

Francielle Vargas

francielleavargas@usp.br +55 31 999685891

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

Education

PhD, Computer Science and Computational Mathematics

University of São Paulo

August 2019 - current

MSc, Computer Science and Computational Mathematics

University of São Paulo

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

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.** *EMNLP 2022.* [see](#)
2. **Resources and Evaluation Track.** *EMNLP 2022.* [see](#)
3. **NLP Applications Track.** *EMNLP 2022.* [see](#)
4. **Sentiment Analysis, Stylistic Analysis, and Argument Mining Track.** *EMNLP 2022.* [see](#)
5. **Natural Language Generation Track.** *EMNLP 2022.* [see](#)
6. **Computational Social Science and Cultural Analytics Track.** *EMNLP 2022.* [see](#)
7. **3rd Workshop on Computational Approaches to Discourse.** *COLING 2022.* [see](#)
8. **9th Workshop on Argument Mining.** *COLING 2022.* [see](#)
9. **6th Workshop on Online Abuse and Harms.** *NAACL-HLT 2022.* [see](#)
10. **NAACL Student Research Workshop.** *NAACL-HLT 2022.* [see](#)
11. **22th Workshop on Computational Models of Natural Argument.** *COMMA 2022.* [see](#)
12. **1st Workshop on Argumentation & Machine Learning.** *COMMA 2022.* [see](#)

13. **5th International Workshop Challenges and Applications of Automated Extraction of Socio-political Events from Text.** *EMNLP 2022*. [see](#)
14. **4th International Workshop Challenges and Applications of Automated Extraction of Socio-political Events from Text.** *ACL-IJCNLP 2021*. [see](#)

Organizing Committee

1. **Data(set) Co-chair.** *ICWSM 2023*. [see](#)
2. **Committee Member.** 5th International Workshop Challenges and Applications of Automated Extraction of Socio-political Events from Text. (*EMNLP 2022*). [see](#)
3. **Accessibility Chair.** *ICWSM 2022*. [see](#)
4. **Diversity, Equity, and Inclusion Chair.** *ICWSM 2021*. [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). Contextual-aware and expert resources for Brazilian Portuguese hate speech detection.. *Natural Language Engineering Journal*, pp. 1-25. [submitted](#)

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., Anchiêta, 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](#)

Previous Positions

Academic Positions

2019/2022: **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.
2018/2018 **Language Engineer.** Amazon via Appen.
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

2021: **Computer Science Graduate Course**. University of São Paulo. Vivian Vieira. *Aprendendo sobre veracidade de informações: Desenvolvimento e avaliação de curso EAD que aplica método científico na análise de notícias.* [pdf](#)
2021: **Computer Science Graduate Course**. University of São Paulo. Laudeir José Lopes de Oliveira. *Explorando o pensamento computacional com aprendizado de máquina: Elaboração de um material didático para uma oficina introdutória.* [pdf](#)
2021: **Computer Science Undergraduate Course**. University of São Paulo. Lucas Silva Loureiro. *Sistema de Recomendação de Livros.* [pdf](#)
2020: **Computer Science Undergraduate Course**. University of São Paulo. Luana Balador Belisario. *Análise discursiva aplicada à mineração de opinião: classificação de subjetividade para a língua portuguesa.* [see](#)
2020: **Computer Science Undergraduate Course**. University of São Paulo. Paulo André Pimenta Aragão. *Revisão Sistemática da Literatura sobre Software Educativos para Ensino de Engenharia de Software.* [see](#)
2020: **Computer Science Undergraduate Course**. University of São Paulo. Tarcisio Ladeia de Oliveira. *Mapeamento de Ambientes Externos com o Uso de Drones.* [see](#)
2020: **Computer Science Undergraduate Course**. University of São Paulo. Rafael Farias

Pinho. *Planejamento de rotas para VANTs com desvio de obstáculos e incertezas*. [see](#)
 2019: **27th USP International Symposium on Scientific and Technological Initiation**. *Member of the examination committee of the undergraduate projects*. [pdf](#)

Talks as an invited speaker **Natural Language Processing and Data Science**, University Center Methodist Izabela Hendrix, 2018. [pdf](#)
Opinion Mining, University of Sao Paulo, 2016. [pdf](#)

Technical-Scientific Productions **OpCluster**: Fine-grained opinion extraction and clustering tool. ([tool](#)) ([web version](#))
OPCovidBR: Aspect-based sentiment analysis dataset of Covid-19 Tweets. ([dataset](#))
AspectPRO: Aspect-based annotated corpus of web consumer reviews. ([dataset](#))
HateBR: Large-scale abusive language dataset of Brazilian Instagram comments. ([dataset](#))
Deceiver: Multilingual discourse-annotated corpus of fake and truth news. ([dataset](#))
PRO: Taxonomies for aspect-based sentiment analysis in Portuguese ([lexicon](#))
MOL: Multilingual offensive lexicon ([lexicon](#))

Recommendation Letter **Prof. Dr. Carlos Ramisch**. *Laboratoire d'Informatique et Systèmes – LIS – UMR CNRS 7020 – Aix Marseille Université*. [letter](#)
Dra. Norah Abokhodair. *Microsoft Research*. [letter](#)
Prof. Dr. Fabricio Benevenuto. *Computer Science Department, Federal University of Minas Gerais*. [letter](#)
Prof. Dr. Thiago A. S. Pardo. *Institute of Mathematics and Computer Science, University of São Paulo*. [letter](#)

Languages Python, SQL, RDF(s), OWL, XML, JSON, Unix/Bash.
