

Francielle Vargas

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[\[page\]](#) [\[dblp\]](#) [\[linkedin\]](#) [\[google scholar\]](#) [\[github\]](#)

Education

PhD, Computer Science and Computational Mathematics

University of São Paulo

Advisor: [Thiago A. S. Pardo](#)

Co-Advisor: [Fabrício Benevenuto](#)

August 2019 - current

MSc, Computer Science and Computational Mathematics

University of São Paulo

Thesis: Semantic clustering of aspects for opinion mining [pdf](#)

Advisor: [Thiago A. S. Pardo](#)

August 2015 - November 2017

BA, Linguistics

Federal University of Minas Gerais

August 2010 - June 2014

BSc, Information Systems

Pontifical Catholic University of Minas Gerais

August 2006 - December 2009

Research Groups

[LOCUS - Social Computing Lab](#), 2021/2023

Computer Science Department, Federal University of Minas Gerais, Brazil.

[NILC - Interinstitutional Center for Computational Linguistics](#), 2015/2023

Institute of Mathematical and Computer Sciences, University of São Paulo, Brazil.

Organizing and Program Committee

Program Committee

1. **Discourse and Pragmatics Track.** In *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
2. **Resources and Evaluation Track.** In *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
3. **NLP Applications Track.** In *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
4. **Sentiment Analysis, Stylistic Analysis, and Argument Mining Track.** In *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
5. **Natural Language Generation Track.** In *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
6. **Computational Social Science and Cultural Analytics Track.** In *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
7. **3rd Workshop on Computational Approaches to Discourse.** In *29th International Conference on Computational Linguistics (COLING 2022)*. [see](#)

8. **9th Workshop on Argument Mining.** In *29th International Conference on Computational Linguistics (COLING 2022)*. [see](#)
9. **6th Workshop on Online Abuse and Harms.** In *The 2022 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT 2022)*. [see](#)
10. **The NAACL Student Research Workshop.** In *The 2022 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT 2022)*. [see](#)
11. **22th Workshop on Computational Models of Natural Argument.** In *9th International Conference on Computational Models of Argument (COMMA 2022)*. [to appear](#)
12. **1st Workshop on Argumentation & Machine Learning.** In *9th International Conference on Computational Models of Argument (COMMA 2022)*. [see](#)
13. **5th International Workshop Challenges and Applications of Automated Extraction of Socio-political Events from Text.** In *2022 Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
14. **4th International Workshop Challenges and Applications of Automated Extraction of Socio-political Events from Text.** In *59th Annual Meeting of the Association for Computational Linguistics and 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)*. [see](#)

Organizing Committee

1. **Committee Member.** 5th International Workshop Challenges and Applications of Automated Extraction of Socio-political Events from Text. In *The 2022 Empirical Methods in Natural Language Processing (EMNLP 2022)*. [see](#)
2. **Accessibility Chair.** 16th International Conference on Web and Social Media (ICWSM'22). [see](#)
3. **Diversity, Equity, and Inclusion Chair.** 15th International AAAI Conference on Web and Social Media (ICWSM'21). [see](#)

Publications

Journals

Vargas, F.A., Pardo, T.A.S., Benevenuto, F., Schmeisser, W., Zaczynska, Z., Rabinovich, Z. (2022). Discourse-annotation guideline using rhetorical structure theory: multilingual examples. *Dialogue & Discourse Journal*, pp. 1-63. [submitted](#)

Vargas, F.A., Carvalho, I., Góes, F.R., Pardo, T.A.S and Benevenuto, F. (2022). An expert annotated corpus and a contextual-aware offensive lexicon for Brazilian hate speech detection. *Natural Language Engineering Journal*, pp. 1-22. [accepted/to appear](#)

Conferences

Vargas, F.A., D'Alessandro, J., Rabinovich, Z., Benevenuto, F., Pardo, T.A.S (2022). Rhetorical structure approach online deception detection: A survey. *13th Conference on Language Resources and Evaluation (LREC)*, pp. 5906-5915. Marseille, France. [pdf](#)

Vargas, F.A., Carvalho, I., Góes, F.R., Pardo, T.A.S and Benevenuto, F. (2022). HateBR: A expert annotated corpus of Brazilian Instagram comments for offensive language and hate speech detection. *13th Conference on Language Resources and Evaluation (LREC)*, pp. 7174-7183. Marseille, France. [pdf](#)

Machado, M., Pardo, T.A.S., Ruiz, E. E. S., Di Felippo, A., **Vargas, F.A.** (2022). Implicit aspect clues in Portuguese texts: analysis and categorization. *15th International Conference on Computational Processing of Portuguese (PROPOR)*, pp. 68–78. Fortaleza, Brazil. [pdf](#)

Vargas, F.A. Benevenuto, F. , Pardo, T.A.S (2021). Toward discourse-aware models for multilingual fake news detection. *International Conference Recent Advances in Natural Language Processing (RANLP)*, pp. 210-218. Held Online. [pdf](#)

Vargas, F.A., Góes, F.R., Carvalho, I., Benevenuto, F. and Pardo, T.A.S. (2021). Contextual-lexicon approach for abusive language detection. *International Conference Recent Advances in Natural Language Processing - Deep Learning for Natural Language Processing Methods and Applications (RANLP)*, pp. 1442-1451. Held Online. [pdf](#)

Vargas, F.A., Santos, R. R. S and Rocha, P. R. (2020) Identifying fine-grained opinion and classifying polarity on coronavirus pandemic. *9th Brazilian Conference on Intelligent Systems (BRACIS)*, pp. 511-520. Rio Grande, Brazil. [pdf](#)

Vargas, F.A. and Pardo, T.A.S. (2018). Aspect clustering methods for sentiment analysis. *13th International Conference on Computational Processing of Portuguese (PROPOR)*, pp. 365-374. Canela, Brazil. [pdf](#)

Vargas, F.A. and Pardo, T.A.S. (2017). Hierarchical clustering of aspects for opinion mining: a corpus study. *9th Escola Brasileira de Linguística Computacional (EBRALC)*, pp. 69-84. São Leopoldo, Brazil. [pdf](#)

Workshops

Nurse, J. R., **Vargas, F. A.**, Hassan, N, Wang, D., Andriotis, P., Ghenai, A., Jaidka, K., Mustafaraj, E., Joseph, K., Welles, B. F. (2021) Towards a diverse, inclusive, accessible and equitable AAAI international conference on web and social media (ICWSM). *Workshop Proceedings of the 15th International AAAI Conference on Web and Social Media (ICWSM)*, pages 1-14. Held Online. [pdf](#)

Vargas, F.A. and Pardo, T.A.S (2020). Linguistic rules for fine-grained opinion extraction. *Workshop Proceedings of the 14th International AAAI Conference on Web and Social Media (ICWSM)*, pp. 1-6. Held Online. [pdf](#)

Vargas, F.A., Pardo, T.A.S. (2020) Studying dishonest intentions in texts. *st International Workshop on Deceptive AI*. In Communications in Computer and Information Science book series (CCIS,volume 1296). pp. 166-178. Held Online. [pdf](#)

Pardo, T.A.S., Baptista, J., Duran, M.S., Nunes, M.G.V., Nóbrega, F.A.A., Aluísio, S.M., Di Felippo, A., Seno, E.R.M., Silva, R.R., Anchieta, R.T., Brum, H.B., Dias, M.S., Martins, R.S.O., Maziero, E.G., Souza, J.W.C., **Vargas, F.A.** (2017). The coreference annotation of the CSTNews corpus. In the *2nd Workshop on Evaluation of Human Language Technologies for Iberian Languages*. Workshop Proceedings of the 33th Conference of the Spanish Society for Natural Language Processing (SEPLN). 102-112. Murcia, Spain. [pdf](#)

Technical reports

Vargas, F.A. and Pardo, T.A.S. (2017). Empirical study on clustering and hierarchical organization of aspects for opinion mining. *Technical ICMC's Reports*, USP, no.418.48p. [pdf](#)

2019/2021: **Graduate Research Assistant - Dept. of Computer Science.**
University of São Paulo. [pdf](#)
2021/2021: **Graduate Teaching Assistant in Neural Networks and Deep Learning.**
University of São Paulo. to appear
2020/2020: **Graduate Teaching Assistant - Computing Theory and Compilers.**
University of São Paulo. [pdf](#)
2016/2016: **Graduate Teaching Assistant in Computer Seminars.**
University of São Paulo. [pdf](#)
2015/2017: **Graduate Research Assistant - Dept. of Computer Science.**
University of São Paulo. [pdf](#)
2011/2014: **Undergraduate Research Assistant - Dept. of Linguistics.**
Federal University of Minas Gerais. [pdf](#)

Industry Positions

2021/2022 **Data Science Analyst.** Webex-Cisco via Telus International. [\[see\]](#), [\[webex\]](#)
2018/2018 **Language Engineer.** Amazon via Appen. [\[cfg\]](#) [\[ner\]](#) [\[search query\]](#) [\[connota\]](#)
2014/2015: **System Analyst.** Unisys Corporation.
2009/2010: **System Analyst.** Grupo Barcelos.

Conference participation

2022: 13th International Conference on Language Resources and Evaluation (LREC). [pdf](#)
2021: 16th Recent Advances in Natural Language Processing (RANLP). [pdf](#)
2021: 15th International AAAI Conference on Web and Social Media (ICWSM) . [pdf](#)
2020: The 2022 Empirical Methods in Natural Language Processing (EMNLP). [pdf](#)
2020: 9th Brazilian Conference on Intelligent Systems (BRACIS). [pdf](#)
2020: 12th International Conference on Language Resources and Evaluation (LREC). [pdf](#)
2017: 9th Brazilian School on Computational Linguistics (EBRALC). [pdf](#)
2013: 29th Congresso Latino Americano de Sociologia: Crise e Emergências Sociais em América Latina (ALAS). [pdf](#)
2013: 4th International Symposium on Letters and Linguistics (SILEL) [pdf](#)

Mentoring

2020: **Computer Science Undergraduate Student**, Lucas Sobral Fontes Cardoso: *Title: Web resources for an aspect identification and clustering tool in fine-grained opinion mining.*
University of São Paulo. [certificate](#)

Awards received

2013: **Best Undergraduate Student Award**, Federal University of Minas Gerais. [pdf](#)
2013: **Best Undergraduate Project Award**, Federal University of Minas Gerais. [pdf](#)
2012: **Best Undergraduate Student Award**, Federal University of Minas Gerais. [pdf](#)

Short Courses

2019: Introduction on the Stars - Astrophysics. [certificate](#)

Hackathon, Datathon and Summer Schools

2nd Advanced Language Processing School, Université Grenoble Alpes, France, 2022. [pdf](#)
1st Datathon and Hackathon “Antisemitism on Social Media”, Indiana University Bloomington, [NLP Lab](#), United States, 2020. [pdf](#)
10th Lisbon Machine Learning School, Portugal, 2020. [pdf](#)
4th Brazilian Advanced School in Big Data Analysis, University of São Paulo, 2020. [pdf](#)
22th Computer Science Summer School, University of São Paulo, 2019. [pdf](#)
4th Computer Science Summer School, Federal University of Minas Gerais, 2015. [pdf](#)
10th Linguistics Summer School, Federal University of Minas Gerais, 2011. [pdf](#)

Participation in examination committees	<p>2021: Computer Science Graduate Course. University of São Paulo. Vivian Vieira. <i>Aprendendo sobre veracidade de informações: Desenvolvimento e avaliação de curso EAD que aplica método científico na análise de notícias</i>. pdf</p> <p>2021: Computer Science Graduate Course. University of São Paulo. Laudeir José Lopes de Oliveira. <i>Explorando o pensamento computacional com aprendizado de máquina: Elaboração de um material didático para uma oficina introdutória</i>. pdf</p> <p>2021: Computer Science Undergraduate Course. University of São Paulo. Lucas Silva Loureiro. <i>Sistema de Recomendação de Livros</i>. pdf</p> <p>2020: Computer Science Undergraduate Course. University of São Paulo. Luana Balador Belisario. <i>Análise discursiva aplicada à mineração de opinião: classificação de subjetividade para a língua portuguesa</i>. see</p> <p>2020: Computer Science Undergraduate Course. University of São Paulo. Paulo André Pimenta Aragão. <i>Revisão Sistemática da Literatura sobre Software Educativos para Ensino de Engenharia de Software</i>. see</p> <p>2020: Computer Science Undergraduate Course. University of São Paulo. Tarcisio Ladeia de Oliveira. <i>Mapeamento de Ambientes Externos com o Uso de Drones</i>. see</p> <p>2020: Computer Science Undergraduate Course. University of São Paulo. Rafael Farias Pinho. <i>Planejamento de rotas para VANTs com desvio de obstáculos e incertezas</i>. see</p> <p>2019: 27th USP International Symposium on Scientific and Technological Initiation. Member of the examination committee of the undergraduate projects. pdf</p>
Talks as an invited speaker	<p>Natural Language Processing and Data Science, University Center Methodist Izabela Hendrix, 2018. pdf</p> <p>Opinion Mining, University of São Paulo, 2016. pdf</p>
Technical-Scientific Productions	<p>OpCluster: Fine-grained opinion extraction and clustering tool. (tool) (web version)</p> <p>OPCovidBR: Aspect-based sentiment analysis dataset of Covid-19 Tweets. (dataset)</p> <p>AspectPRO: Aspect-based annotated corpus of web consumer reviews. (dataset)</p> <p>HateBR: Large-scale abusive language dataset of Brazilian Instagram comments. (dataset)</p> <p>Deceiver: Multilingual discourse-annotated corpus of fake and truth news. (dataset)</p> <p>PRO: Taxonomies for aspect-based sentiment analysis in Portuguese (lexicon)</p> <p>MOL: Multilingual offensive lexicon (lexicon)</p>
Recommendation Letter	<p>Prof. Dr. Carlos Ramisch. <i>Laboratoire d'Informatique et Systèmes – LIS – UMR CNRS 7020 – Aix Marseille Université</i>. letter</p> <p>Dra. Norah Abokhodair. <i>Microsoft Research</i>. letter</p> <p>Prof. Dr. Fabricio Benevenuto. <i>Computer Science Department, Federal University of Minas Gerais</i>. letter</p> <p>Prof. Dr. Thiago A. S. Pardo. <i>Institute of Mathematics and Computer Science, University of São Paulo</i>. letter</p>
Languages	Python, SQL, RDF(s), OWL, XML, JSON, Unix/Bash.