “Explicit Causality in Geo-distributed No-SQL Databases”

Grants

I obtained a student travel grant to assist the Eurosys 2015 conference, where I presented a paper at the PaPoC workshop.

Work & Education (Last)

Employer:	Université Pierre et Marie Curie Laboratoire d'Informatique Paris 6 (LIP6).
Dates:	04/2013 to 10/13
Field of Activity:	Computer Science - Distributed Systems
Position Held:	Research Intern
Supervisor:	Pierre Sens < pierre.sens@lip6.fr >
Project:	Failure Detection in Cloud Environments
Main Activities and Responsibilities:	Development of an algorithm for adapting physical machines failure detector systems to Virtual Machines according to their specific requirements on Quality of Service. Implementation and evaluation of the designed solution and the existing ones for comparison. Paper appeared in IPDPS 2015.

Education (Previous)

Title:	EMDC “European Master in Distributed Computing”
Website:	http://www.kth.se/en/studies/programmes/master/em/emdc
Dates:	From 08/2011 09/13
Involved Organizations:	KTH (Kungliga Tekniska högskolan), Stockholm, Sweeden UPC (Universidad Politécnic de Catalunya)Barcelona, Spain IST (Instituto Superior Técnico), Lisboa, Portugal
Grade Point Average:	16/20 (Final)
Main Subjects:	Network and Computer Security, Peer-to-Peer Systems and Overlay Networks, Parallel and Distributed Computing Programming, Cloud Computing, Virtual Execution Environments, Mobile Computing, Cryptographic Algorithms, Database Administration and Tuning, Distributed Computing, Scalable Distributed Systems, Fault-Tolerance in Distributed Systems, Distributed Internet Applications, Technical Writing.
Statutory Duration:	Two years

University Education

Title:	“Ingeniería en Computación” (Computer Engineering)
Dates:	From 03/2003 to 10/2009
Organization:	U.N.T. Universidad Nacional de Tucumán (National University of Tucumán)
Grade Point Average:	8.3/10 Awarded for the 8th position of the University (2009)
Title of Degree Awarded:	Ingeniero en Computación (Computer Engineer)
Main Subjects:	Mathematics, Physics, Statistics, Electronics, Computer's Architecture, Computer Networks (LAN and WAN), Programming Languages and Software Engineering
Statutory Duration:	Five years
Title of Final Project:	“Computación Distribuida, Clústers de Misión Crítica y Alta Performance sobre Linux” (Distributed Computing, Mission Critical and High Performance Clusters Running Linux).

Spoken Languages

Spanish:	Native
English:	Fluent Speaker, scientific writing skills.
Portuguese:	Intermediate to Advanced Speaking and Writing
French:	B2

Personal Interests

Djing, Electronic Music Production, Music Theory, Keyboard and Piano, Concerts, Dancing, Event Organization, Photography, Cycling, Running, Football, Golf, Reading, Meeting people, food and places.

Professional Experience (more)

Employer:	INESC-ID (Institute of Engineering and Computer Systems, Investigation and Development), Lisbon, Portugal
Dates:	04/2012 to 04/2013
Involved Organizations:	S2 Grupo (ES) Technische Universitaet Muenchen (DE) The Irish Software Engineering Research Center (IE) TXT E-Solutions SPA (IT) Prodevelop (ES)
Field of Activity:	Development
Position Held:	Java Development
Supervisor:	João Garcia jog@gsd.inesc-id.pt
Project:	FastFIX https://services.txt.it/fastfix-project/?q=About
Main Activities and Responsibilities:	Java Programming.
Employer:	RF Comunicaciones S.R.L.
Dates:	07/2008 to 08/2011
Field of Activity:	WISP (Wireless Internet Service Provider) and Telecommunications; voice and data wireless communications in places where connectivity is nonexistent.
Position Held:	Project Manager
Supervisor:	Daniel Tomsic daniel_tomsic@rfcom.com.ar
Employer:	Tecpetrol S.A. (Techint Group)
Dates:	01/2008 to 07/2008.
Field of Activity:	Energy, Oil and Gas Extraction and Exploration, Gas and Electricity transportation and distribution.
Position Held:	Ordinary Internship.
Supervisor:	Pedro Prato pprato@tecpetrol.com.ar

Courses and Training

- Title:** **Cisco Certified Network Associate (CCNA)**
Dates: From 07/2010 to 09/2010
Organization: CentralTech S.A. (Buenos Aires, Argentina)
Course Content: This course validates the ability to install, configure, operate, and troubleshoot medium-size route and switched networks, including implementation and verification of connections to remote sites in a WAN (Wide Area Network).
- Title:** **“El Desafío de Emprender” (The Challenge of Undertaking).**
Dates: 10/2008
Organization: U.N.T. Universidad Nacional de Tucumán (National University of Tucumán).
Course Content: Seminar taught by professionals in the field of computer engineering who have the experience of having started their own company. Dedicated to encourage students and recently graduated engineers to undertake their own projects.
- Title:** **“Diseño y Programación de Video Juegos” (Video Game Design and Programming).**
Dates: 09/2008
Organization: U.N.T. Universidad Nacional de Tucumán (National University of Tucumán).
Course Content: Seminar given by computer engineering graduates working in the field of video games in European countries.
- Title:** **“Patrones de Diseño de Software” (Software Design Patterns).**
Dates: 09/2008
Organization: U.N.T. Universidad Nacional de Tucumán (National University of Tucumán).
Course Content: Seminar dictated by computer engineers graduated from U.N.T. who work in Software Engineering.
- Title:** **Motorola Wireless Field Engineer (MWFE)**
Dates: 08/2008
Organization: IT College S.A. (Buenos Aires, Argentina)
Course Content: This course validates the ability to work with Motorola Wireless equipment and to design Point to Point (PTP), Point to Multipoint (PMP) and Mesh Networks.
- Title:** **The Five Year Course in English.**
Dates: 1995 to 1999
Organization: ATICANA “Asociación Tucumana de Intercambio Cultural Argentino Norteamericano” (Argentine-American Cultural Exchange Association in Tucumán).