

## Francielle Vargas

francielleavargas@usp.br +55 31 999685891

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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. 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](#)
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. 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. 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](#)
  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](#)
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## Publications

### Journals

**Vargas, F.A.** Benevenuto, F., Pardo, T.A.S (2022). Discourse structure learning for fake news detection. *Computational Linguistics Journal*, pp. 1-23. [submitted](#)

**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 2022)*, 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 2022)*, 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 2022)*, 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 - Student Research Workshop*, 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 2021)*, 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 2020)*, 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 2018)*, pp. 365-374. Canela, 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 ICWSM'2021*, 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 ICWSM'2020*, pp. 1-6. Held Online. [pdf](#)

**Vargas, F.A.**, Pardo, T.A.S. (2020) Studying dishonest intentions in texts. *Proceedings of the 1st International Workshop on Deceptive AI (ECAI 2020)*. 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 *Proceedings of the 2nd Workshop on Evaluation of Human Language Technologies for Iberian Languages (IberEval)*, pp. 102-112. Murcia, Spain. [pdf](#)

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## Previous Positions

- University of São Paulo, 2021/2021  
Graduate Teaching Assistant - Neural Networks. to appear
  - University of São Paulo, 2020/2020  
Graduate Teaching Assistant - Compilers. [see](#)
  - University of São Paulo, 2019/2023  
Graduate Research Assistant - Dept. of Computer Science. [see](#)
  - University of São Paulo, 2015/17  
Graduate Research Assistant - Dept. of Computer Science. [see](#)
  - Unisys Corporation, 2014/15  
System Analyst
  - Federal University of Minas Gerais, 2013/14  
Undergraduate Research Assistant - Dept. of Linguistics. [see](#)
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## Hackathon, Datathon and Summer Schools

- The Summer Institutes in Computational Social Science, National University of Singapore (NUS), [Centre for Trusted Internet & Community](#), Singapore, 2022. [to appear](#)
- 2nd Advanced Language Processing School, Université Grenoble Alpes, 2022. [certificate](#)
- 1st Datathon and Hackathon competition “Antisemitism on Social Media”, Indiana University Bloomington, [NLP Lab](#), United States, 2020. [certificate](#)
- 10th Lisbon Machine Learning School, Portugal, 2020. [certificate](#)
- 4th Brazilian Advanced School in Big Data Analysis, 2020. [certificate](#)

	22th Computer Science Summer School, University of Sao Paulo, Brazil, 2019. <a href="#">certificate</a>
	4th Computer Science Summer School, Federal University of Minas Gerais, 2015. <a href="#">certificate</a>
	10th Linguistics Summer School, Federal University of Minas Gerais, 2011. <a href="#">certificate</a>
<b>Talks as an invited speaker</b>	<ul style="list-style-type: none"> <li>- Natural Language Processing and Data Science University Center Methodist Izabela Hendrix, 1º Meetup do R-Ladies, Belo Horizonte, Brazil, 2018. <a href="#">presentation</a></li> <li>- Opinion Mining University of Sao Paulo, São Carlos, Brazil, 2016. <a href="#">certificate</a>.</li> <li>- Online Social Networks College of Education, Federal University of Minas Gerais, Belo Horizonte, Brazil, 2014. <a href="#">video</a>.</li> </ul>
<b>Computer Programs</b>	OpCluster-PT : Fine-grained opinion extraction and clustering tool ( <a href="#">code</a> ) ( <a href="#">web version</a> ).
<b>Languages</b>	Python, SQL, RDF(s), OWL, XML, JSON, Unix/Bash.
<b>Recommendation Letter</b>	<ul style="list-style-type: none"> <li>- Prof. Dr. Carlos Ramisch, <i>Laboratoire d'Informatique et Systèmes – LIS – UMR CNRS 7020 – Aix Marseille Université</i>. <a href="#">[letter]</a></li> <li>- Prof. Dr. Thiago A. S. Pardo, <i>Institute of Mathematics and Computer Science, University of São Paulo</i>. <a href="#">[letter]</a></li> </ul>