Aniello De Santo

Curriculum vitae et studiorum

Department of Linguistics
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Personal Information

Date of birth   Atripalda (Av), May 20, 1989   **Nationality**   Italian

Education and Training

Present   **Ph.D. Student**, *Stony Brook University*, Department of Linguistics.

February 2014   **Master's Degree in Computer Science and Engineering**, *Università degli Studi di Pavia*, Curriculum in Systems' Theory and Control.
Thesis' Title: Unexplained User Behaviours in Online Social Networks

December 2011   **Bachelor 's Degree in Computer Science and Engineering**, *Università degli Studi di Pavia*.
Thesis' Title: Model Individualization for the automatic control of glycemia in Type I Diabetes

July 2007   **High School diploma**, *Liceo scientifico P.S. Mancini*, Avellino, Curriculum in Science and Languages.

Peer-Reviewed Conference Proceedings

○ T. Graf, A. Aksënova and A. De Santo *A Single Movement Normal Form for Minimalist Grammars*, Proceedings of the 21st Conference on Formal Grammar (FG-2016)

○ A. De Santo, A. Aksënova and T. Graf *An Alternate View on Strong Lexicalization in TAG*, Proceedings of the Twelfth International Workshop on Tree-Adjoining Grammars and Related Formalisms (TAG+) 2016

○ F. Colace, M. De Santo, A. De Santo, A. Picariello *Connecting Times: Using Smart Technologies For Enhancing Ancient Downtowns Experience*, Proceedings of the 3rd International Conference of Information and Communication Technology (ICoICT 2015)

○ F. Amato, A. De Santo, V. Moscato, A. Picariello, D. Serpico and G. Sperlí *A lexicon-grammar based methodology for Ontology population in e-health applications*, Proceedings of the 9-th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS 2015)

○ F. Amato, A. De Santo, F. Gargiulo, V. Moscato, F. Persia, A. Picariello and S. R. Poccia *SemTree: an index for supporting semantic retrieval of documents*, Proceedings of the IEEE DESWeb ICDE 2015

- F. Amato, A. De Santo, F. Gargiulo, V. Moscato, F. Persia, A. Picariello and G. Sperlí *A novel approach to query expansion based on semantic similarity measures*, Proceedings of the 4th International Conference on Data Management Technologies and Applications (DATA 2015)
- F. Amato, A. De Santo, V. Moscato, F. Persia, S. R. Poccia and A. Picariello *Partitioning of ontologies driven by a structure-based approach*, Proceedings of the IEEE 9th International Conference on Semantic Computing (ICSC2015)
- F.Amato, A. De Santo, V. Moscato, F. Persia, A. Picariello, S. R. Poccia, G-Sperlí *A structure-based approach for ontology partitioning*, Proceedings of SEBD 2015: 184-191
- F. Amato, A. De Santo, V. Moscato, F. Persia and A. Picariello *Detecting unexplained human behaviors in Social Networks*, Proceedings of the IEEE Eight International Conference on Semantic Computing (ICSC2014)
- F. Persia, F. Amato, F. Gargiulo, S. R. Poccia, and A. De Santo *Finding unexplained human behaviors in Social Networks* Proceedings of the 22nd Italian Symposium on Advanced Database Systems (SEBD2014), Discussion Paper

Book Chapters

- S.K. Chang, L. Greco, A. De Santo *Sentiment detection in social networks using semantic analysis: a tool for sentiment analysis and its application in cultural heritage realm.* In *Data Management in Pervasive Systems*, Chapter 9. Colace *et al.* Editors, Springer Verlag, Berlin (2015)
- F. Amato, L. Greco, F. Persia, S.R. Poccia, A. De Santo *Content-based multimedia retrieval* In *Data Management in Pervasive Systems*, Chapter 14. Colace *et al.* Editors, Springer Verlag, Berlin (2015)

Talks and Posters

- *An Alternate View on Strong Lexicalization in TAG* Twelfth International Workshop on Tree-Adjoining Grammars and Related Formalisms (TAG+) 2016, June 29 - July 1, 2016, Düsseldorf
- *Connecting Times: Using Smart Technologies For Enhancing Ancient Downtowns Experience* 3rd International Conference of Information and Communication Technology (ICoICT 2015), May 27-29, 2015, Bali, Indonesia
- *Finding unexplained human behaviors in Social Networks* 22nd Italian Symposium on Advanced Database Systems

Invited Talks

- *What the Dialects can teach us about Italian: the case of Irpino*, Richard Nasti Lecture Series, Stony Brook University Center for Italian Studies, October 4, 2016

Scholarships and awards

- Travel Grant to conduct field work in Irpinia (Italy), on a project about *Raddoppiamento fonosintattico* in the Irpino Dialect. Awarded by the *Center for Italian Studies*, Stony Brook University, June 2016.
- Research Scholarship on the project *Networks of Excellence - EMBEDDED SYSTEMS in Critical Domains*, Università degli Studi *Federico II* di Napoli, Rif. Borsa DIETI 30/2014
- Research Scholarship on the project *SmartHealth - Methodologies for natural language processing in clinical applications*, Università degli Studi *Federico II* di Napoli, RIF. DIETI 47/2014

Teaching

Summer 2016	**Language and Technology (LIN120)**, *Stony Brook University*, Instructor.
Spring 2016	**Language and Speech Disorders (LIN380)**, *Stony Brook University*, Teaching Assistant.
Fall 2015	**Language and Technology (LIN425)**, *Stony Brook University*, Teaching Assistant.
Spring 2015	**Multimedia Systems and Applications**, *Università degli Studi* Federico II *di Napoli*, Teaching Assistant.
Fall 2014	**Foundations of Computer Science**, *Università degli Studi* Federico II *di Napoli*, Teaching Assistant.
Fall 2014	**Introduction to Data Base Systems**, *Università degli Studi* Federico II *di Napoli*, Teaching Assistant.

Research Positions

05/2014–08/2015	**Temporary Research Assistant**, *DIETI, Università degli Studi* Federico II *di Napoli*.
	I worked on statistical models, formal languages, NLP techniques, game theory and graph theory applied to social networks analysis, big data analytics, semantic analysis.
09/2013-02/2014	**Research Internship**, *LABADAM, Università degli Studi* Federico II *di Napoli*, Supervisor: Prof. Antonio Picariello.
	I developed statistical models and a probabilistic framework for the detection of unexplained user behaviors in online social networks. The research resulted in my Master's Thesis and in several peer-reviewed conference papers.
02/2012–09/2012	**Research Internship**, *Identification and Control of Dynamic Systems (ICDS) Laboratory, Università degli Studi di Pavia*, Main supervisor: Prof. Lalo Magni.
	I worked on models for the automatic control of glycaemia in Type I Diabetes, within the AP@Home Project sponsored by the Juvenile Diabetes Research Foundation. The research conducted during this internship resulted in my bachelor's thesis

Service

- Program Committee Member for the *2014 2nd International Workshop on Cloud and Distributed System Applications (CADSA)*

- Reviewer for the *International Journal of Big Data Intelligence*, Inderscience Publisher (From October, 2014)

Non Academic Work Experience

September-December 2012	**Translator and proof-reader**, *Fanucci Editore.* As member of the SMTeam I worked as proof-reader on the new italian edition of the Wheel of Time cycle by Robert Jordan.
2009–2012	**Didactics integration activities and remedial lessons for students in need**, *Private employer*, Pavia.
2009–2012	**Waiter**, *Restaurant Alla Corte*, Trivolzio (PV).

Volunteer Experience

August 2009	**Educator and Teacher**, *Belo Horizonte, Brasil.* I was a volunteer at *Obras Educativas Padre Giussani* Kindergartens
2008-2013	**Acting CEO**, *Student Assistance Cooperative (CUSL)*, Pavia. Starting from front office duties, at the beginning of the second year I was made responsible of the staff management and administrative supervision of the company activities
2008-2013	**Banco Alimentare Association**, *Pavia and Naples.* I took part to the events organized by the association to collect food from in excess from supermarkets and distribute it to families in need
September 2013 - July 2015	**Educator**, *Avellino.* I served as an educator for middle-school children

Languages

Italian	**Mothertongue**	*Mothertongue*
English	**Advanced**	*TOEFL 112/120, FCE Cambridge, Level 10 Trinity GESE*
German	**Base**	*FIT, Level A2*
French	**Base**	*Level A1*

Computer Skills

OS	MacOS, Unix/Linux, Windows	**Coding**	*(In decreasing order of Proficiency)* LaTeX; Python and NLTK; Matlab/Simulink; Java; C; Assembly languages (ARM, x86); SQL; Prolog; Jess; Labview

Additional Information and Personal Interests

- While at the University of Pavia I was, for multiple mandates, **Student Delegate** to: the Faculty and Educational Boards of the School of Engineering, the Educational Board of the *Industrial and Information Engineering* Department, the University Library Committee

- In December 2011, I was an invited speaker at a three day convention for freshmen, delivering a lesson titled *The human dilemma in Dostoevskij.* In March I was also a guide to the exhibition *150 years of Italy*