

Eduardo Blanco | Curriculum Vitae

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Education

The University of Texas at Dallas <i>Ph.D., Computer Science</i>	Richardson, TX May 2011
Polytechnic University of Catalonia (Universitat Politècnica de Catalunya) <i>B.S., Computer Science</i>	Barcelona, Spain November 2007

Employment History

University of Arizona <i>Associate Professor</i>	Tucson, AZ August 2022–present
Arizona State University <i>Associate Professor</i>	Tempe, AZ August 2021–August 2022
University of North Texas <i>Associate Professor</i>	Denton, TX May 2020–August 2021
University of North Texas <i>Assistant Professor</i>	Denton, TX August 2014–May 2020
Southern Methodist University <i>Adjunct Professor</i>	Dallas, TX August 2012–May 2014
Lymba Corporation <i>Research Scientist</i>	Richardson, TX June 2011–August 2014

Awards

External.....

- National Science Foundation CAREER Award, 2019
- Bloomberg Data Science Research Grant, 2019

Internal.....

- University of North Texas College of Engineering Distinguished Faculty Fellow, 2020–2021

Funding

Grants.....

Office of Naval Research <i>Generative Narrative Networks for Strategic Analysis and Forecasting Conflict</i> PI: Steven Corman (Arizona State University), co-PI: Eduardo Blanco (subcontract, 100%)	\$199,285 July 2022–June 2025
National Science Foundation <i>CAREER: Understanding Negation in Positive Terms</i> PI: Eduardo Blanco (100%), includes \$16,000 from two REU supplements	\$515,950 February 2019–February 2024
National Geospatial-Intelligence Agency <i>Mining Spatiotemporal Knowledge from Language and Images</i> PI: Eduardo Blanco (100%)	\$388,214 April 2020–March 2022

Patient-Centered Outcomes Research Institute		\$976,548
<i>NLP for Medication Adherence: Complex Semantics and Negation</i>	March 2019–February 2022	
From UTHealth (75%, \$732,987): Kirk E. Roberts (PI), Jane E. Hamilton (co-I) and Elmer V. Bernstam (co-I)		
From UNT/ASU (25%, \$243,561): Eduardo Blanco (co-I, subaward)		
National Science Foundation		\$499,581
<i>Building Cybersecurity Analytics Capacity in Big Data Era: Developing Hands-on Labs for Integrating Data Science into Cybersecurity Curriculum</i>	August 2018–July 2021	
PI: Hassan Takabi (70%, \$349,706.7), co-PI: Eduardo Blanco (30%, \$149,874.3)		
National Science Foundation		\$68,000
<i>EAGER: Towards Inter-Sentential Models for Detecting Focus of Negation</i>	April 2017–March 2019	
PI: Eduardo Blanco (100%), includes \$8,000 from an REU supplement		
National Science Foundation		\$6,000
<i>Extra-Propositional Aspects of Meaning in Computational Linguistics Workshop</i>	April 2015–September 2018	
PI: Eduardo Blanco (100%)		
Industry (Unrestricted Gifts and Contracts)		
Lease Analytics, LLC		\$50,000
<i>Information Extraction for the Oil and Gas Domain (unrestricted gift, ctd.)</i>	December 2019	
Sole Investigator		
Bloomberg L.P.		\$62,000
<i>Bloomberg Data Science Research Grant (unrestricted gift)</i>	May 2019	
Sole Investigator		
Harvest Exchange Corp.		\$41,429
<i>Short Text Classification in the Financial Domain (research contract)</i>	August 2018–May 2019	
Sole Investigator		
Snap Inc. Research		\$8,000
<i>Extracting Spatial Timelines from Social Media (unrestricted gift, ctd.)</i>	March 2019	
Sole Investigator		
Snap Inc. Research		\$8,000
<i>Extracting Spatial Timelines from Social Media (unrestricted gift)</i>	July 2018	
Sole Investigator		
Lease Analytics, LLC		\$50,000
<i>Information Extraction for the Oil and Gas Domain (unrestricted gift)</i>	September 2017	
Sole Investigator		
Industry (Cloud Credits and Hardware Gifts)		
Microsoft, Accelerating Foundation Models Research	September 2023	\$20,000
Google Cloud Platform Research Credits	December 2021	\$5,000
Google Cloud Platform Education Grant	June 2020	\$4,250
Google Cloud Platform Education Grant	March 2020	\$4,250
Amazon Web Services (AWS) Cloud Credits for Research	September 2019	\$8,000
Google Cloud Platform Education Grant	September 2019	\$2,700
Google Cloud Platform Research Credits	June 2018	\$5,000
Google Cloud Platform Education Grant	June 2018	\$4,150
NVIDIA GPU Grant (Titan Xp GPU donation)	June 2018	\$1,200

Publications

(* indicates student co-author)

Journal Articles and Book Chapters.....

1. Andrew Vargas Palacios, Pujan Acharya, Anthony Stephen Peidl, Moriah Rene Beck, Eduardo Blanco, Avdesh Mishra, Tasneem Bawa-Khalfe, and Subash Chandra Pakhrin. 2024. SumoPred-PLM: human SUMOylation and SUMO2/3 sites Prediction using Pre-trained Protein Language Model. *NAR Genomics and Bioinformatics*, 6(1):lqae011.
2. Jane E Hamilton, Eduardo Blanco, Salih Seleke, Kelly L Wirfel, Elmer V Bernstam, Dawn Velligan, Meghana Gudala,* and Kirk Roberts. 2022. Patient and Provider Perspectives on Medication Non-adherence Among Patients with Depression and/or Diabetes in Diverse Community Settings—A Qualitative Analysis. *Patient Preference and Adherence*, 16:1581–1594. Dove Press.
3. Dhivya Chinnappa* and Eduardo Blanco. 2021. Extracting Possessions from Text: Experiments and Error Analysis. *Natural Language Engineering*, pp. 1–22. Cambridge University Press.
4. Roser Morante and Eduardo Blanco. 2021. Recent Advances in Processing Negation. *Natural Language Engineering* 27(2), pp. 121–130. Cambridge University Press.
5. Eduardo Blanco and Roser Morante. 2021. Processing negation: An introduction to the special issue. *Natural Language Engineering* 27(2), pp. 119–120. Cambridge University Press.
6. Paul Tarau and Eduardo Blanco. 2021. Interactive Text Graph Mining with a Prolog-based Dialog Engine. *Theory and Practice of Logic Programming* 21(2), pp. 244 - 263. Cambridge University Press.
7. Kaushik Madala,* Shraddha Piparia,* Eduardo Blanco, Hyunsook Do and Renee Bryce. 2021. Model elements identification using neural networks: a comprehensive study. *Requirements Engineering* 26, pp. 67–96. Springer.
8. Alakananda Vempala* and Eduardo Blanco. 2020. Extracting Biographical Spatial Timelines: Corpus and Experiments. *IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP)* 28: 1395–1403.
9. Alakananda Vempala* and Eduardo Blanco. 2020. Temporally-Anchored Spatial Knowledge: Corpora and Experiments. *Natural Language Engineering*. 27(5), pp. 519–543. Cambridge University Press.
10. Manar Alohal,* Hassan Takabi and Eduardo Blanco. 2019. Automated extraction of attributes from natural language attribute-based access control (ABAC) Policies. *Cybersecurity* 2(1):1–25. Springer.
11. Eduardo Blanco and Dan Moldovan. 2015. A Semantic Logic-Based Approach to Determine Textual Similarity. *IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP)* 23(4): 683–693.
12. Eduardo Blanco and Dan Moldovan. 2014. Retrieving positive implicit meaning from negated statements. *Natural Language Engineering* 20(4): 501–535. Cambridge University Press.
13. Eduardo Blanco and Dan Moldovan. 2013. Composition of Semantic Relations: Theoretical Framework and Case Study. *ACM Transactions in Speech and Language Processing (TSLP)* 10(4) 17:1–17:36.
14. Hakki C. Cankaya, Eduardo Blanco and Dan Moldovan. 2012. Semantic composition of AT-LOCATION relation with other relations. *Natural Language Engineering* 18(3):343–374. Cambridge University Press.
15. Eduardo Blanco and Dan Moldovan. 2012. Some Issues on Capturing the Meaning of Negated Statements. In C. Boonthum-Denecke, P. McCarthy and T. Lamkin (Eds.), *Cross-Disciplinary Advances in Applied Natural Language Processing: Issues and Approaches*, pp. 103–113.
16. Eduardo Blanco, Hakki C. Cankaya and Dan Moldovan. 2012. Extracting Commonsense Knowledge Using Concepts Properties. In C. Boonthum-Denecke, P. McCarthy and T. Lamkin (Eds.), *Cross-Disciplinary Advances in Applied Natural Language Processing: Issues and Approaches*, pp. 341–353.

Peer-Reviewed Conference Papers.....

1. Abdullah Albanyan, Ahmed Hassan, and Eduardo Blanco. 2023. Finding Authentic Counterhate Arguments: A Case Study with Public Figures. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pp. 13862–13876. Singapore.
2. Xinchun Yu, Ashley Zhao, Eduardo Blanco, and Lingzi Hong. 2023. A Fine-Grained Taxonomy of Replies to Hate Speech. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pp. 7275–7289. Singapore.

3. Zijie Wang, Md Hossain, Shivam Mathur, Terry Melo, Kadir Ozler, Keun Park, Jacob Quintero, Mohammad Hossein Rezaei, Shreya Shakya, Md Uddin, and Eduardo Blanco. 2023. Interpreting Indirect Answers to Yes-No Questions in Multiple Languages. In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pp. 2210–2227. Singapore.
4. Portia Cooper, Mihai Surdeanu, and Eduardo Blanco. 2023. Hiding in Plain Sight: Tweets with Hate Speech Masked by Homoglyphs. In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pp. 2922–2929. Singapore.
5. Shivam Mathur, Keun Park, Dhivya Chinnappa, Saketh Kotamraju, and Eduardo Blanco. 2023. Interpreting Answers to Yes-No Questions in User-Generated Content. In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pp. 14137–14161. Singapore.
6. Javad Asl, Eduardo Blanco, and Daniel Takabi. 2023. RobustEmbed: Robust Sentence Embeddings Using Self-Supervised Contrastive Pre-Training. In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pp. 4587–4603. Singapore.
7. Zhaomin Xiao, Yan Huang, and Eduardo Blanco. 2023. Context Helps Determine Spatial Knowledge from Tweets. In *Findings of the Association for Computational Linguistics: IJCNLP-AACL 2023*, pp. 149–160. Nusa Dua, Bali.
8. Abdullah Albanyan, Ahmed Hassan, and Eduardo Blanco. 2023. Not All Counterhate Tweets Elicit the Same Replies: A Fine-Grained Analysis. In *Proceedings of the 12th Joint Conference on Lexical and Computational Semantics (*SEM 2023)*, pp. 71–88. Toronto, Canada.
9. Sushma Anand Akoju, Robert Vacareanu, Eduardo Blanco, Haris Riaz, and Mihai Surdeanu. 2023. Synthetic Dataset for Evaluating Complex Compositional Knowledge for Natural Language Inference. In *Proceedings of the 1st Workshop on Natural Language Reasoning and Structured Explanations (NLRSE)*, pp. 157–168. Toronto, Canada.
10. Md Mosharaf Hossain* and Eduardo Blanco. 2022. Leveraging Affirmative Interpretations from Negation Improves Natural Language Understanding. In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*, pp. 5833–5847. Abu Dhabi, United Arab Emirates.
11. Zhaomin Xiao* and Eduardo Blanco. 2022. Are People Located in the Places They Mention in Their Tweets? A Multimodal Approach. In *Proceeding of the 29th International Conference on Computational Linguistics (COLING 2022)*, pp. 2561–2571. Gyeongju, Republic of Korea.
12. Xinchun Yu,* Eduardo Blanco, and Lingzi Hong. 2022. Hate Speech and Counter Speech Detection: Conversational Context Does Matter. In *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, pp. 5918–5930. Seattle, WA, USA.
13. Md Mosharaf Hossain,* Luke Holman,* Anusha Kakileti,* Tiffany Kao,* Nathan Brito,* Aaron Mathews,* and Eduardo Blanco. 2022. A Question-Answer Driven Approach to Reveal Affirmative Interpretations from Verbal Negations. In *Findings of the Association for Computational Linguistics: NAACL 2022 (Findings of NAACL)*, pp. 490–503. Seattle, WA, USA.
14. Krishna Sanagavarapu,* Jathin Singaraju,* Anusha Kakileti,* Anirudh Kaza,* Aaron Mathews,* Helen Li,* Nathan Brito,* and Eduardo Blanco. 2022. Disentangling Indirect Answers to Yes-No Questions in Real Conversations. In *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, pp. 4677–4695. Seattle, WA, USA.
15. Md Mosharaf Hossain,* Dhivya Chinnappa, and Eduardo Blanco. 2022. An Analysis of Negation in Natural Language Understanding Corpora. In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL), Short Papers*, pp. 716–723. Dublin, Ireland.
16. Abdullah Albanyan* and Eduardo Blanco. 2022. Pinpointing Fine-Grained Relationships between Hateful Tweets and Replies. In *Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 10418–10426. Online.
17. Saketh Kotamraju* and Eduardo Blanco. 2021. Written Justifications are Key to Aggregate Crowdsourced Forecasts. In *Findings of the 2020 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP)*, pp. 4206–4216. Punta Cana, Dominican Republic.

18. Jordan Sanders,* Meghana Gudala,* Kathleen Hamilton,* Nishtha Prasad,* Jordan Stowall,* Eduardo Blanco, Jane E. Hamilton, and Kirk Roberts. 2020. Extracting Adherence Information from Electronic Health Records. In *Proceedings of the 28th International Conference on Computational Linguistics (COLING)*, pp. 680–695. Online.
19. Md Mosharaf Hossain,* Venelin Kovatchev,* Pranoy Dutta,* Tiffany Kao,* Elizabeth Wei* and Eduardo Blanco. 2020. An Analysis of Natural Language Inference Benchmarks through the Lens of Negation. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 9106–9118. Online.
20. Md Mosharaf Hossain,* Antonios Anastasopoulos, Eduardo Blanco and Alexis Palmer. 2020. It’s not a Non-Issue: Negation as a Source of Error in Machine Translation. In *Findings of the 2020 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP)*, pp. 3869–3885. Online.
21. Srikala Murugan,* Dhivya Chinnappa* and Eduardo Blanco. 2020. Determining Event Outcomes: The Case of #fail. In *Findings of the 2020 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP)*, pp. 4021–4033. Online.
22. Farzana Rashid,* Tommaso Fornaciari, Dirk Hovy, Eduardo Blanco and Fernando Vega-Redondo. 2020. Helpful or Hierarchical? Predicting the Communicative Strategies of Chat Participants, and their Impact on Success. In *Findings of the 2020 Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP)*, pp. 2366–2371. Online.
23. Md Mosharaf Hossain,* Kathleen Hamilton,* Alexis Palmer and Eduardo Blanco. 2020. Predicting the Focus of Negation: Model and Error Analysis. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 8389–8401. Online.
24. Dhivya Chinnappa,* Srikala Murugan* and Eduardo Blanco. 2020. Beyond Possession Existence: Duration and Co-possession. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 8332–8341. Online.
25. Salud María Jiménez-Zafra,* Roser Morante, Eduardo Blanco, María Teresa Martín Valdivia and L. Alfonso Ureña López. 2020. Detecting Negation Cues and Scopes in Spanish. In *Proceedings of the 12th International Conference on Language Resources and Evaluation (LREC)*, pp. 6902–6911. Online.
26. Dhivya Chinnappa,* Alexis Palmer and Eduardo Blanco. 2020. WikiPossessions: Possession timeline generation as an evaluation benchmark for machine reading comprehension of long texts. In *Proceedings of the 12th International Conference on Language Resources and Evaluation (LREC)*, pp. 1110–1117. Online.
27. Paul Tarau and Eduardo Blanco. 2020. Interactive Text Graph Mining with a Prolog-based Dialog Engine. In *Proceedings of the 22nd International Symposium on Practical Aspects of Declarative Languages (PADL)*, pp 3–19. New Orleans, LA, USA.
28. Dhivya Chinnappa,* Srikala Murugan* and Eduardo Blanco. 2019. Extracting Possessions from Social Media: Images Complement Language. In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 663–672. Hong Kong, China.
29. Abhishek Singh,* Eduardo Blanco and Wei Jin. 2019. Incorporating Emoji Descriptions Improves Tweet Classification. In *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), Short Papers*, pp. 2096–2101. Minneapolis, MN, USA.
30. Zahra Sarabi,* Erin Killian,* Eduardo Blanco and Alexis Palmer. 2019. A Corpus of Negations and their Underlying Positive Interpretations. In *Proceedings of the Eighth Joint Conference on Lexical and Computational Semantics (*SEM)*, pp, 158–167. Minneapolis, MN, USA.
31. Zahra Sarabi* and Eduardo Blanco. 2019. Identifying the Focus of Negation Using Discourse Structure. In *Proceedings of the 32nd Florida Artificial Intelligence Research Society Conference (FLAIRS), Short Papers*, pp. 448–451. Sarasota, FL, USA.
32. Farzana Rashid* and Eduardo Blanco. 2018. Characterizing Interactions and Relationships between People. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 4395–4404. Brussels, Belgium.
33. Dhivya Chinnappa* and Eduardo Blanco. 2018. Possessors Change Over Time: A Case Study with Artworks. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*

- (EMNLP), pp. 2278–2287. Brussels, Belgium.
34. Dhivya Chinnappa* and Eduardo Blanco. 2018. Mining Possessions: Existence, Type and Temporal Anchors. In *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, pp 496–505. New Orleans, LA, USA.
 35. Alakananda Vempala,* Eduardo Blanco and Alexis Palmer. 2018. Determining Event Durations: Models and Error Analysis. In *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), Short Papers*, pp 164–168. New Orleans, LA, USA.
 36. Alakananda Vempala* and Eduardo Blanco. 2018. Annotating Temporally-Anchored Spatial Knowledge by Leveraging Syntactic Dependencies. In *Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC)*, pp. 349–354. Miyazaki, Japan.
 37. Vivek Reddy Doudagiri,* Alakananda Vempala* and Eduardo Blanco. 2018. Annotating If the Authors of a Tweet are Located at the Locations They Tweet About. In *Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC)*, pp. 1776–1780. Miyazaki, Japan.
 38. Manar Alohalay,* Hassan Takabi and Eduardo Blanco. 2018. A Deep Learning Approach for Extracting Attributes of ABAC Policies. In *Proceedings of the 23rd ACM Symposium on Access Control Models and Technologies (SACMAT)*, pp 137–148. Indianapolis, USA.
 39. Farzana Rashid* and Eduardo Blanco. 2017. Dimensions of Interpersonal Relationships: Corpus and Experiments. In *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 2297–2306. Copenhagen, Denmark.
 40. Krishna Sanagavarapu,* Alakananda Vempala* and Eduardo Blanco. 2017. Determining Whether and When People Participate in the Events They Tweet About. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL), Short Papers*, pp. 641–646. Vancouver, Canada.
 41. Zahra Sarabi* and Eduardo Blanco. 2017. If No Media Were Allowed inside the Venue, Was Anybody Allowed? In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pp 860–869. Valencia, Spain.
 42. Jordan Sanders* and Eduardo Blanco. 2016. Automatic Extraction of Implicit Interpretations from Modal Constructions. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 1098–1107. Austin, TX, USA.
 43. Zahra Sarabi* and Eduardo Blanco. 2016. Understanding Negation in Positive Terms Using Syntactic Dependencies. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 1108–1118. Austin, TX, USA.
 44. Alakananda Vempala* and Eduardo Blanco. 2016. Beyond Plain Spatial Knowledge: Determining Where Entities Are and Are Not Located, and For How Long. In *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 1502–1512. Berlin, Germany.
 45. Eduardo Blanco and Zahra Sarabi.* 2016. Automatic Generation and Scoring of Positive Interpretations from Negated Statements. In *Proceeding of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, pp. 1431–1441. San Diego, CA, USA.
 46. Alakananda Vempala* and Eduardo Blanco. 2016. Complementing Semantic Roles with Temporally-Anchored Spatial Knowledge: Crowdsourced Annotations and Experiments. In *Proceedings of the 30th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 2652–2658. Phoenix, AZ, USA.
 47. Alakananda Vempala* and Eduardo Blanco. 2016. Annotating Temporally-Anchored Spatial Knowledge on Top of OntoNotes Semantic Roles. In *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC)*, pp. 3814–3821. Portorož, Slovenia.
 48. H. Andrew Schwartz, Maarten Sap, Margaret L. Kern, Johannes C. Eichstaedt, Adam Kapelner, Megha Agrawal, Eduardo Blanco, Lukasz Dziurzynski, Gregory Park, David Stillwell, Michal Kosinski, Martin E.P. Seligman, Lyle H. Ungar. 2016. Predicting Individual Well-Being Through the Language of Social Media. In *Proceedings of the Pacific Symposium on Biocomputing (PSB)*, 21:516-527. Hawaii, HI, USA.
 49. Eduardo Blanco and Alakananda Vempala.* 2015. Inferring Temporally-Anchored Spatial Knowledge from Semantic Roles. In *Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, pp. 452–461. Denver, CO, USA.

50. Eduardo Blanco and Dan Moldovan. Leveraging Verb-Argument Structures to infer Semantic Relations. 2014. In *Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pp. 145–154. Gothenburg, Sweden.
51. Eduardo Blanco and Dan Moldovan. A Semantically Enhanced Approach to Predicting Textual Similarity. 2013. In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 1235–1245. Seattle, WA, USA.
52. H. Andrew Schwartz, Johannes Eichstaedt, Eduardo Blanco, Lukasz Dziurzynski, Margaret L. Kern, Stephanie Ramones and Lyle Ungar. 2013. Choosing the Right Words: Characterizing and Reducing Error of the Word Count Approach. In *Proceedings of the Second Joint Conference on Lexical and Computational Semantics (*SEM)*, pp. 296–305. Atlanta, GA, USA.
53. Eduardo Blanco and Dan Moldovan. 2013. A Logic Prover Approach to Predicting Textual Similarity. In *Proceedings of the 26th Florida Artificial Intelligence Research Society Conference (FLAIRS), Short paper*, pp. 255–258. St. Pete Beach, FL, USA.
54. H. Andrew Schwartz, Johannes Eichstaedt, Lukasz Dziurzynski, Margaret Kern, Eduardo Blanco, Michal Kosinski, David Stillwell, Martin Seligman, Lyle H. Ungar. 2013. Toward Personality Insights from Language Exploration in Social Media. In *Proceedings of AAAI Spring Symposium: Analyzing Microtext*, pp. 72–79. Stanford, CA, USA.
55. Eduardo Blanco and Dan Moldovan. 2012. Fine-Grained Focus for Pinpointing Positive Implicit Meaning from Negated Statements. In *Proceedings of the 2012 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, pp. 456–465. Montreal, Canada.
56. Roser Morante and Eduardo Blanco. 2012. *SEM 2012 Shared Task: Resolving the Scope and Focus of Negation. In *Proceedings of the First Joint Conference on Lexical and Computational Semantics (*SEM)*, pp. 265–274. Montreal, Canada.
57. Dan Moldovan and Eduardo Blanco. 2012. Polaris: Lymba’s Semantic Parser. In *Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC)*, pp. 66–72. Istanbul, Turkey.
58. Eduardo Blanco and Dan Moldovan. 2012. Finding Associations between People. In *Proceedings of the 25th Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pp. 196–201. Marco Island, FL, USA.
59. Eduardo Blanco and Dan Moldovan. 2011. Unsupervised Learning of Semantic Relation Composition. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 1456–1465. Portland, OR, USA.
60. Eduardo Blanco and Dan Moldovan. 2011. Semantic Representation of Negation Using Focus Detection. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics (ACL)*, pp. 581–589. Portland, OR, USA.
61. Eduardo Blanco and Dan Moldovan. 2011. A Model for Composing Semantic Relations. In *Proceedings of the 9th International Conference on Computational Semantics (IWCS)*, pp. 45–54. Oxford, UK.
62. Eduardo Blanco and Dan Moldovan. 2011. Some Issues on Detecting Negation from Text. In *Proceedings of the 24th Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pp. 228–233. Palm Beach, FL, USA.
63. Eduardo Blanco, Hakki C. Cankaya and Dan Moldovan. 2011. Commonsense Knowledge Extraction Using Concepts Properties. In *Proceedings of the 24th Florida Artificial Intelligence Research Society Conference (FLAIRS)*, pp. 222–227. Palm Beach, FL, USA.
64. Eduardo Blanco and Dan Moldovan. 2010. Automatic Discovery of Manner Relations and its Applications. In *Proceedings of the 2010 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 315–324. Cambridge, MA, USA.
65. Eduardo Blanco, Hakki C. Cankaya and Dan Moldovan. 2010. Composition of Semantic Relations: Model and Applications. In *Proceedings of the 23rd International Conference on Computational Linguistics (COLING), Poster Volume*, pp. 72–80. Beijing, China.
66. Eduardo Blanco, Nuria Castell and Dan Moldovan. 2008. Causal Relation Extraction. In *Proceedings of the Sixth International Conference on Language Resources and Evaluation (LREC)*, pp. 310–313. Marrakesh,

Morocco.

Peer-Reviewed Extended Abstracts (non-archival).....

1. Dhivya Chinnappa,* Alexis Palmer and Eduardo Blanco. 2019. Temporally-oriented possession: A corpus for tracking possession over time. In *Proceedings of the Society for Computation in Linguistics: Vol. 2, Article 32*, pp. 302–305. New York City, NY, USA.

Invited Publications.....

1. Eduardo Blanco. 2017. Making Computers Understand Human Language (Invited poster). In the *Computing Community Consortium (CCC) Symposium on Computing Research Addressing National Priorities and Societal Needs*. Washington, DC.

Teaching

At University of Arizona.....

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| Spring 2024 | CSC696H Advanced Topics in Artificial Intelligence |
| Fall 2023 | CSC585 Algorithms for Natural Language Processing |
| Fall 2022 | CSC696H Advanced Topics in Artificial Intelligence |

At Arizona State University.....

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|-------------|---|
| Spring 2022 | CSE 476 Introduction to Natural Language Processing |
| Fall 2021 | CSE 598 Introduction to Deep Learning |

At University of North Texas.....

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|-------------|--|
| Spring 2021 | CSCE 5218 Deep Learning |
| Fall 2020 | CSCE 5290/4290 Natural Language Processing |
| Spring 2020 | CSCE 5380/4380 Data Mining |
| Fall 2019 | CSCE 5290/4290 Natural Language Processing |
| Spring 2019 | CSCE 5380/4380 Data Mining |
| Fall 2018 | CSCE 5290/4290 Natural Language Processing |
| Spring 2018 | CSCE 6933 Advanced Topics in CSCE |
| Fall 2017 | CSCE 5290/4920 Natural Language Processing |
| Spring 2017 | CSCE 3110 Data Structures and Algorithms |
| Fall 2016 | CSCE 5290/4920 Natural Language Processing |
| Fall 2015 | CSCE 4110 Algorithms |
| Fall 2015 | CSCE 5290/4920 Natural Language Processing |
| Spring 2015 | CSCE 4110 Algorithms |
| Fall 2014 | CSCE 5290/4920 Natural Language Processing |

At Southern Methodist University.....

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|-------------|---|
| Spring 2014 | CSE 5/7320 Artificial Intelligence |
| Spring 2014 | CSE 5/7337 Information Retrieval and Web Search |
| Fall 2013 | CSE 3353 Fundamentals of Algorithms |
| Spring 2013 | CSE 5/7320 Artificial Intelligence |
| Spring 2013 | CSE 5/7337 Information Retrieval and Web Search |
| Fall 2012 | CSE 3353 Fundamentals of Algorithms |

Advising and Mentoring

PhD students:

1. Alakananda Vempala, May 2019
2. Zahra Sarabi, May 2019
3. Dhivya Chinnappa, December 2019
4. Farzana Rashid, May 2020
 - Recipient of the Graduate Research Experiences Abroad Travel (GREAT) Grant, awarded by UNT International in Spring 2019
5. Md Mosharaf Hossain, May 2022
6. Abdullah Albanyan, May 2023

Master's students (graduated with a Master's Thesis):

1. Shivam Mathur, Spring 2023
2. Krishna Chaitanya Sanagavarapu, Spring 2016
3. Vivek Reddy Doudagiri, Fall 2017
 - Outstanding Master's Student in Computer Science at UNT, 2017
4. Srikala Murugan, Spring 2020

Undergraduate students (selected):

1. Mohammad Almoayyad, CSCE4890 Directed Study, Fall 2015
2. Jordan Sanders, CSCE4999 Senior Thesis, Spring 2016
 - Joined the UNT PhD program in Spring 2016
3. Erin Killian (UNT Department of Linguistics), Fall 2018–Spring 2019
4. Kathleen Hamilton (UNT Department of Linguistics), Fall 2019–Spring 2020
5. Elizabeth Wei, UNT TAMS, Spring 2020
 - Enrolled in the B.S. in Computer Science at Carnegie Mellon University in Fall 2020
6. Nishtha Prasad, CSCE4999 Senior Thesis, Fall 2020
7. Pranoy Dutta, UNT TAMS (Fall 2019–Summer 2021)
 - Enrolled in the B.S. in Computer Science at The University of Texas at Austin in Fall 2021
8. Saketh Kotamraju, Independent Study and Mentorship program, Frisco Independent School District (Fall 2020–Summer 2022)
 - Enrolled as a Turing Scholar (Honors Program) in the B.S. in Computer Science at The University of Texas at Austin in Fall 2022
9. Jathin Pranav Singaraju, UNT TAMS (Summer 2021–Spring 2023)
 - Enrolled in the UC Berkeley's Management, Entrepreneurship, & Technology Program (B.S. in Electrical Engineering and Computer Science + Business Administration) in Fall 2023
 - 2023 Barry M. Goldwater Scholar

Research Visits and Invited Talks

Research Visits.....

University of Jaén	Jaén, Spain
<i>Department of Computer Science</i>	December 17–21, 2018

Invited Talks.....

Bloomberg CTO Data Science Speaker Series	Online
<i>Towards Deeper Natural Language Understanding</i>	February 2022
Intelligence Community Academic Research Symposium (ICARS)	Online
<i>Mining Spatiotemporal Knowledge from Language and Images</i>	September 2021
Computer Science Faculty Seminar, University of Houston	Online
<i>Towards Deeper Natural Language Understanding</i>	March 12, 2021

Computer and Information Sciences Doctoral Seminar, University of Arkansas at Little Rock <i>Understanding Emojis and Events Outcomes</i>	Online February 5, 2021
Workshop on Noisy User-generated Text (W-NUT, collocated with EMNLP) <i>Understanding Emojis and Events Outcomes</i>	Online November 19, 2020
Intelligence Community Academic Research Symposium (ICARS) <i>Mining Spatiotemporal Knowledge from Language and Images</i>	Online September 2020
National Geospatial-Intelligence Agency <i>Mining Spatiotemporal Knowledge from Language and Images</i>	Research Webinar June 23, 2020
Iowa State University <i>Towards Deeper Natural Language Understanding</i>	Ames, IA November 18, 2019
University of Jaén <i>Natural Language Processing: Ongoing Projects at University of North Texas</i>	Jaén, Spain December 18, 2018
Southern Methodist University <i>Negation and Spatial Timelines</i>	Dallas, TX April 20, 2018
Southern Methodist University <i>Towards Deeper Semantics: Composition of Semantic Relations and Semantic Representation of Negation</i>	Dallas, TX October 1, 2015
Invited Talks (Industry and Outreach).....	
Warrior Scholar Program, University of Arizona <i>Are computers as smart as you think?</i>	Tucson, AZ July 25, 2023
The Loft Cinema, Science on Screen program (Talk + panel discussion with Jason Pacheco and Kwang-Sung Jun) <i>Are computers as smart as you think?</i>	Tucson, AZ May 11, 2023
University High School <i>Are computers as smart as you think?</i>	Tucson, AZ April 11, 2023
University of Arizona College of Science 2023 Lecture Series <i>Are computers as smart as you think?</i> https://www.youtube.com/live/MVmtOp15KGM	Tucson, AZ February 8, 2023
Council of Petroleum Accountants Societies (COPAS), 2019 Fall Meeting <i>Using Artificial Intelligence (AI) to Unlock Hidden Value</i> , with Tom Agnew	Tulsa, OK September 19, 2019
Council of Petroleum Accountants Societies (COPAS), Dallas Society <i>Using Artificial Intelligence (AI) to Unlock Hidden Value</i> , with Tom Agnew	Farmers Branch, TX March 21, 2019
Council of Petroleum Accountants Societies (COPAS) Fort Worth Society <i>Using Artificial Intelligence (AI) to Unlock Hidden Value</i> , with Tom Agnew	Fort Worth, TX February 12, 2019
Petroleum Engineer's Club of Dallas <i>Using Artificial Intelligence (AI) to Unlock Hidden Value</i> , with Tom Agnew	Dallas, TX May 18, 2018

Professional Service

Outside the University of Arizona, Arizona State University and University of North Texas.....

Boards, committees, and guest editorships:

- Chair, NAACL Regional Americas Fund (RAF) Committee, 2023
- Member, Executive Board of the North American Chapter of the Association for Computational Linguistics (NAACL), 2022
- Member, Advisory Board of the John Benjamin's Book Series on Natural Language Processing, February

2018–present

- Guest Editor, *Natural Language Engineering Special Issue on Processing Negation* (Cambridge University Press), with Roser Morante, November 2017–June 2020

Conference organization:

- Action Editor for the ACL Rolling Review (ARR) (2021–present)
- Area Chair of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)
- Area Chair of 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)
- Area Chair of the 61st Annual Meeting of the Association for Computational Linguistics (ACL 2023)
- Workshop Chair of the 61st Annual Meeting of the Association for Computational Linguistics (ACL 2023)
- Senior Program Committee of the Thirty-seventh AAAI Conference on Artificial Intelligence (AAAI-2023)
- Senior Area Chair of the 3th International Joint Conference on Natural Language Processing and the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (IJCNLP / ACL 2023)
- Senior Area Chair of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)
- Senior Area Chair of the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2022)
- Session Chair of the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2022)
- Session Chair of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)
- Area Chair of the 29th International Conference on Computational Linguistics (COLING 2022)
- Session Chair of the 29th International Conference on Computational Linguistics (COLING 2022)
- Senior Program Committee of the Thirty-sixth AAAI Conference on Artificial Intelligence (AAAI-2022)
- Area Chair of the 12th Language Resources and Evaluation Conference (LREC 2022)
- Area Chair of the 59th Annual Meeting of the Association for Computational Linguistics (ACL 2021)
- Area Chair of the 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2021)
- Session Chair of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)
- Virtual Infrastructure Co-Chair of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)
- Area Chair of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)
- Area Chair of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)
- Senior Program Committee of the Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-2020)
- Session Chair of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)
- Session Chair of the 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2019)
- Area Chair of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)
- Area Chair of the 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2019)
- Senior Program Committee of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-2019)
- Session Chair of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)
- System Demonstrations Chair of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)

- Publicity Chair of the 6th Joint Conference on Lexical and Computational Semantics (*SEM 2017)
- Area Chair of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2016)
- Area Chair of the Second Joint Conference on Lexical and Computational Semantics (*SEM 2013).

Workshop and shared task organization:

- Organizer of the 2018 Workshop on Computational Semantic beyond Verbs and Roles, collocated with NAACL and sponsored by NSF, with Roser Morante, <http://www.cse.unt.edu/sembear2018/>
- Organizer of the 2017 Workshop on Computational Semantic beyond Verbs and Roles, collocated with EACL and sponsored by NSF, with Roser Morante and Roser Saurí, <http://www.cse.unt.edu/sembear2017/>
- Organizer of the 2016 Workshop on Extra-Propositional Aspects of Meaning in Computational Linguistics, collocated with COLING and sponsored by NSF, with Roser Morante and Roser Saurí, <http://www.cse.unt.edu/expron2016/>
- Organizer of the 2015 Workshop on Extra-Propositional Aspects of Meaning in Computational Linguistics, collocated with NAACL and sponsored by NSF, with Roser Morante and Caroline Sporleder, <http://www.cse.unt.edu/expron2015/>
- Organizer of the First Joint Conference on Lexical and Computational Semantics (*SEM 2012) Shared Task: Revolving the Scope and Focus of Negation, with Roser Morante, <http://www.clips.ua.ac.be/sem2012-st-neg/>

External Doctoral Defense Committees:

- Robert Podschwadt (Georgia State University), ongoing (Committee Member)
Major Advisor: Daniel Takabi
- Venelin Kovatchev (University of Barcelona), July 2020 (Committee Member)
Major Advisor: Maria Antònia Martí
- Salud María Jiménez Zafra (University of Jaén), July 2019 (External Examiner)
Major Advisors: María Teresa Martín Valdivia and Luis Alfonso Ureña López
- Recipient of the Best Thesis Award by the Spanish Society for Natural Language Processing

Reviewer, Proposals:

- Panelist, National Science Foundation, 2022 (2 panels)
- Panelist, National Science Foundation, 2021 (2 panels)
- Panelist, National Science Foundation, 2020 (4 panels)
- Ad Hoc reviewer, Austrian Science Fund, 2017

Reviewer, Journals:

- Standing Reviewer, *Transactions of the Association for Computational Linguistics (TACL)*, May 2019–June 2023
- Standing Reviewer, *Computational Linguistics*, March 2020–March 2022
- Regular reviewer for *Communications of the ACM*, *Computational Linguistics*, *Journal of Linguistics*, *Natural Language Engineering*, *Language Resources and Evaluation Journal*, *PLOS ONE*, etc.

Reviewer, Conferences:

- I review for the main track of these conferences unless I serve as Area Chair or similar role: ACL, NAACL, EMNLP, *SEM, COLING, AACL, IJCAI, etc.

Reviewer and Mentor, Student Research Workshops Collocated with Conferences:

- I review and serve as post-acceptance mentor for the Student Research Workshops collocated with ACL, NAACL, RANLP, AACL, etc.

To the University of Arizona.....

To the College of Science:

Member, Lecture Series Committee

Fall 2023–Spring 2024

To the Department of Computer Science:

Member, Graduate Admissions Committee	Spring 2024
Chair, Career-Track Faculty Promotion Committee	Fall 2023
Member, Graduate Admissions Committee	Spring 2023
Member, Faculty Search Committee	Fall 2022–Spring 2023
To Arizona State University	
Member, Diversity, Inclusion, Equity and Belonging Faculty Council, Ira A. Fulton Schools of Engineering	Fall 2022–Spring 2022
<i>To the School of Computing and Augmented Intelligence (SCAI):</i>	
Member, PhD Admissions Committee	Fall 2022–Spring 2022
Member, Faculty Search Committee (two searches)	Fall 2021–Spring 2022
SCAI Advising Professor of the Month	November 2021
To University of North Texas	
Group III Representative, Oversight Committee on the Core Curriculum	September 2018–August 2021
Member, Faculty Search Committee, Department of Merchandising & Digital Retailing	Fall 2019–Spring 2020
Conversation Leader, UNT Honors College Great Conversations	February 25, 2020
Panel Moderator, UNT AI & Data Science Summit	October 11, 2019
Panelist, UNT Data Analytics Summit	May 4, 2018
<i>To the Department of Computer Science and Engineering:</i>	
Faculty Advisor, B.S. in Computer Science	Fall 2020–Spring 2021
Member, Undergraduate Committee	Fall 2020–Summer 2021
Member at Large, Personnel Affairs Committee	Fall 2020–Spring 2021
Member, Chair Search Committee	Fall 2020–Spring 2021
Chair, Faculty Search Committee (two positions)	Fall 2019–Spring 2020
Member, Faculty Search Committee	Fall 2018–Spring 2019
Member, Lecturer Search Committee	Spring 2018–Summer 2018
Member, Executive Committee	September 2015–August 2017
Member, Grade Appeal Committee	July 2015
Distinguished Speaker Series coordinator	September 2014–August 2021

Memberships

- Associations for Computational Linguistics (ACL), Member
- SIGSEM, ACL Special Interest Group on Computational Semantics, Member
- SIGLEX, ACL Special Interest Group on the Lexicon, Member