

Eduardo Blanco | Curriculum Vitae

✉ eduardoblanco@arizona.edu • 🌐 eduardoblanco.github.io/

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Education

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

Employment History

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

Defense Advanced Research Projects Agency	\$89,831
CONNECT: <i>Crafting Optimized Narratives to Network, Engage, and Cultivate Trust</i>	December 2024–December 2025
PI: Joshua Garland (Arizona State University), co-PI: Eduardo Blanco (subcontract, 100%)	
Office of Naval Research	\$199,285
<i>Generative Narrative Networks for Strategic Analysis and Forecasting Conflict</i>	July 2022–June 2025
PI: Steven Corman (Arizona State University), co-PI: Eduardo Blanco (subcontract, 100%)	
National Science Foundation	\$515,950
CAREER: <i>Understanding Negotiation in Positive Terms</i>	February 2019–February 2024
PI: Eduardo Blanco (100%), includes \$16,000 from two REU supplements	

National Geospatial-Intelligence Agency		\$388,214
<i>Mining Spatiotemporal Knowledge from Language and Images</i>	April 2020–March 2022	
PI: Eduardo Blanco (100%)		
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

Journals

- 2024 Subash Chandra Pakhrin, Neha Chauhan, Salman Khan, Jamie Upadhyaya, Moriah Rene Beck, and Eduardo Blanco. "Prediction of human O-linked glycosylation sites using stacked generalization and embeddings from pre-trained protein language model". In: *Bioinformatics* 40.11 (2024), btae643. URL: <https://doi.org/10.1093/bioinformatics/btae643>.
- Andrew Vargas Palacios, Pujan Acharya, Anthony Stephen Peidl, Moriah Rene Beck, Eduardo Blanco, Avdesh Mishra, Tasneem Bawa-Khalfe, and Subash Chandra Pakhrin. "SumoPred-PLM: human SUMOylation and SUMO2/3 sites Prediction using Pre-trained Protein Language Model". In: *NAR Genomics and Bioinformatics* 6.1 (2024), lqae011. URL: <https://doi.org/10.1093/nargab/lqae011>.
- 2022 Jane E Hamilton, Eduardo Blanco, Salih Selek, Kelly L Wirfel, Elmer V Bernstam, Dawn Velligan, Meghana Gudala, and Kirk Roberts. "Patient and Provider Perspectives on Medication Non-adherence Among Patients with Depression and/or Diabetes in Diverse Community Settings—A Qualitative Analysis". In: *Patient Preference and Adherence* 16 (2022), pp. 1581–1594.
- 2021 Eduardo Blanco and Roser Morante. "Processing negation: An introduction to the special issue". In: *Natural Language Engineering* 27.2 (2021), 119–120. URL: <https://doi.org/10.1017/S1351324920000522>.
- Dhivya Chinnappa and Eduardo Blanco. "Extracting possessions from text: Experiments and error analysis". In: *Natural Language Engineering* (2021), 1–22. URL: <https://doi.org/10.1017/S1351324921000012>.
- Kaushik Madala, Shraddha Piparia, Eduardo Blanco, Hyunsook Do, and Renee Bryce. "Model elements identification using neural networks: a comprehensive study". In: *Requirements Engineering* 26 (2021), pp. 67–96. URL: <https://link.springer.com/article/10.1007/s00766-020-00332-2>.
- Roser Morante and Eduardo Blanco. "Recent advances in processing negation". In: *Natural Language Engineering* 27.2 (2021), 121–130. URL: <https://doi.org/10.1017/S1351324920000534>.
- Paul Tarau and Eduardo Blanco. "Interactive Text Graph Mining with a Prolog-Based Dialog Engine". In: *Theory and Practice of Logic Programming* 21.2 (2021), 244–263.
- Alakananda Vempala and Eduardo Blanco. "Temporally anchored spatial knowledge: Corpora and experiments". In: *Natural Language Engineering* 27.5 (2021), 519–543. URL: <https://doi.org/10.1017/S1351324920000212>.
- 2020 Alakananda Vempala and Eduardo Blanco. "Extracting Biographical Spatial Timelines: Corpus and Experiments". In: *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 28 (2020), pp. 1395–1403. URL: <https://ieeexplore.ieee.org/document/9072395>.
- 2019 Manar Alohaly, Hassan Takabi, and Eduardo Blanco. "Automated extraction of attributes from natural language attribute-based access control (ABAC) Policies". In: *Cybersecurity* 2.2 (2019).
- 2015 Eduardo Blanco and Dan Moldovan. "A Semantic Logic-Based Approach to Determine Textual Similarity". In: *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 23.4 (2015), pp. 683–693.
- 2014 Eduardo Blanco and Dan Moldovan. "Composition of Semantic Relations: Theoretical Framework and Case Study". In: *ACM Transactions on Speech and Language Processing* 10.4 (2014). URL: <https://doi.org/10.1145/2513146>.

Eduardo Blanco and Dan Moldovan. "Retrieving implicit positive meaning from negated statements". In: *Natural Language Engineering* 20.4 (2014), 501–535. URL: <https://doi.org/10.1017/S1351324913000041>.

- 2012 Eduardo Blanco Hakki C. Cankaya and Dan Moldovan. "Semantic composition of AT-LOCATION relation with other relations". In: *Natural Language Engineering* 18 (3 2012), pp. 343–374. URL: <https://doi.org/10.1017/S1351324911000222>.

Peer-Reviewed Conferences and Workshops.....

- 2025 Enfa Fane, Md Nayem Uddin, Oghenevovwe Ikumariogbe, Daniyal Kashif, Eduardo Blanco, and Steven Corman. "BEMEAE: Moving Beyond Exact Span Match for Event Argument Extraction". In: *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers)*. Albuquerque, New Mexico, 2025, pp. 5734–5749. URL: <https://aclanthology.org/2025.naacl-long.295/>.

MohammadHossein Rezaei and Eduardo Blanco. "Making Language Models Robust Against Negation". In: *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers)*. Albuquerque, New Mexico, 2025, pp. 8123–8142. URL: <https://aclanthology.org/2025.naacl-long.413/>.

Xiaoying Song, Sujana Mamidisetty, Eduardo Blanco, and Lingzi Hong. "Assessing the Human Likeness of AI-Generated Counterspeech". In: *Proceedings of the 31st International Conference on Computational Linguistics*. Abu Dhabi, UAE, 2025, pp. 3547–3559. URL: <https://aclanthology.org/2025.coling-main.239/>.

Xiaoying Song, Sharon Lisseth Perez, Xinchun Yu, Eduardo Blanco, and Lingzi Hong. "Echoes of Discord: Forecasting Hater Reactions to Counterspeech". In: *Findings of the Association for Computational Linguistics: NAACL 2025*. Albuquerque, New Mexico, 2025, pp. 4892–4905. URL: <https://aclanthology.org/2025.findings-naacl.275/>.

Xinchun Yu, Hayden Arnold, Benjamin Su, and Eduardo Blanco. "Measuring and Forecasting Conversation Incivility: the Role of Antisocial and Prosocial Behaviors". In: *Proceedings of the International AAAI Conference on Web and Social Media*. 2025, pp. 2167–2181. URL: <https://ojs.aaai.org/index.php/ICWSM/article/view/35926>.

- 2024 Jiangshu Du, Yibo Wang, Wenting Zhao, Zhongfen Deng, Shuaiqi Liu, Renze Lou, Henry Zou, Pranav Narayanan Venkit, Nan Zhang, Mukund Srinath, Haoran Zhang, Vipul Gupta, Yinghui Li, Tao Li, Fei Wang, Qin Liu, Tianlin Liu, Pengzhi Gao, Congying Xia, Chen Xing, Cheng Jiayang, Zhaowei Wang, Ying Su, Raj Shah, Ruohao Guo, Jing Gu, Haoran Li, Kangda Wei, Zihao Wang, Lu Cheng, Surangika Ranathunga, Meng Fang, Jie Fu, Fei Liu, Ruihong Huang, Eduardo Blanco, Yixin Cao, Rui Zhang, Philip Yu, and Wenpeng Yin. "LLMs Assist NLP Researchers: Critique Paper (Meta-)Reviewing". In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*. Miami, Florida, USA, 2024, pp. 5081–5099. URL: <https://aclanthology.org/2024.emnlp-main.292>.

Lingzi Hong, Pengcheng Luo, Eduardo Blanco, and Xiaoying Song. "Outcome-Constrained Large Language Models for Countering Hate Speech". In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*. Miami, Florida, USA, 2024, pp. 4523–4536. URL: <https://aclanthology.org/2024.emnlp-main.260>.

Yash Mahajan, Naman Bansal, Eduardo Blanco, and Santu Karmaker. "ALIGN-SIM: A Task-Free Test Bed for Evaluating and Interpreting Sentence Embeddings through Semantic Similarity Alignment". In: *Findings of the Association for Computational Linguistics: EMNLP 2024*. Miami, Florida, USA, 2024, pp. 7393–7428. URL: <https://aclanthology.org/2024.findings-emnlp.436>.

Javad Rafiei Asl, Prajwal Panzade, Eduardo Blanco, Daniel Takabi, and Zhipeng Cai. "RobustSen-tEmbed: Robust Sentence Embeddings Using Adversarial Self-Supervised Contrastive Learning". In: *Findings of the Association for Computational Linguistics: NAACL 2024*. Mexico City, Mexico, 2024, pp. 3795–3809. URL: <https://aclanthology.org/2024.findings-naacl.241>.

MohammadHossein Rezaei and Eduardo Blanco. "Paraphrasing in Affirmative Terms Improves Negation Understanding". In: *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*. Bangkok, Thailand, 2024, pp. 602–615. URL: <https://aclanthology.org/2024.acl-short.55>.

Mayank Singh and Eduardo Blanco. "Learning to Generate Rules for Realistic Few-Shot Relation Classification: An Encoder-Decoder Approach". In: *Findings of the Association for Computational Linguistics: EMNLP 2024*. Miami, Florida, USA, 2024, pp. 5907–5921. URL: <https://aclanthology.org/2024.findings-emnlp.341>.

Md Nayem Uddin, Enfa George, Eduardo Blanco, and Steven Corman. "Generating Uncontextualized and Contextualized Questions for Document-Level Event Argument Extraction". In: *Proceedings of the 2024 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers)*. Mexico City, Mexico, 2024, pp. 5612–5627. URL: <https://aclanthology.org/2024.naacl-long.312>.

Md Nayem Uddin, Enfa Rose George, Eduardo Blanco, and Steven R. Corman. "Asking and Answering Questions to Extract Event-Argument Structures". In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. Torino, Italia, 2024, pp. 1609–1626. URL: <https://aclanthology.org/2024.lrec-main.142>.

Zijie Wang, Farzana Rashid, and Eduardo Blanco. "Interpreting Answers to Yes-No Questions in Dialogues from Multiple Domains". In: *Findings of the Association for Computational Linguistics: NAACL 2024*. Mexico City, Mexico, 2024, pp. 2111–2128. URL: <https://aclanthology.org/2024.findings-naacl.136>.

Zhaomin Xiao, Yan Huang, and Eduardo Blanco. "Analyzing Large Language Models' Capability in Location Prediction". In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. Torino, Italia, 2024, pp. 951–958. URL: <https://aclanthology.org/2024.lrec-main.85>.

Xinchen Yu, Eduardo Blanco, and Lingzi Hong. "Hate Cannot Drive Out Hate: Forecasting Conversation Incivility following Replies to Hate Speech". In: *Proceedings of the International AAAI Conference on Web and Social Media*. 2024, pp. 1740–1752. URL: <https://ojs.aaai.org/index.php/ICWSM/article/view/31422>.

- 2023 Sushma Anand Akoju, Robert Vacareanu, Eduardo Blanco, Haris Riaz, and Mihai Surdeanu. "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)*. Toronto, Canada, 2023, pp. 157–168. URL: <https://aclanthology.org/2023.nlrse-1.12>.

Abdullah Albanyan, Ahmed Hassan, and Eduardo Blanco. "Finding Authentic Counterhate Arguments: A Case Study with Public Figures". In: *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*. Singapore, 2023, pp. 13862–13876. URL: <https://aclanthology.org/2023.emnlp-main.855>.

Abdullah Albanyan, Ahmed Hassan, and Eduardo Blanco. "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)*. Toronto, Canada, 2023, pp. 71–88. URL: <https://aclanthology.org/2023.starsem-1.8>.

Javad Asl, Eduardo Blanco, and Daniel Takabi. "RobustEmbed: Robust Sentence Embeddings Using Self-Supervised Contrastive Pre-Training". In: *Findings of the Association for Computational Linguistics: EMNLP 2023*. Singapore, 2023, pp. 4587–4603. URL: <https://aclanthology.org/2023.findings-emnlp.305>.

Portia Cooper, Mihai Surdeanu, and Eduardo Blanco. "Hiding in Plain Sight: Tweets with Hate Speech Masked by Homoglyphs". In: *Findings of the Association for Computational Linguistics: EMNLP 2023*. Singapore, 2023, pp. 2922–2929. URL: <https://aclanthology.org/2023.findings-emnlp.192>.

Shivam Mathur, Keun Park, Dhivya Chinnappa, Saketh Kotamraju, and Eduardo Blanco. "Interpreting Answers to Yes-No Questions in User-Generated Content". In: *Findings of the Association for Computational Linguistics: EMNLP 2023*. Singapore, 2023, pp. 14137–14161. URL: <https://aclanthology.org/2023.findings-emnlp.942>.

Zijie Wang, Md Hossain, Shivam Mathur, Terry Melo, Kadir Ozler, Keun Park, Jacob Quintero, MohammadHossein Rezaei, Shreya Shakya, Md Uddin, and Eduardo Blanco. "Interpreting Indirect Answers to Yes-No Questions in Multiple Languages". In: *Findings of the Association for Computational Linguistics: EMNLP 2023*. Singapore, 2023, pp. 2210–2227. URL: <https://aclanthology.org/2023.findings-emnlp.146>.

Zhaomin Xiao, Yan Huang, and Eduardo Blanco. "Context Helps Determine Spatial Knowledge from Tweets". In: *Findings of the Association for Computational Linguistics: IJCNLP-AACL 2023 (Findings)*. Nusa Dua, Bali, 2023, pp. 149–160. URL: <https://aclanthology.org/2023.findings-ijcnlp.13>.

Xinchen Yu, Ashley Zhao, Eduardo Blanco, and Lingzi Hong. "A Fine-Grained Taxonomy of Replies to Hate Speech". In: *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*. Singapore, 2023, pp. 7275–7289. URL: <https://aclanthology.org/2023.emnlp-main.450>.

2022 Abdullah Albanyan and Eduardo Blanco. "Pinpointing Fine-Grained Relationships between Hateful Tweets and Replies". In: 2022, pp. 10418–10426. URL: <https://ojs.aaai.org/index.php/AAAI/article/view/21284>.

Md Mosharaf Hossain and Eduardo Blanco. "Leveraging Affirmative Interpretations from Negation Improves Natural Language Understanding". In: *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*. Abu Dhabi, United Arab Emirates, 2022, pp. 5833–5847. URL: <https://aclanthology.org/2022.emnlp-main.393>.

Md Mosharaf Hossain, Dhivya Chinnappa, and Eduardo Blanco. "An Analysis of Negation in Natural Language Understanding Corpora". In: *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*. Dublin, Ireland, 2022, pp. 716–723. URL: <https://aclanthology.org/2022.acl-short.81>.

Md Mosharaf Hossain, Luke Holman, Anusha Kakileti, Tiffany Kao, Nathan Brito, Aaron Mathews, and Eduardo Blanco. "A Question-Answer Driven Approach to Reveal Affirmative Interpretations from Verbal Negations". In: *Findings of the Association for Computational Linguistics: NAACL 2022*. Seattle, United States, 2022, pp. 490–503. URL: <https://aclanthology.org/2022.findings-naacl.37>.

Krishna Sanagavarapu, Jathin Singaraju, Anusha Kakileti, Anirudh Kaza, Aaron Mathews, Helen Li, Nathan Brito, and Eduardo Blanco. "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: Human Language Technologies*. Seattle, United States, 2022, pp. 4677–4695. URL: <https://aclanthology.org/2022.naacl-main.345>.

Zhaomin Xiao and Eduardo Blanco. "Are People Located in the Places They Mention in Their Tweets? A Multimodal Approach". In: *Proceedings of the 29th International Conference on Computational Linguistics*. Gyeongju, Republic of Korea, 2022, pp. 2561–2571. URL: <https://aclanthology.org/2022.coling-1.226>.

Xinchen Yu, Eduardo Blanco, and Lingzi Hong. "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: Human Language Technologies*. Seattle, United States, 2022, pp. 5918–5930. URL: <https://aclanthology.org/2022.naacl-main.433>.

2021 Saketh Kotamraju and Eduardo Blanco. "Written Justifications are Key to Aggregate Crowdsourced Forecasts". In: *Findings of the Association for Computational Linguistics: EMNLP 2021*. Punta Cana, Dominican Republic, 2021, pp. 4206–4216. URL: <https://aclanthology.org/2021.findings-emnlp.355>.

2020 Dhivya Chinnappa, Srikala Murugan, and Eduardo Blanco. "Beyond Possession Existence: Duration and Co-Possession". In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*. Online, 2020, pp. 8332–8341. URL: <https://aclanthology.org/2020.acl-main.739>.

Dhivya Chinnappa, Alexis Palmer, and Eduardo Blanco. "WikiPossessions: Possession Timeline Generation as an Evaluation Benchmark for Machine Reading Comprehension of Long Texts". In: *Proceedings of the 12th Language Resources and Evaluation Conference*. Marseille, France, 2020, pp. 1110–1117. URL: <https://aclanthology.org/2020.lrec-1.140>.

Md Mosharaf Hossain, Antonios Anastasopoulos, Eduardo Blanco, and Alexis Palmer. "It's not a Non-Issue: Negation as a Source of Error in Machine Translation". In: *Findings of the Association for Computational Linguistics: EMNLP 2020*. Online, 2020, pp. 3869–3885. URL: <https://aclanthology.org/2020.findings-emnlp.345>.

Md Mosharaf Hossain, Kathleen Hamilton, Alexis Palmer, and Eduardo Blanco. "Predicting the Focus of Negation: Model and Error Analysis". In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*. Online, 2020, pp. 8389–8401. URL: <https://aclanthology.org/2020.acl-main.743>.

Md Mosharaf Hossain, Venelin Kovatchev, Pranoy Dutta, Tiffany Kao, Elizabeth Wei, and Eduardo Blanco. "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)*. Online, 2020, pp. 9106–9118. URL: <https://aclanthology.org/2020.emnlp-main.732>.

Salud María Jiménez-Zafra, Roser Morante, Eduardo Blanco, María Teresa Martín Valdivia, and L. Alfonso Ureña López. "Detecting Negation Cues and Scopes in Spanish". In: *Proceedings of the 12th Language Resources and Evaluation Conference*. Marseille, France, 2020, pp. 6902–6911. URL: <https://aclanthology.org/2020.lrec-1.853>.

Srikala Murugan, Dhivya Chinnappa, and Eduardo Blanco. "Determining Event Outcomes: The Case of #fail". In: *Findings of the Association for Computational Linguistics: EMNLP 2020*. Online, 2020, pp. 4021–4033. URL: <https://aclanthology.org/2020.findings-emnlp.359>.

Farzana Rashid, Tommaso Fornaciari, Dirk Hovy, Eduardo Blanco, and Fernando Vega-Redondo. "Helpful or Hierarchical? Predicting the Communicative Strategies of Chat Participants, and their Impact on Success". In: *Findings of the Association for Computational Linguistics: EMNLP 2020*. Online, 2020, pp. 2366–2371. URL: <https://aclanthology.org/2020.findings-emnlp.214>.

Jordan Sanders, Meghana Gudala, Kathleen Hamilton, Nishtha Prasad, Jordan Stovall, Eduardo Blanco, Jane E Hamilton, and Kirk Roberts. "Extracting Adherence Information from Electronic Health Records". In: *Proceedings of the 28th International Conference on Computational Linguistics*. Barcelona, Spain (Online), 2020, pp. 680–695. URL: <https://aclanthology.org/2020.coling-main.60>.

Paul Tarau and Eduardo Blanco. "Interactive Text Graph Mining with a Prolog-based Dialog Engine". In: *Practical Aspects of Declarative Languages*. 2020, pp. 3–19. URL: https://link.springer.com/chapter/10.1007/978-3-030-39197-3_1.

- 2019 Manar Alohaly, Hassan Takabi, and Eduardo Blanco. "Towards an Automated Extraction of ABAC Constraints from Natural Language Policies". In: *IFIP International Conference on ICT Systems Security and Privacy Protection*. Springer. 2019, pp. 105–119. URL: <https://www.springerprofessional.de/en/towards-an-automated-extraction-of-abac-constraints-from-natural/16817308>.

Dhivya Chinnappa, Srikala Murugan, and Eduardo Blanco. "Extracting Possessions from Social Media: Images Complement Language". In: *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*. Hong Kong, China, 2019, pp. 663–672. URL: <https://www.aclweb.org/anthology/D19-1061>.

Zahra Sarabi and Eduardo Blanco. "Identifying the Focus of Negation Using Discourse Structure". In: *Proceedings of the Thirty-Second International Florida Artificial Intelligence Research Society Conference (FLAIRS)*. Sarasota, Florida, 2019, pp. 448–452. URL: <https://aaai.org/ocs/index.php/FLAIRS/FLAIRS19/paper/view/18145>.

Zahra Sarabi, Erin Killian, Eduardo Blanco, and Alexis Palmer. "A Corpus of Negations and their Underlying Positive Interpretations". In: *Proceedings of the Eighth Joint Conference on Lexical and Computational Semantics (*SEM 2019)*. Minneapolis, Minnesota, 2019, pp. 158–167. URL: <https://www.aclweb.org/anthology/S19-1017>.

Abhishek Singh, Eduardo Blanco, and Wei Jin. "Incorporating Emoji Descriptions Improves Tweet Classification". In: *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long and Short Papers)*. Minneapolis, Minnesota, 2019, pp. 2096–2101. URL: <https://www.aclweb.org/anthology/N19-1214>.

- 2018 Manar Alohaly, Hassan Takabi, and Eduardo Blanco. "A Deep Learning Approach for Extracting Attributes of ABAC Policies". In: *Proceedings of the 23rd ACM on Symposium on Access Control Models and Technologies*. SACMAT '18. Indianapolis, Indiana, USA, 2018, 137–148. URL: <https://doi.org/10.1145/3205977.3205984>.

Dhivya Chinnappa and Eduardo Blanco. "Mining Possessions: Existence, Type and Temporal Anchors". In: *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*. New Orleans, Louisiana, 2018, pp. 496–505. URL: <https://aclanthology.org/N18-1046>.

Dhivya Chinnappa and Eduardo Blanco. "Possessors Change Over Time: A Case Study with Artworks". In: *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*. Brussels, Belgium, 2018, pp. 2278–2287. URL: <https://aclanthology.org/D18-1251>.

Vivek Reddy Doudagiri, Alakananda Vempala, and Eduardo Blanco. "Annotating If the Authors of a Tweet are Located at the Locations They Tweet About". In: *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*. Miyazaki, Japan, 2018. URL: <https://aclanthology.org/L18-1280/>.

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- Eduardo Blanco and Dan Moldovan. "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: Human Language Technologies*. Montréal, Canada, 2012, pp. 456–465. URL: <http://www.aclweb.org/anthology/N12-1050>.
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- Eduardo Blanco and Dan Moldovan. "Semantic Representation of Negation Using Focus Detection". In: *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*. Portland, Oregon, USA, 2011, pp. 581–589. URL: <https://aclanthology.org/P11-1059>.
- Eduardo Blanco and Dan Moldovan. "Some Issues on Detecting Negation from Text". In: *Proceedings of the 24th Florida Artificial Intelligence Research Society Conference (FLAIRS-24)*. Palm Beach, Florida, 2011, pp. 228–233. URL: <https://aaai.org/ocs/index.php/FLAIRS/FLAIRS11/paper/view/2629>.
- Eduardo Blanco and Dan Moldovan. "Unsupervised Learning of Semantic Relation Composition". In: *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*. Portland, Oregon, USA, 2011, pp. 1456–1465. URL: <https://aclanthology.org/P11-1146>.
- 2010 Eduardo Blanco, Hakki C. Cankaya, and Dan Moldovan. "Composition of Semantic Relations: Model and Applications". In: *Coling 2010: Posters*. Beijing, China, 2010, pp. 72–80. URL: <http://www.aclweb.org/anthology/C10-2009>.
- Eduardo Blanco and Dan Moldovan. "Automatic Discovery of Manner Relations and its Applications". In: *Proceedings of the 2010 Conference on Empirical Methods in Natural Language Processing*. Cambridge, MA, 2010, pp. 315–324. URL: <https://aclanthology.org/D10-1031>.
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Teaching

At University of Arizona.....

Spring 2025	CSC4-583 Text Retrieval and Web Search
Fall 2024	CSC585 Algorithms for Natural Language Processing
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.....

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

At University of North Texas.....

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.....

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

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	Online
<i>Understanding Emojis and Events Outcomes</i>	February 5, 2021
Workshop on Noisy User-generated Text (W-NUT, collocated with EMNLP)	Online
<i>Understanding Emojis and Events Outcomes</i>	November 19, 2020
Intelligence Community Academic Research Symposium (ICARS)	Online
<i>Mining Spatiotemporal Knowledge from Language and Images</i>	September 2020
National Geospatial-Intelligence Agency	Research Webinar
<i>Mining Spatiotemporal Knowledge from Language and Images</i>	June 23, 2020
Iowa State University	Ames, IA
<i>Towards Deeper Natural Language Understanding</i>	November 18, 2019
University of Jaén	Jaén, Spain
<i>Natural Language Processing: Ongoing Projects at University of North Texas</i>	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 August 5, 2024
The Men's Lunch Bunch <i>Are computers as smart as you think?</i>	Tucson, AZ November 7, 2024
Rotary Club Of Tucson <i>Are computers as smart as you think?</i>	Tucson, AZ March 20, 2024
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:

- Member, Advisory Board of the Sociedad Española para el Procesamiento del Lenguaje Natural (Spanish Society for Natural Language Processing), December 2024–present
- 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)
- Senior Area Chair of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP)

- 2025)
- Area Chair of the Demo Track of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)
 - Senior Area Chair of the 2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL 2025)
 - Visa Co-Chair of the 2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL 2025)
 - Senior Area Chair of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)
 - Named Outstanding Senior Area Chair
 - Area Chair of the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024)
 - 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 / AACL 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:

- Member, Best Paper Award Committee, The 11th Workshop on Argument Mining (ArgMining 2024).
- Organizer of the 2018 Workshop on Computational Semantics 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 Semantics 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/exprom2016/>
- 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/exprom2015/>
- 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), 2024 (Committee Member)
Major Advisor: Daniel Takabi
- Venelin Kovatchev (University of Barcelona), 2020 (Committee Member)
Major Advisor: Maria Antònia Martí
- Salud María Jiménez Zafra (University of Jaén), 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, 2024 (1 panel)
- 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 and editorships, Journals:

- Action Editor, *Computational Linguistics*, April 2024–present
- Standing Reviewer, *Transactions of the Association for Computational Linguistics (TACL)*, May 2019–present
- Standing Reviewer, *Computational Linguistics*, March 2020–March 2024
- 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, AAAI, IJCAI, etc.

Reviewer and Mentor, Student Research Workshops Collocated with Conferences:

- I regularly review and serve as post-acceptance mentor for the Student Research Workshops collocated with ACL, NAACL, 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:

Chair, Faculty Search Committee Fall 2024–Spring 2025

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

To the Ira A. Fulton Schools of Engineering

Member, Diversity, Inclusion, Equity and Belonging Faculty Council Fall 2022–Spring 2022

To the School of Computing and Augmented Intelligence (SCAI):

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 the 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

To the Department of Computer Science and Engineering:

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