Aniello De Santo

Curriculum vitae et studiorum

Department of Linguistics
University Of Utah
aniello.desanto@utah.edu
aniellodesanto.github.io
MeLo Lab

Academic Affiliation

July 2020 - Present **Assistant Professor** Department of Linguistics, University of Utah.
Director: Mathematics of Language and Cognition (MeLo) Lab
Coordinator: Computational Linguistics Certificate
Affiliated Faculty: Speech Acquisition Lab, Office of Undergraduate Research

Education

2015 - 2020 **Ph.D.** Department of Linguistics, Stony Brook University.
Dissertation *"Structure and Memory: A Computational Model of Storage, Gradience, and Priming"*

2017 - 2020 **Affiliated Student** Institute for Advanced Computational Science (IACS), Stony Brook University

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"*

Journal Articles

To Appear A. Buxo-Lugo, **A. De Santo**, M. Grobol, R. J Hubbard, C. L Jacobs. *surprisal is Not a Theory*. Journal of Language Modeling.

2024 D. Levenstein, **A. De Santo**, S. Heijnen, F. Oude Maatman, M. Narayan, J. Rawski, C. Wright. *How do theoretical virtues depend on their problem-space?*. Computational Brain and Behavior.

S.Y. Lee, **A. De Santo**. *Online evidence for pseudo-relative effects on Italian RC attachment resolution*. Language, Cognition and Neuroscience (2024): 1-18.

G. Baggio, **A. De Santo**, N. A. Nunez. *Minimal plausibility, community and early theory in Cognitive Science*. Computational Brain and Behavior.

2023 P. Cepeda, A. Antonenko, M. Aronoff, R. Christianen, **A. De Santo**, J. Jaiswal, J. Y. Kim, M. Mayro, V. Miatto, Veronica, and L. Repetti. *Language in the United States: An innovative learner-centered asynchronous general-education course in linguistics*. Language.

A. De Santo, A. Ferraro, A. Galli, V. Moscato, G. Sperli. *An action–reaction influence model relying on OSN user-generated content*. Knowledge and Information Systems.

2022 **A. De Santo**, A. Ferraro, A. Galli, V. Moscato, G. Sperli. *Evaluating time series encoding techniques for Predictive Maintenance*. Expert Systems With Applications.

2021 **A. De Santo** *Italian Postverbal Subjects from a Minimalist Parsing Perspective.* Lingue e Linguaggio.

A. De Santo, A. Galli, V. Moscato, G. Sperli. *A deep learning approach for semi-supervised community detection in Online Social Networks.* Knowledge-Based Systems.

A. De Santo, A. Galli, M. Gravina, V. Moscato, G. Sperli. *Deep Learning for HDD health assessment: an application based on LSTM*. IEEE Transactions on Computers.

2020 **A. De Santo** and J. Rawski. *What can formal language theory do for animal cognition studies?* Royal Society Open Science.

2018 **A. De Santo**. *Commentary: Developmental Constraints on Learning Artificial Grammars with Fixed, Flexible, and Free Word Order*. Front. Psychol. 9:276.

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.

Peer-Reviewed Proceedings Articles

2026 J. Paulson, **A. De Santo**, J. Rawski.. *A Feature-Driven Tensor Semantics for Minimalist Grammars*. Proceedings of the Society for Computation in Linguistics (SCiL) 2026.

M. Kamerath, **A. De Santo**. *Investigating Syntactic Biases in Multilingual Transformers with RC Attachment Ambiguities in Italian and English*. Proceedings of the Society for Computation in Linguistics (SCiL) 2026.

2025 **A. De Santo**. *Capturing Online SRC/ORC Effort with Memory Measures from a Minimalist Parser*. Proceedings of Cognitive Modeling and Computational Linguistics Workshop (CMCL) 2025. (**Best Paper Award**).

2024 J.K. Johnson and **A. De Santo**. *Online Learning of ITSL Grammars*. Proceedings of the Society for Computation in Linguistics (SCiL) 2024.

2023 C. Miller and **A. De Santo**. *Extending Finite-state Models of Reduplication to Tone in Thai*. Proceedings of the Society for Computation in Linguistics (SCiL) 2023.

M. Fiorini, J. Chang, and **A. De Santo**. *An MG Parsing View into the Processing of Subject and Object Relative Clauses in Basque*. Proceedings of the Society for Computation in Linguistics (SCiL) 2023.

2022 M. H. Vu, **A. De Santo**, and H. Dolatian. *Logical Transductions for the Typology of Ditransitive Prosody*. Proceedings of SIGMORPHON 19th (2022). Seattle July 14, 2022.

A. De Santo and S. Y. Lee. *Evaluating Structural Economy Claims in Relative Clause Attachment*. Proceedings of the Society for Computation in Linguistics (SCiL) 2022. Vol. 5, 65-75. Held Virtually Feb 7-9, 2022.

2021 H. Dolatian, **A. De Santo** and T. Graf. *Recursive Prosody is not Finite State*. Proceedings of SIGMORPHON 18th (2021). Held virtually August 5, 2021.

A. De Santo and A. Aksënova. *Learning Interactions of Local and Non-Local Phonotactic Constraints from Positive Input*. Proceedings of the Society for Computation in Linguistics (SCiL) 2021. Held virtually February 15-19, 2021.

A. De Santo.*A Minimalist Approach to Facilitatory Effects in Stacked Relative Clauses*. Proceedings of the Society for Computation in Linguistics (SCiL) 2021. Held virtually February 15-19, 2021.

2020 Antonio Galli, Vincenzo Moscato, Giancarlo Sperli, and **A. De Santo**.*An Explainable Artificial Intelligence Methodology for Hard Disk Fault Prediction*. Proceedings of the 2020 International Conference on Database and Expert Systems Applications (DEXA2020). Held virtually September 14-17, 2020.

A. De Santo. *MG Parsing as a Model of Gradient Acceptability in Syntactic Islands*. Proceedings of the Society for Computation in Linguistics (SCiL) 2020.

2019 T. Graf and **A. De Santo**. *Sensing Tree Automata as a Model of Syntactic Dependencies.* Proceedings of the 16th Meeting on the Mathematics of Language (MOL) 2019.

A. De Santo and T. Graf. *Structure Sensitive Tier Projection: Applications and Formal Properties*. Proceedings of the 24st Conference on Formal Grammar (FG) 2019.

A. De Santo. *Testing a Minimalist Grammars Parser on Italian Relative Clause Asymmetries*. Proceedings of the ACL Cognitive Modeling and Computational Linguistics Workshop (CMCL) 2019.

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

Book Chapters and Reviews

2022 **A. De Santo**. *Finite-State Text Processing by Kyle Gorman and Richard Sproat*. In *Computational Linguistics* (2022).

A. De Santo and J. Rawski. *Mathematical linguistics and cognitive complexity.* In *Handbook of Cognitive Mathematics*, Springer Nature (2022).

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 the 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).

Abstract Reviewed Articles

2024 S.Y. Lee and **A. De Santo** *Exploring Variation in English and Italian Relative Clause Attachment: The Role of Coordination*. Proceedings of the LSA Annual Meeting 2024.

2023 J.K. Johnson and **A. De Santo**. *Evaluating a Phonotactic Learner for MITSL Languages*. (Extended Abstract). Proceedings of SCiL 2023.

2022 S. Y. Lee and **A. De Santo**. *A computational view into the structure of attachment ambiguities in Chinese and Korean*. Proceedings of NELS 52.

2019 **A. De Santo** and J. E. Drury. *Encoding and Verification Effects of Generalized Quantifiers on Working Memory*. Proceedings of the 55th meeting of the Chicago Linguistics Society (CLS 55). Chicago, IL.

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 the Chicago Linguistics Society (CLS 54). Chicago, IL. 2018.

2017 A. Aksënova and **A. De Santo**. *Strict Locality in Morphological Derivations*. Proceedings of the 53rd Chicago Linguistic Society (CLS 53). Chicago, IL. 2017.

Manuscripts

Under review **A. De Santo** and S.Y. Lee. *Length Effects in Relative Clause Attachment: Revisiting Hemforth et al. (2015).* (Registered report, Conditionally Accepted Stage 1, email for a draft)

Under review **A. De Santo**. *Can categorical grammars really lead to gradient acceptability?* (email for a draft)

Talks and Posters

(for co-authored talks: * personally presented)

Upcoming **A. De Santo**, J. (JP) Paulson. *On the Subregular Treatment of First-Last Harmony Patterns.* Poster at the 2027 LSA Annual Meeting. January6-9, 2027.

O. Ziemelis and **A. De Santo**. *A Subregular Account of Latvian Case.* Poster at the 2027 LSA Annual Meeting. January6-9, 2027.

2026 **A. De Santo**, S. Barrios, and R. Hayes-Harb. *Who's Talking? Exploring the Effect of Perceived Race on English Acceptability Judgments.* Poster at New Ways of Analyzing Variation (NWAV) 54. October 22-24, 2026.

O. Adebayo and **A. De Santo**. *Modeling Stem-Internal ATR Harmony in Iyinno with Tier-Based Strictly Local Grammar.* Poster at AMP 2026. October 9-11, 2026.

S. Y. Lee and **A. De Santo**. *Wh-in-Situ, Scrambling, and Scope Locality.* Talk at 2026 SMOG International Conference on Syntax and Semantics. August 18-19, 2026.

S. Y. Lee and **A. De Santo**. *When Korean RCs Fit Both Attachment Sites.* Poster at the International Conference on Korean Linguistics (ICKL). July 2026.

J. Paulson, **A. De Santo**, J. Rawski.. *A Feature-Driven Tensor Semantics for Minimalist Grammars*. Talk athe Society for Computation in Linguistics (SCiL) 2026.

M. Kamerath, **A. De Santo**. *Investigating Syntactic Biases in Multilingual Transformers with RC Attachment Ambiguities in Italian and English*. Talk at the Society for Computation in Linguistics (SCiL) 2026.

A. De Santo* and S. Y. Lee. *With Subjects, Italian Relative Clauses Attach Low.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

S. Y. Lee and **A. De Santo***. *Nonce-Words Reveal Individual Differences in Korean RC Attachment Ambiguity.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

S. Y. Lee and **A. De Santo**. *Ambiguous After All: Korean RC Attachment With Balanced Plausibility.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

G. Prasad, **A. De Santo**, S. Momma. *The importance of neutral baselines: Cross-structural priming ≠ Shared representation.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

S. Momma, G. Prasad, **A. De Santo**. *Not all nothings are represented alike: Evidence from cross-constructional null complementizer priming in English.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

F. Li, C.J. Jacobs, **A. De Santo**. *Working Memory, Proficiency, and L2 RC Attachment with Chinese-English Bilinguals.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

R. Viets, **A. De Santo**. *Investigating Semantic Automata with Iterated Quantifiers.* Poster at the 39th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2026.

2025 **A. De Santo**. *MG Parsing as a Model of Effort in Online RC Processing.* Talk at the 1st Computational Psycholinguistics Meeting (CPL 2025).

A. Putnam and **A. De Santo**. *The Case of "Transgender": Assessing Novel Slur Formation through Corpus Analysis.* New Ways of Analyz(s)ing Variation 53 (NWAV 53).

M. Kamerath and **A. De Santo**. *Do LLMs Disambiguate Italian Relative Clause Attachment?.* Poster at the Society for Computation in Linguistics (SCiL) 2025.

A. De Santo. *Capturing Online SRC/ORC Effort with Memory Measures from a Minimalist Parser*. Talk at CMCL 2025.

S. Y. Lee and **A. De Santo***. *The Toves of the Borogoves: Investigating RC Attachment Ambiguity with Nonce Words.* Poster at the 38th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2025.

A. De Santo. *Online Effort from a Minimalist Grammar Parser Improves RT Fit in RC Processing.* Poster at the 38th Annual Conference on Human Sentence Processing (aka CUNY). March 26-29, 2025.

2024 J.K. Johnson and **A. De Santo ***. *Online Learning of ITSL Grammars.* Talk at the Society for Computation in Linguistics (SCiL) 2024.

S. Ozaki, **A. De Santo**, T. Linzen, B. Dillon. *CCG parsing effort and surprisal jointly predict RTs but underpredict garden-path effects.* Talk at the Society for Computation in Linguistics (SCiL) 2024.

C. L. Jacobs, **A. De Santo ***, L. Grobol. *Structural and Interpretative Factors in the Processing of Zeugma.* Poster at the 37th Annual Conference on Human Sentence Processing (aka CUNY). May 16-18, 2024

S.Y. Lee and **A. De Santo***. *Evaluating the Limits of a Minimalist Grammar Parser on Korean Double Relative Clauses.* Poster at the 37th Annual Conference on Human Sentence Processing (aka CUNY). May 16-18, 2024

S.Y. Lee and **A. De Santo** *Exploring Variation in English and Italian Relative Clause Attachment: The Role of Coordination.* Poster at the 2024 LSA Annual Meeting.

2023 C. Miller and **A. De Santo**. *Extending Finite-state Models of Reduplication to Tone in Thai.* Talk at the Society for Computation in Linguistics (SCiL 2023). June 15-17, 2023

M. Fiorini, J. Chang, and **A. De Santo**. *An MG Parsing View into the Processing of Subject and Object Relative Clauses in Basque.* Poster at the Society for Computation in Linguistics (SCiL 2023). Held June 15-17, 2023

J. K. Johnson and **A. De Santo**. *Evaluating a Phonotactic Learner for MITSL Languages.* Poster at the Society for Computation in Linguistics (SCiL 2023). To be held June 15-17, 2023

D. Del Valle **A. De Santo**. *Processing French RCs with Postverbal Subjects in a Minimalist Parser.* Poster at the Society for Computation in Linguistics (SCiL 2023). To be held June 15-17, 2023

C. L. Jacobs, **A. De Santo**, L. Grobol. *Online and offline processing in zeugma constructions is insensitive to argument order*. Poster at the 36th Annual Conference on Human Sentence Processing (aka CUNY). March 9-11, 2023

M. Fiorini, J. Chang, **A. De Santo**. *A Minimalist Parsing Analysis of Subject/Object Asymmetries in Basque Relative Clauses*. Poster at the 36th Annual Conference on Human Sentence Processing (aka CUNY). March 9-11, 2023

D. Del Valle and **A. De Santo**. *A Minimalist approach to the processing of postverbal subjects in French relative clauses*. Poster at the 36th Annual Conference on Human Sentence Processing (aka CUNY). March 9-11, 2023

2022 M. H. Vu, **A. De Santo**, and H. Dolatian. *Logical Transductions for the Typology of Ditransitive Prosody.* Talk at SIGMORPHON 19th (2022). Seattle July 14, 2022.

A. De Santo * and S.Y. Lee *Pseudo-relative clause effects on the online processing of Italian relative clause attachment.* Poster at the 35th Annual Conference on Human Sentence Processing, to be held virtually from Thursday, 24th March, 2022 to Saturday, 26th March, 2022 (held online).

S.Y. Lee and **A. De Santo** *Online processing effects of Pseudo Relative Clause Availability in Italian Attachment Ambiguity.* Talk at PLC 46, 2022 (held online).

A. De Santo* and S.Y. Lee.*Evaluating Structural Economy Claims in Relative Clause Attachment.* Talk at the Society for Computation in Linguistics. Held virtually Feb 7-9, 2022.

S.Y. Lee and **A. De Santo** *Connecting Sentence Processing and Syntactic Theories in Prenominal Relative Clause Languages.* Talk at the 96th LSA Annual Meeting, held January 6-9, 2022 in Washington, DC.

A. De Santo* and S.Y. Lee. *Evaluating Theories of Attachment Preference Computationally.* Poster at the 96th LSA Annual Meeting, held January 6-9, 2022 in Washington, DC.

2021 S.Y. Lee and **A. De Santo*** *A Computational View into the Structure of Attachment Ambiguities in Chinese and Korean.* Poster at NELS 52, Rutgers (Held online).

H. Dolatian, **A. De Santo*** and T. Graf. *Recursive Prosody is not Finite State.* Talk at SIGMORPHON 18th (2021). To be held virtually August 5, 2021.

A. De Santo *Feature Reactivation in Minimalist Parsing.* Short Talk at the 34 Annual CUNY Conference on Human Sentence Processing, March 04-07 2021, UPenn (held online).

A. De Santo* and A. Aksënova. *Learning Interactions of Local and Non-Local Phonotactic Constraints from Positive Input.* Talk at the Society for Computation in Linguistics (SCiL) 2021. Held virtually February 15-19, 2021

A. De Santo. *A Minimalist Approach to Facilitatory Effects in Stacked Relative Clauses.* Poster at the Society for Computation in Linguistics (SCiL) 2021. Held virtually February 15-19, 2021

2020 Antonio Galli, Vincenzo Moscato, Giancarlo Sperli, and **A. De Santo**. *An Explainable Artificial Intelligence Methodology for Hard Disk Fault Prediction.* Talk at the 2020 International Conference on Database and Expert Systems Applications (DEXA2020). Held virtually September 14-17, 2020

A. De Santo *A Minimalist Parsing Account of Gradience in Acceptability Judgments.* Poster at the 33rd Annual CUNY Conference on Human Sentence Processing, March 19-21 2020, UMass Amherst (held online).

Andrei Antonenko, Mark Aronoff, Paola Cepeda, **A. De Santo**, and Lori Repetti. *The world turned upside-down: flipping the classroom in a large linguistics lecture course.* Talk at the LSA symposium on *Teaching Large General Linguistics Classes*, Jan. 1-5 2020, New Orleans, Louisiana.

A. De Santo. *MG Parsing as a Model of Gradient Acceptability in Syntactic Islands.* Poster at the Society for Computation in Linguistics (SCiL) 2020, Jan. 1-5 2020, New Orleans, Louisiana.

2019 T. Graf and **A. De Santo***. *Sensing Tree Automata as a Model of Syntactic Dependencies.* Talk at the 16th Meeting on the Mathematics of Language (MOL), July 18-19 2019, Toronto, Canada.

A. De Santo* and T. Graf. *Structure Sensitive Tier Projection: Applications and Formal Properties.* Talk at the 24st Conference on Formal Grammar (FG). August 11th 2019, Riga, Latvia.

A. De Santo. *Testing a Minimalist Grammars Parser on Italian Relative Clause Asymetries.* Talk at the Cognitive Modeling and Computational Linguistics Workshop (CMCL), June 7, 2019, Minneapolis, Minnesota

J. Rawski, **A. De Santo**, T. Graf, and J. Heinz. *Geometric Representations of Linguistic Structures and Computations.* Talk at the 52nd Annual Meeting of the Society for Mathematical Psychology, July 19-22, Montreal, Canada.

A. De Santo. *The Processing of Italian Relative Clauses within a Computational Parsing Model.* Poster at the 49th Linguistic Symposium on Romance Languages (LSRL49), May 1-4 2019, Athens, Georgia.

A. De Santo and Nazila Shafiei. *On the Structure of Relative Clauses in Persian: Evidence from Computational Modeling and Processing Effects.* Talk at the 2nd North American Conference in Iranian Linguistics (NACIL2), April 19-21 2019, University of Arizona.

A. De Santo* and John E. Drury. *Generalized Quantifiers and Working Memory: Disentangling Encoding from Verification.* Poster at the 32nd Annual CUNY Conference on Human Sentence Processing, March 28-31 2019, Boulder, Colorado.

A. De Santo. *Evaluating a Minimalist Grammar Parser on Italian Relative Clause Asymmetries.* Poster at the 32nd Annual CUNY Conference on Human Sentence Processing, March 28-31 2019, Boulder, Colorado.

Nazila Shafiei and **A. De Santo***. *What Processing and Computational Modeling Can Tell Us about Syntax: The Case of Persian Relative Clauses.* Poster at the 32nd Annual CUNY Conference on Human Sentence Processing, March 28-31 2019, Boulder, Colorado.

Andrei Antonenko, Mark Aronoff, Paola Cepeda, **Aniello De Santo***, and Lori Repetti. *Classroom? We don't need no classroom to do linguistics!* Talk at CELT Annual Teaching and Learning Colloquium, March 8 2019, Stony Brook University.

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

Aniello De Santo*, 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.

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, Philadephia, 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

A. De Santo*, A. Aksënova, and T. Graf. *An Alternate View on Strong Lexicalization in TAG.* 12th International Workshop on Tree-Adjoining Grammars and Related Formalisms (TAG+) 2016, June 29 - July 1, 2016, Düsseldorf

T. Graf, A. Aksënova, and **A. De Santo**. *A Single Movement Normal Form for Minimalist Grammars.* (with T. Graf, A. Aksënova). 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.* 3rd International Conference of Information and Communication Technology (ICoICT 2015), May 27-29, 2015, Bali, Indonesia

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.* 9th 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.* 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.* 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.* 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.* SEBD 2015: 184-191

2014 F. Amato, **A. De Santo**, V. Moscato, F. Persia and A. Picariello. *Detecting unexplained human behaviors in Social Networks.* 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.* 22nd Italian Symposium on Advanced Database Systems

Invited Talks

upcoming *TBD*. Department of Linguistics, University of Rochester. March 2027.

upcoming *TBD*. Department of Linguistics, Stony Brook University. April 2027.

2025 *Learnability Insights from (and into) the TSL Neighborhood*. Organized session on "Computational Models of Learnability and Acquisition of Morphology and Phonology' at the 2025 Annual Meeting of the LSA.

2024 *What can Pseudo-relative clauses tell us about principles of parsing?*. Department of Linguistics, Yale University. April, 2024.

Computation as a window into linguistic cognition. Department of Linguistics, University of Michigan, Ann Arbor. February, 2024.

Towards a Computational Linking Hypothesis for Syntactic Theory. Department of Linguistics, University of Pittsburgh. February, 2024.

2023 *Towards a Computational Linking Theory for Minimalism*. Linguistics Program, CUNY Graduate Center. March, 2023.

2022 *Symbolic Parsers as Models of Sentence Processing: A Minimalist Perspective*. Computational Linguistics Certificate Seminar. UNC Chapel Hill. October, 2022.

Mathematical Linguistics and Cognitive Complexity. Language Acquisition and Language Processing Lab, Norwegian University of Science and Technology. May 24, 2022.

The Devil is in the Details (of the Linking Theory). Linguistics Seminar Series, Department of Linguistics, University of Illinois at Urbana-Champaign. April 18, 2022.

Bridging Typology and Learnability via Formal Language Theory. CU Boulder's CompSem Meeting. February 23, 2022.

2021 *Mathematical Linguistics and Typological Complexity*. SIGTYP Lecture Series . November 19th, 2021.

A Pedagogical Necessity: On the Role of Domain Expertise in the Age of Black Box Models. Panel Talk at the University of Utah's AI and Society Symposium. September 19-20, 2021.

Towards a Computational Linking Theory for Minimalism. Department of Linguistics, Michigan State University September, 2021.

Minimalist Parsing as a Psycholinguistic Model. NETS — IUSS Pavia Center For NeuroCognition, Epistemology, and Theoretical Syntax. March, 2021.

Minimalist Parsing as a Psycholinguistic Model. MIT Discussion Group on Language and Computation. March, 2021.

Subregular Complexity as a Cognitive Hypothesis. Seminar series. Dept. of Communication Sciences and Disorders. University of Utah. Novemeber, 2020.

Minimalist Parsing as a Psycholinguistic Model. Yale's Friday Lunch Talk Series, Yale University. October, 2020.

Bridging Minimalist Syntax and Sentence Processing via Transparent Computational Models. Integrated Language Science and Technology Seminar (ILST), University of Pennsylvania. September, 2020.

MG parsing as a window into human sentence processing. Department of Linguistics, UCLA. February, 2020.

Parsing as a window into human sentence processing. Department of Linguistics, San Jose State University. January, 2020.

Of Parsers and Trees: Memory usage as a measure of complexity in human sentence processing. Department of English, Miami University (OH). January, 2020.

Memory usage as a measure of structural complexity in Minimalist parsing. Department of Linguistics, University of Utah. January, 2020.

2019 *Memory usage as a measure of structural complexity in Minimalist parsing.* Computation and Psycholinguistics Lab, Department of Cognitive Science, Johns Hopkins University. October 30, 2019.

2017 *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. (*A. Aksënova*)

2016 *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)

Invited Participation in Workshops

2025 Speaking to Machines: Cross-Disciplinary Dialogues in Linguistics, A.I., and Computer Science. University of Utah. April 23, 2025 Talk: *In Search of the Computational Primitives of Language.*

2024 MG+ 2.3 Workshop. Talk: *Where do we go from here? Memory measures for Minimalist parsers.* Held Virtually. March 25, 2024.

2022 *What Makes a Good Theory? Interdisciplinary Perspectives*, Lorentz Center (Hybrid), Leiden, The Netherlands, 20 - 24 June, 2022.

Grants

- University of Utah's AI and the Humanities Research Initiative. *Interpreting and Advancing AI systems through the Analysis of Linguistic Diversity.* Co-PI: Yang Wang. August 2026 to August 2027.
- COH Microgrant. *Cognitive Resources and Bilingual Sentence Comprehension while Reading.* May 2026 to May 2027.
- National Science Foundation (NSF), BCS - Linguistics. Submitted: January 2026. Title: *Connecting typology and learnability via formal language theory: An AGL investigation of subregular biases.* Not funded.
- Research Incentive Seed Grant, University of Utah. March 2021 to March 2023. Title: *Testing Subregular Constraints on the Learnability of Morphotactics.*

Scholarships and Awards

- University of Utah, College of Humanities 2025 Rising Star in the Humanities Award.

- Stony Brook University 2019/2020 Graduate Fellowship in the Arts, Humanities and Lettered Social Sciences.
- CMCL Student Travel Award. Sponsored by the French National Centre for Scientific Research (CNRS), April 2019.
- CUNY Student Travel Award. 32nd CUNY Human Sentence Processing Conference, University of Colorado Boulder, March 2019.
- Institute for Advanced Computational Science (IACS) Travel Award. Stony Brook University, July 2018.
- 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

Independent Studies

Spring 2022 **Advanced Syntax.** Brennan Wednesdey (UG), U. of Utah

Spring 2021 **Computational Models of Phonological Learning.** Mohammed Al-Ariqy (Grad), U. of Utah

As Instructor (at the University of Utah)

Spring 2026 **Programming for Humanities (HUM 1600)** U. of Utah. UG Course

Spring 2026 **Computational Linguistics 1 (LING 6300)** U. of Utah. Grad Course

Fall 2025 **Language and Culture (LING 2470)** U. of Utah. UG Course

Fall 2025 **Computers & Language (LING 2300)** U. of Utah. UG Course

Fall 2024 **Introduction to Syntax (LING 3020)** U. of Utah. UG Course

Fall 2024 **Computers & Language (LING 2300)** U. of Utah. UG Course

Spring 2024 **Experimental Syntax** U. of Utah. UG/Grad Course

Spring 2024 **Introduction to Computational Linguistics (LING 5300)** U. of Utah. UG Course

Fall 2023 **Intro to the Study of Language (LING 1200)** U. of Utah. UG Course

Fall 2023 **Computers & Language (LING 3300)** U. of Utah. UG Course

Spring 2023 **Introduction to Computational Linguistics (LING 5300)** U. of Utah. UG Course

Fall 2022 **Computers & Language (LING 3300)** U. of Utah. UG Course

Spring 2022 **Introduction to Syntax (LING 4020)** U. of Utah. UG Course

Spring 2022 **Introduction to Computational Linguistics (LING 5300)** U. of Utah. UG Course

Fall 2021 **Syntax 1 (LING 6021)** U. of Utah. Grad Course

Fall 2021 **Computers & Language (LING 3300)** U. of Utah. UG Course

Spring 2021 **Introduction to Computational Linguistics (LING 5300)** U. of Utah. UG Course

Computational Linguistics (LING 6300) U. of Utah. Grad Course

Fall 2020 **Fundamentals of Python (LING 5981/6080)** U. of Utah. UG/Grad Course

As Instructor (at other Institutions)

Spring 2020 **Computational Linguistics (LIN220)** Stony Brook University.

Fall 2019 **Language and Technology (LIN120)** Stony Brook University.

Sum. 2019 **Bilingualism (LIN541/426)** Stony Brook University.

Spring 2019 **Language and Technology (LIN120)** Stony Brook University. co-Instructor (two sections, co-taught with Alëna Aksënova)

Sum. 2018 **Language in the USA (LIN200)** Stony Brook University.

Winter 2017 **Language and Life in Italy (LIN356)** Stony Brook University.

Sum. 2016 **Language and Technology (LIN120)** Stony Brook University.

As a Teaching assistant (TA)

Fall 2017 **Language and Technology (LIN120)** Stony Brook University. Instructor: Thomas Graf

Spring 2017 **Language and Mind (LIN426)** Stony Brook University. Instructor: John E. Drury

Fall 2016 **Language and Technology (LIN120)** Stony Brook University. Instructor: Thomas Graf

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

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

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

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

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

Guest Lectures

05/04/2022 **Computational Psycholinguistics: A Primer.** In *Introduction to Natural Language Processing* (Instructor: Dr. Jon Rawski). San Jose State University, Dept. of Linguistics and Language Development

11/01/2021 **Artificial Grammar Learning and Formal Language Theory.** In *Formal Language Theory in Linguistics* (Instructor: Dr. Mai Ha Vu). University of Oslo, Oslo, Norway

Other

Sum. 2020 **Computational Linguistics.** Course at the 18th annual New York - St. Petersburg Institute of Linguistics, Cognition and Culture (V-NYI). Co-taught with T. Graf, Alena Aksenova, Jeff Heinz. Held Virtually 07/13/2020 - 07/31/2020

Student Mentoring

Graduate Committee Chair

Fall 2026- Futong Li (MA, Expected Spring 2028).

Fall 2025- Stella (Eunsoo) Hong (PhD, Expected Spring 2030).

Fall 2024- John Paulson (PhD, Expected Spring 2030).

2021-2023 Daniel Del Valle (MA, graduated Summer 2023). *Thesis*: The Processing of French Postverbal Subjects in a Minimalist Parser.

Graduate Thesis Committee Member

Fall 2025-pres Olivia Ziemelis (PhD, Expected Spring 2030).

Fall 2025-pres. Michael Kamerath (MA, Expected Spring 2027).

2024-pres. Tiffany Barney (PhD, Writing and Rhetoric, expected Summer 2026).

2022-2025 Leigh Anne Benzaia (PhD, Summer 2025).

2022-2025 Eunjin Lee (PhD, Summer 2025).

2021-2022 Maridon Romney (MA, graduated Spring 2022).

2021-2023 Mary Akbary (MA, graduated Spring 2023).

Honors Theses

Spring 2023 Andrea Esteffany Gutierrez. *A Psychopy implementation of the artificial grammar learning paradigm: Replicating Lai (2015)*

Undergraduate Mentoring

Sum 25-pres. Atticus Parker(Linguistics). *Project: Code-switching Effects on Relative Clause Attachment in Spanish Heritage Speakers.*

Sum 24-2026. Futong Li (Linguistics Post-Bachelor). *Project: Exploring the Interaction of Working Memory Capacity and Task Language on Ambiguous RC Attachment Preferences in Bilingual Populations.*

Sum 24-2026. Randa Viets (Linguistics BA, Post-Bachelor; Undergraduate Research Opportunities Program recipient for Fall 2025). *Project: Experimental approaches to the Encoding and Verification of Generalized Quantifiers.*

Sum 24-Sum 25. Michael Kamerath (Linguistics/Data Science). *Project: Investigating Syntactic Biases in Multilingual Transformers via Pseudorelative Clases.*

Sum 24-Fall 2024 Sara Fong (Linguistics). *Project: Mathematical Approaches to Reduplication, A Review.*

Fall 23-Spring 24 Lex Putnam (Linguistics/History/Gender Studies; Undergraduate Research Opportunities Program recipient for Fall 2023). *Project: An Evaluation of Novel Slur Formation through Textual Media Analysis of "Transgender"*

Fall 22-Spring 24 Britta Anne Bolander (Linguistics/Philosophy of Science; Undergraduate Research Opportunities Program recipient for Spring 2023, Fall 2023). *Project: Bridging the Ethics Divide: Expanding the Scope and Context of AI Ethics* (co-mentored with J. C. Havstad)

Sum. 22-24 Casey Miller (Linguistics/Computer Science; Undergraduate Research Opportunities Program recipient for Fall 2022). *Project: Mathematical Models of Tone in Thai Reduplication Patterns*

Sum. 22-23 Andrea Esteffany Gutierrez (Linguistics; Independent research; UG Honors Thesis). *Project: Testing Mathematical Predictions on Phonotactics with AGL experiments* (Supported by U of U Research incentive Grant to A. De Santo)

Sum. 22-23 Jacob Johnson (Linguistics/Computer Science). *Project: Developing and Testing Grammar Induction Algorithms for Multiple-Input TSL Languages*

Supervised Student Presentations

2025. Randa Viets *Experimental approaches to the Encoding and Verification of Generalized Quantifiers.* Utah Conference on Undergraduate Research 2025.

2024. Lex Putnam *Pre-Study Considerations: An Evaluation of Novel Slur Formation through Textual Media Analysis of "Transgender".* Utah Conference on Undergraduate Research 2024. (Best poster in Humanities).

2023 Britta Anne Bolander. *Problematizing Machine Learning's Cognitive Metaphor: Implications and Alternatives.* The 11th Values in Medicine, Science, and Technology Conference, The University of Texas at Dallas May 23-25, 2023.

2023 Casey Miller. *Mathematical Models of Tone in Thai Reduplication Patterns.* Utah Conference on Undergraduate Research 2023.

2023 Jacob Johnson *Tool-Assisted Induction of MITSL Languages.* Utah Conference on Undergraduate Research 2023.

Other

Spring/Sum. 2022 PhD Dissertation Reader, Heming S. Bremnes, NTNU (Norway). *Quantifiers and Complexity: The distinct neural signatures of verification algorithms for natural language quantifiers.*

Service

2024-present co-Guest editor, Languages, Special Issue on New Trends in Syntactic Islands (with Thomas Graf)

2024-2025 Panelist, National Science Foundation, Division of Behavioral and Cognitive Sciences

Ad Hoc Reviewing	Computational Psycholinguistics Meeting (2025); HSP/CUNY (2022 - 2024); SIGMORPHON (2022 - 2025); CMCL (2019-2026); SCiL (2020-2026); Glossa Psycholinguistics (2023- 2025); Glossa (2021); Applied Psycholinguistics (2022); Queer in AI @ NAACL (2022); EMNLP (2021, 2022); Nordic Journal of Linguistics (2021, 2022); CoNLL (2020-2022); Language, Cognition and Neuroscience (2021); SACNAS National Diversity in STEM (NDiSTEM) Digital Conference (2021); EACL (2021); COLING (2020); Biolinguistics (2017, 2018); SYNC (2016-2018)
To U. of Utah	Linguistics Executive Committee (2021-present); Computational Linguistics Certificate Coordinator (2020-present); Linguistics Undergraduate Committee (Fall 2020-present); NACLO Outreach and Planning (2020-present); Ad-hoc RPT Committee for Dr. Seung Kyung Kim (2024); Humanities Scholar Mentor (2023-2025); Computational Linguistic Search Committee (Fall 2023-Spring 2024); Computational Linguistic Search Committee (Fall 2022-Spring 2023); College of Humanities' Faculty Awards Committee (Fall 2023); Linguistics Department Library Liaison (2022-2024); College of Humanities' Diversity Equity and Inclusion Task Force (2021-2024); Linguistics Colloquium Committee (2020-2021); Linguistics EDI Curriculum Committee (2020-2021); Linguistics EDI Outreach Committee (2020-2021); Ad hoc Linguistics Learning Outcomes Committee (2021)