

# Aniello De Santo

## Curriculum vitae et studiorum

Department of Linguistics  
University Of Utah  
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🌐 [aniellodesanto.github.io](https://aniellodesanto.github.io)  
🌐 MeLo Lab

### Academic Affiliation

July 2020 - **Assistant Professor** Department of Linguistics, University of Utah.  
Present 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 G. Baggio, **A. De Santo**, N. A. Nunez. *Minimal plausibility, community and early theory in Cognitive Science*. (Accepted, Jan 2024. Email for a copy)

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.

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## 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).

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## Peer-Reviewed Proceedings Articles

- 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 24th Conference on Formal Grammar (FG) 2019.
- A. De Santo**. *Testing a Minimalist Grammars Parser on Italian Relative Clause Asymmetries*. Proceedings of 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. Sperli. *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. Sperli. *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 Articles

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

## Manuscripts

- Under Review D. Levenstein, J. Rawski, **A. De Santo**, S. Heijnen, F. Oude Maatman, M. Narayan, C. Wright. *How do theoretical virtues depend on their problem-space?*. (R&R, Sept 2023. Email for a draft)
- Under Review **A. De Santo** and S. Y. Lee. *Online Evidence for Pseudo-Relatives' Effects on Italian RC Attachment Resolution*. (R&R, Dec. 2020. Email for a draft)
- In prep. **A. De Santo** and T. Graf. *The Derivational Theory of Complexity, Revisited*.

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## Talks and Posters

(for co-authored talks: \* personally presented)

- 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 24th Conference on Formal Grammar (FG). August 11th 2019, Riga, Latvia.
- A. De Santo**. *Testing a Minimalist Grammars Parser on Italian Relative Clause Asymmetries*. 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, 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
- 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



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## Invited Talks

- 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. November, 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

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

## Grants

- (Pending). National Science Foundation (NSF), BCS - Linguistics. Submitted July 2023. Title: *Connecting typology and learnability via formal language theory: An AGL investigation of subregular biases in morpho-phonotactics*.
- Research Incentive Seed Grant, University of Utah. March 2021 to March 2023. Title: *Testing Subregular Constraints on the Learnability of Morphotactics*.

## Scholarships and Awards

- 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.
- Department of Linguistics Travel Award. Stony Brook University, December 2018.
- 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

### 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 an Instructor

- 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  
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

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### Student Mentoring

#### Graduate Thesis Committee Chair

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

#### Graduate Thesis Committee Member

- 2021-2022 Maridon Romney (MA, graduated Spring 2022).
- 2021-2023. Mary Akbary (MA, graduated Spring 2023).
- 2022-pres. Leigh Anne Benzaia (PhD, expected Spring 2026).
- 2022-pres. Eunjin Lee (PhD, expected Spring 2026).
- 2022-pres. Yan Shi (PhD, expected Spring 2026).

#### Honors Theses

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

### Undergraduate Mentoring

- Fall 23-pres. 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-pres. 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-pres Casey Miller (Linguistics/Computer Science; Undergraduate Research Opportunities Program recipient for Fall 2022). *Project: Mathematical Models of Tone in Thai Reduplication Patterns*
- Sum. 22-Sum. 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-Sum. 23 Jacob Johnson (Linguistics/Computer Science). *Project: Developing and Testing Grammar Induction Algorithms for Multiple-Input TSL Languages*

### Supervised Student Presentations

- 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*.

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### Other Positions

- 01/2018–01/2019 **Graduate Assistant**. Stony Brook University. PIs: Andrei Antonenko, Mark Aronoff, Lori Repetti  
S-BOLD (Stony Brook Online Learning Development) Project: convert SBU linguistics' largest general education course (LIN 200 – Language in the USA) to an online format.
- 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.
- 09/2013–02/2014 **Research Internship** LABADAM, Università degli Studi *Federico II* di Napoli  
Supervisor: Prof. Antonio Picariello. Main Advisor: Prof. Virginio Cantoni  
I developed statistical models 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.

## 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

- Reviewing HSP/CUNY (2022, 2023); Applied Psycholinguistics (2022); Queer in AI @ NAACL (2022); SIGMORPHON (2022, 2023); EMNLP (2021, 2022); Nordic Journal of Linguistics (2021, 2022); CoNLL (2020-2022); CMCL (2019-2022); SCiL (2020-2023); Glossa (2021); 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 Humanities Scholar Mentor (2023-2024); Linguistics Executive Committee (2021-present); Linguistics Undergraduate Student Committee (Fall 2020-present); Linguistics Department Library Liaison (2022-present); Computational Linguistics Certificate Coordinator (2020-present); College of Humanities' Diversity Equity and Inclusion Task Force (2021-present); NACLO Outreach and Planning (2020-present); Computational Linguistic Search Committee (Fall 2022-Spring 2023); Linguistics Colloquium Committee (2020-2021); Linguistics EDI Curriculum Committee (2020-2021); Linguistics EDI Outreach Committee (2020-2021); Ad hoc Linguistics Learning Outcomes Committee (2021)