

## Francielle Vargas

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### Education

*PhD, Computer Science and Computational Mathematics*

University of São Paulo

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

Co-Advisor: [Fabrício Benevenuto](#)

August 2019 - December 2023

*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

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### 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

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### Organizing and Program Committee

#### Program Committee

1. 3rd Workshop on Computational Approaches to Discourse. In *29th International Conference on Computational Linguistics (COLING 2022)*. [see](#)
2. 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)*. [to appear](#)
3. 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](#)
4. 22th Workshop on Computational Models of Natural Argument . In *9th International Conference on Computational Models of Argument (COMMA 2022)*. [to appear](#)
5. 1st Workshop on Argumentation & Machine Learning. In *9th International Conference on Computational Models of Argument (COMMA 2022)*. [see](#)
6. 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](#)

7. 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.**, Benevenuto, F., Pardo, T.A.S (2022). A multilingual discourse-tagging guideline using rhetorical structure theory. *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. 1-10. [accepted/to appear](#)

**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. 1-10. [accepted/to appear](#)

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](#)

Cambráia, C. N., **Vargas, F. A.**, Tavares, P. C., Santos, T. N. (2014) A arquitetura da repressão: as narrativas nos inquéritos policiais/militares. In *Anais do Encontro do grupo de estudos e trabalho em história e linguagem: política das narrativas*, III, pages 83-103, Belo Horizonte. Fafich/UFMG. [pdf](#)

## Technical reports

**Vargas, F.A.** and Pardo, T.A.S. (2017). Empirical study on clustering and hierarchical organization of aspects for opinion mining. *Book of Technical Reports of the Institute of Mathematical and Computer Sciences*, University of São Paulo, Brazil. no.418. 48p. [pdf](#)

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## Previous Positions

2019/2023: **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](#)  
2014/2015: **System Analyst.**  
Unisys Corporation.  
2011/2014: **Undergraduate Research Assistant - Dept. of Linguistics.**  
Federal University of Minas Gerais. [pdf](#)

2009/2010: **System Analyst.**  
Grupo Barcelos.

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**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: 1st International Workshop Automated Extraction of Socio-Political Events from News. 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.[pdf](#)

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**Awards received**

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

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**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](#)

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**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 Belisario. *Análise discursiva aplicada à mineração de opinião: classificação de subjetividade para a língua portuguesa*. [pdf](#)  
2019: **27th USP International Symposium on Scientific and Technological Initiation**. *Member of the examination committee of the undergraduate projects*. [pdf](#)

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**Talks as an invited speaker**

**Natural Language Processing and Data Science** [pdf](#)  
University Center Methodist Izabela Hendrix, 2018.  
**Opinion Mining** [pdf](#)  
University of São Paulo, 2016.  
**Text and Media** [pdf](#)  
Federal University of Minas Gerais, 2012.

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**Technical-Scientific Productions**    **OpCluster-PT**: Fine-grained opinion extraction and clustering tool. ([code](#)) ([web version](#))  
**OPCovidBR**: Aspect-based sentiment analysis dataset of Covid-19 Tweets. ([dataset](#))  
**HateBR**: Large-scale abusive language dataset of Brazilian Instagram comments. ([dataset](#))  
**Deceiver**: Multilingual discourse-annotated corpus of fake and truth news. ([dataset](#))  
**MOL**: Multilingual Offensive Lexicon ([lexicon](#))

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**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](#)

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

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