

Aniello De Santo

Curriculum vitae et studiorum

Department of Linguistics
Stony Brook University
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Academic Affiliation

- 2015 - **Ph.D. Student** Department of Linguistics, Stony Brook University
Present
- 2017 - **Affiliated Student** Institute for Advanced Computational Science (IACS),
Present 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

Journal Papers

- 2018 **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, ISSN 0167-4048, <https://doi.org/10.1016/j.cose.2017.06.002>.

Peer-Reviewed Proceedings Papers

- 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
- 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)

- 2015 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
- 2014 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

- 2018 **A. De Santo**, J. Rawski, A. Yazdani, and J. E. Drury. *Quantified Sentences as a Window into Prediction and Priming: An ERP Study*. Proceedings of the 54th meeting of Chicago Linguistics Society (CLS 54). Chicago, IL. (to appear).
- 2017 A. Aksénova and **A. De Santo**. *Strict Locality in Morphological Derivations*. Proceedings of the 53rd Chicago Linguistic Society (CLS 53). Chicago, IL. 2017.

Book Chapters

- 2015 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 (without Proceedings)

(for co-authored talks: * personally presented)

- Upcoming K. McMullin, A. Aksënova, and **A. De Santo**. *Learning phonotactic restrictions on multiple tiers*. Talk at the Society for Computation in Linguistics (SCiL) 2019, New York City, NY.
- 2018 T. Graf, A. Aksënova, H. Baek, **A. De Santo**, H. Dolatian, S. Moradi, J. Rawski, S. Yang, and J. Heinz. *Tiers and Relativized Locality Across Language Modules*. * Parallels Between Phonology and Syntax Workshop. Amsterdam, Meertens Instituut, July 9, 2018
- A. De Santo**. *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.
- 2017 **A. De Santo**, 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.
- J. Rawski, **A. De Santo**, and J. Heinz. *Reconciling Minimum Description Length with Grammar-Independent Complexity Measures*. * Poster at MIT Workshop on Simplicity in Grammar Learning, September 23, 2017.
- A. De Santo**, 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.
- A. De Santo**. *One class to rule them all? A study of TSL languages motivated by typological outliers*. Poster presented at PLC 41, March 24-25 2017, Philadelphia, PA
- 2016 **A. De Santo**. *A game of tiers: Exploring the formal properties of TSL languages*. Computational Phonology Workshop at Stony Brook University, December 16, 2016, Stony Brook, NY

Invited Talks

- 2017 A. Aksënova and **A. De Santo**. *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.
- 2016 **A. De Santo**. *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

- Institute for Advanced Computational Science (IACS) Travel Award. Stony Brook University, July 2018.
- Department of Linguistics Travel Award. Stony Brook University, December 2017.

- Sigma Xi Travel Award for Excellence in Research. Stony Brook University, May 2017.
- Department of Linguistics Travel Award. Stony Brook University, December 2016.
- 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 2018 **Language in the USA (LIN200)** Stony Brook University. Instructor
- 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

- 05/2014–08/2015 **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– **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)
 09/2012 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.

Other Positions

- 01/2018– **Graduate Assistant** Stony Brook University PIs: Andrei Antonenko, Mark present
 Aronoff, Lori Repetti
 S-BOLD (Stony Brook Online Learning Development) Project — convert SBU largest general education course in linguistics (LIN 200 – Language in the USA) into an online format

Additional Education

- 07/2017 **29th European Summer School in Logic, Language, and Information (ESSLLI)** University of Toulouse (France) 7–28 July, 2017
- 10/2016 **Online Education Symposium** Stony Brook University October 21, 2016, Stony Brook, NY

Service

- Reviewer for *Biolinguistics* (2017; 2018)
- Reviewer for *SYNC* (2016; 2017; 2018)
- Reviewer for the *International Journal of Big Data Intelligence*, Inderscience Publisher (2014)
- Program Committee Member for the *2nd International Workshop on Cloud and Distributed System Applications* (2014)

Computer Skills

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|----------------|---|---------------|---|
| OS | MacOS, Unix/Linux, Windows | Coding | <i>(In decreasing order of Proficiency)</i> Python and NLTK; R; Matlab/Simulink; Java; C; Assembly languages (ARM, x86); SQL; Prolog; Jess; Labview |
| Editing | L ^A T _E X, Markdown, Office Suite | | |

Languages

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

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)