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

Academic Affilitation

2015 - Present   **Ph.D. Student**, *Department of Linguistics*, Stony Brook University.

2017 - Present   **Affiliated Student**, *Institute for Advanced Computational Science (IACS)*, Stony Brook University.

Education

2011-2013   **Master's Degree in Computer Science and Engineering**, *Università degli Studi di Pavia*, Curriculum in Theory and Control of Dynamic Systems.
Thesis: Unexplained User Behaviours in Online Social Networks

2007-2011   **Bachelor 's Degree in Computer Science and Engineering**, *Università degli Studi di Pavia*.
Thesis: Individualization of models for the automatic control of glycemia in Type I Diabetes

2002-2007   **High School diploma**, *Liceo scientifico P.S. Mancini*, Avellino, Curriculum in Science and Languages.

Additional Education

07/2017   **29th European Summer School in Logic, Language, and Information (ESSLI)**, *University of Toulouse (France)*, 7–28 July, 2017.

10/2016   **Online Education Symposium**, *Stony Brook University*, October 21, 2016, Stony Brook, NY.

Journal Papers

- A. De Santo. (2018) *Commentary: Developmental Constraints on Learning Artificial Grammars with Fixed, Flexible, and Free Word Order*. Front. Psychol. 9:276. doi: 10.3389/fpsyg.2018.00276.

- F. Amato, A. Castiglione, A. De Santo, V. Moscato, A. Picariello, F. Persia, G. Sperli. (2018) *Recognizing human behaviours in online social networks*, Computers & Security , Available online 9 June 2017, ISSN 0167-4048, https://doi.org/10.1016/j.cose.2017.06.002.

Peer-Reviewed 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

Abstract Reviewed Proceedings

- A. De Santo, J. Rawski, A. Yazdani, and J. E. Drury. *Quantified Sentences as a Window into Prediction and Priming: An ERP Study.* In Proceedings of the 54th meeting of Chicago Linguistics Society (CLS 54). Chicago, IL. (to appear).
- A. Aksënova and A. De Santo *Strict Locality in Morphological Derivations.* To appear in the Proceedings of the 53rd Chicago Linguistic Society (CLS 53). Chicago, IL. 2017.

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

- with J. Rawski, A. Yazdani, and J. E. Drury. *Quantified Sentences as a Window into Prediction and Priming: An ERP Study.* Talk at CLS 54, April 26-28 2018, Chicago, IL.
- *Extending TSL to Account for Interactions of Local and Non-Local Constraints.* Poster at the Society for Computation in Linguistics (SCiL) 2018, Salt Lake City, Utah, January 4–7, 2018.
- with J. Rawski, and J. E. Drury. *ERP effects for quantifier complexity, priming, and truth-value in an auditory/visual verification task.* Poster at the Society for the Neurobiology of Language (SNL) 2017, Baltimore, Maryland. (upcoming)
- with J. Rawski, and J. Heinz. *Reconciling Minimum Description Length with Grammar-Independent Complexity Measures.* Poster at MIT Workshop on Simplicity in Grammar Learning, September 23, 2017.
- with T. Graf, and J. E. Drury. *Evaluating Subregular Distinctions in the Complexity of Generalized Quantifiers.* Talk at ESSLLI 29th's Workshop on Quantifiers and Determiners (QUAD 2017), July 17 – 21, Toulouse, France.
- with A. Aksënova, *Strict Locality in Morphological Derivations.* Talk at CLS 53, May 25-27 2017, Chicago, IL.
- *One class to rule them all? A study of TSL languages motivated by typological outliers.* Poster presented at PLC 41, March 24-25 2017, Philadephia, PA
- *A game of tiers: Exploring the formal properties of TSL languages.* Computational Phonology Workshop at Stony Brook University, December 16, 2016, Stony Brook, NY

- with A. Aksënova and T. Graf, *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
- with F. Colace, M. De Santo, A. Picariello, *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
- with F. Amato, V. Moscato, F. Persia, A. Picariello, *Finding unexplained human behaviors in Social Networks* 22nd Italian Symposium on Advanced Database Systems

Invited Talks

- with A. Aksënova. *n-Gram Models of Morphological Derivations.* Invited Poster. Institute for Advanced Computational Sciences (IACS)'s Five-Year Review, September 7, 2017, Stony Brook University, Stony Brook, NY.
- *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 (Repeated on February 2017)

Scholarships and awards

- Sigma Xi Travel Award for Excellence in Research. Stony Brook University, May 2017.
- 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

Fall 2017	**Language and Technology (LIN120)**, *Stony Brook University*, Teaching Assistant, Instructor: Thomas Graf.
Spring 2017	**Language and Mind (LIN426)**, *Stony Brook University*, Teaching Assistant, Instructor: John E. Drury.
Winter 2017	**Language and Life in Italy (LIN120)**, *Stony Brook University*, Instructor.
Fall 2016	**Language and Technology (LIN120)**, *Stony Brook University*, Teaching Assistant, Instructor: Thomas Graf.
Summer 2016	**Language and Technology (LIN120)**, *Stony Brook University*, Instructor.

Spring 2016   **Language and Speech Disorders (LIN380)**, *Stony Brook University*, Teaching Assistant, Instructor: Joseph Hoffman.

Fall 2015   **Language and Technology (LIN425)**, *Stony Brook University*, Teaching Assistant, Instructor:Thomas Graf.

Spring 2015   **Multimedia Systems and Applications**, *Università degli Studi* Federico II *di Napoli*, Teaching Assistant, Instructor: Antonio Picariello.

Fall 2014   **Foundations of Computer Science**, *Università degli Studi* Federico II *di Napoli*, Teaching Assistant, Instructor: Antonio Picariello.

Fall 2014   **Introduction to Data Base Systems**, *Università degli Studi* Federico II *di Napoli*, Teaching Assistant, Instructor: Vincenzo Moscato.

Research Positions

05/2014–   **Research Assistant**, *DIETI, Università degli Studi* Federico II *di Napoli*.
08/2015   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-   **Research Internship**, *LABADAM, Università degli Studi* Federico II *di Napoli*,
02/2014   Supervisor: Prof. Antonio Picariello. Main Advisor: Prof. Virginio Cantoni.
I developed statistical models and a probabilistic framework for the detection of unexplained user behaviors in online social networks.

02/2012–   **Research Internship**, *Identification and Control of Dynamic Systems (ICDS) Laboratory, Università degli Studi di Pavia*, Main supervisor: Prof. Lalo Magni.
09/2012   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.

Service

- Reviewer for *Biolinguistics* (2017; 2018)
- Reviewer for the *International Journal of Big Data Intelligence*, Inderscience Publisher (2014)
- Program Committee Member for the *2014 2nd International Workshop on Cloud and Distributed System Applications (CADSA)*

Computer Skills

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

Non Academic Work Experience

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).

Languages

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

Volunteer Experience

08/2009 **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 (IT).

2008–2013 **Banco Alimentare Association**, *Pavia and Naples (IT)*.

2013 – 2015 **Educator**, *Avellino (IT)*.
I served as an educator for middle-school children