

Francielle Vargas
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<https://francielleavargas.github.io/>

Education	<p><i>PhD, Computer Science and Computational Mathematics</i> University of São Paulo 2019 - 2024</p> <p><i>MSc, Computer Science and Computational Mathematics</i> University of São Paulo Thesis: Semantic clustering of aspects for opinion mining. see 2015 - 2017</p> <p><i>BA, Linguistics</i> Federal University of Minas Gerais</p> <p><i>BSc, Information Systems</i> Pontifical Catholic University of Minas Gerais</p>
Experience	<p>2024/2024: <i>Google LARA Fellow</i>, Federal University of Minas Gerais (UFMG)</p> <p>2024/2024: <i>Visiting Researcher</i>, University of Southern California (USC)</p> <p>2021/2022: <i>Data Scientist</i>, Cisco Webex</p> <p>2015/2023: <i>Graduate Researcher</i>, University of São Paulo (USP)</p> <p>2014/2015: <i>System Analyst</i>, Unisys</p> <p>2010/2014: <i>Research Assistant</i>, Federal University of Minas Gerais (UFMG)</p> <p>2008/2010: <i>System Analyst</i>, Grupo Barcelos</p>
Data Resources	<p>HateBR: The large-scale abusive language dataset of Brazilian Instagram comments</p> <p>FactNews: The sentence-level annotated dataset to predict factuality and media bias</p> <p>HausaHate: A hate speech dataset of Facebook comments for Hausa language</p> <p>OPCovidBR: The aspect-based sentiment analysis dataset of Covid-19 Tweets</p> <p>AspectPRO: Aspect-based annotated dataset of web consumer reviews</p> <p>PRO: Taxonomies for aspect-based sentiment analysis in Portuguese</p> <p>MOL: Multilingual offensive lexicon</p>
Computer Programs	<p>OPCluster: Automatic extraction and clustering of fine-grained opinions</p> <p>NoHateBrazil: A Brazilian Portuguese text offensiveness analysis system</p> <p>FACTual: Automated fact-checking and news source reliability</p>

HausaHate: An Expert Annotated Corpus for Hausa Hate Speech Detection

Vargas, F., Guimarães, S., Alves, D., Muhammad, H. S., Abdulmumin, I., Ahmad, I. S., Mohamed, D., Pardo, T.A.S., Benevenuto, F.

8th Workshop on Online Abuse and Harms (WOAH@NAACL), pp. 1-6. Mexico City, Mexico. [see](#)

Context-Aware and Expert Data Resources for Brazilian Portuguese Hate Speech Detection

Vargas, F., Carvalho, I., Pardo, T.A.S., Benevenuto, F.

Natural Language Engineering Journal. pp.1-21. [see](#)

Discourse Annotation Guideline for Low-Resource Languages

Vargas, F., Schmeisser-Nieto, W., Rabinovich, Z., Benevenuto, F., Pardo, T.A.S.

Natural Language Engineering Journal. pp.1-33. [see](#)

Extended Multimodal Hate Speech Event Detection During Russia-Ukraine Crisis

Thapa, S., Rauniyar, K., Jafri, F. A., Veeramani, H., Jain, R., Jain, S., Varghas, F., Hürriyetoglu, A., Naseem, U.

7th International Workshop Challenges and Applications of Automated Extraction of Socio-Political Events from Text (EACL). pp.221-228. St. Julians, Malta. [see](#)

2023

Socially Responsible Hate Speech Detection: Can Classifiers Reflect Social Stereotypes?

Vargas, F., Carvalho, I., Hürriyetoglu, A., Pardo, T.A.S., Benevenuto, F.

Recent Advances in Natural Language Processing (RANLP). pp.1-10. Varna, Bulgaria. [see](#)

Predicting Sentence-Level Factuality of News and Bias of Media Outlets

Vargas, F., Jaidka, K., Pardo, T.A.S., Benevenuto, F.

Recent Advances in Natural Language Processing (RANLP). pp.1-10. Varna, Bulgaria. [see](#)

NoHateBrazil: A Brazilian Portuguese Text Offensiveness Analysis System

Vargas, F., Carvalho, I., Schmeisser-Nieto, W., Benevenuto, F., Pardo, T.A.S.

Recent Advances in Natural Language Processing (RANLP). pp.1-7. Varna, Bulgaria. [see](#)

Multimodal Hate Speech Detection

Thapa, S., Jafri, F. A., Hürriyetoglu, A., Varghas, F., Lee, R. K., Naseem, U.

6th International Workshop Challenges and Applications of Automated Extraction of Socio-Political Events from Text (RANLP). pp.1-9. Varna, Bulgaria. [see](#)

2022

Rhetorical Structure Approach for Online Deception Detection: A Survey

Vargas, F., D'Alessandro, J., Rabinovich, Z., Benevenuto, F., Pardo, T.A.S.

13th Conference on Language Resources and Evaluation (LREC). pp.5906-5915. Marseille, France. [see](#)

HateBR: A Large Expert Annotated Corpus of Brazilian Instagram Comments for Abusive Language Detection

Vargas, F., Carvalho, I., Góes, F.R., Pardo, T.A.S., Benevenuto, F.

13th Conference on Language Resources and Evaluation (LREC). pp.7174-7183. Marseille, France. [see](#)

Extended Multilingual Protest News Detection

Hurriyetoglu, A., Mutlu, O., San, F. D., Uca, O., Gurel, A. S., Radford, B., Dai, Y., Hettiarachchi, H., Stoeck, N., Nomoto, T., Slavcheva, M., Vargas, F., Javid, A., Beyhan, F., Yoruk, E.

5th International Workshop Challenges and Applications of Automated Extraction of Socio-Political Events from Text (EMNLP). pp.223–228. Abu Dhabi, Arab Emirates. [see](#)

2021

Contextual-Lexicon Approach for Abusive Language Detection

Vargas, F., Góes, F.R., Carvalho, I., Pardo, T.A.S., Benevenuto, F.

Recent Advances in Natural Language Processing (RANLP). pp.1442-1451. Held Online.[see](#)

Towards Discourse-Aware Models for Multilingual Fake News Detection

Vargas, F., Benevenuto, F., Pardo, T.A.S.

Recent Advances in Natural Language Processing (RANLP). pp.210-218. Held Online. [see](#)

Implicit Opinion Aspect Clues in Portuguese Texts: Analysis and Categorization

Machado, M. T., Pardo, T.A.S., Ruiz, E. E. S., Di Felippo, A., Vargas, F.

15th International Conference on the Computational Processing of Portuguese (PROPOR). pp.68-78. Fortaleza, Brazil. [see](#)

2020 and before

Linguistic Rules for Fine-Grained Opinion Extraction

Vargas, F., Pardo, T.A.S.

5th International Workshop on Social Sensing: Special Edition on Narrative Analysis on Social Media (SocialSens @ ICWSM 2020). pp.1-6. Held Online. [see](#)

Identifying Fine-Grained Opinion and Classifying Polarity on Coronavirus Pandemic

Vargas, F., Santos, R.S.S., F., Rocha, P.R.

9th Brazilian Conference on Intelligent Systems (BRACIS 2020). pp.511-520. Rio Grande, Brazil. [see](#)

Aspect Clustering Methods for Sentiment Analysis

Vargas, F., Pardo, T.A.S.

13th International Conference on the Computational Processing of Portuguese (PROPOR 2018). pp.365-374. Canela, Brazil. [see](#)

The Coreference Annotation of the CSTNews Corpus

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.

2nd Workshop on Evaluation of Human Language Technologies for Iberian Language (IberEval 2 @ SEPLN 2027). pp.102-112. Murcia, Spain. [see](#)

Invited Speaker 2024: [MOLA - Language & Morality Lab](#)
University of Southern California (USC). Los Angeles, California
Title: *Fighting Misinformation and Polarization: Socially Responsible and Explainable Language Technologies for Fact-Checking and Hate Speech Detection.* [see](#)

2024: [Conference cum Conclave on Emerging trends in Journalistic and Media Practices](#)
DG Vaishnav College (DDGDV). Chennai, India
Title: *Predicting Sentence-Level News Source Reliability for Fact-Checking.* [see](#)

2023: [Conference on Harmful Online Communication](#)
Leibniz Institute for the Social Sciences (GESIS), Cologne, Germany
Title: *Countering Harmful Online Communication in Brazil: Predicting Fine-Grained Factuality of News and Offensive Context of Social Media Comment.* [see](#)

Awards & Honors Google Latin America Research Awards (LARA 2024)
NAACL Diversity & Inclusion Award (NAACL 2024)
Outstanding Academic Project and Honorable Mention (UFMG 2013)
Outstanding Academic Project and Honorable Mention (UFMG 2012)

Courses 2019-2019: *Introduction on the Stars - Astrophysics*, University of São Paulo. [see](#)
2016-2016: *The R language with an emphasis on probability*, University of São Paulo. [see](#)
2014-2020: *Software Engineering*, Pontifical Catholic University of Minas Gerais, Brazil. [see](#)

Organizing and Program Committee

Organizing Committee

1. Data(set) Co-chair. *ICWSM 2023.* [see](#)
2. Accessibility Chair. *ICWSM 2022.* [see](#)
3. Diversity, Equity, and Inclusion Chair. *ICWSM 2021.* [see](#)
4. Steering Committee. 6th CASE@*RANLP 2023.* [see](#)
5. Steering Committee. 5th CASE@*EMNLP 2022.* [see](#)

Program Committee

- *ACL* ([2023](#))
 - *EMNLP* ([2024](#))([2023](#))([2022](#))
 - *LREC* ([2024](#))
 - *NAACL* ([2024](#)) ([2022](#))
 - *ICWSM* ([2025](#))([2024](#))([2023](#))
 - *CIKM* ([2024](#))([2023](#))
 - *HICSS*([2023](#))
 - *WOAH* ([NAACL 2024](#))([ACL 2023](#)) ([NAACL-HLT 2022](#))
 - *FEVER* ([EACL 2023](#))
 - *SoCal NLP* ([2022](#))
 - *CODI* ([EACL 2024](#))([ACL 2023](#)) ([COLING 2022](#))
 - *ARGMINING-CMNA* ([ICLP 2023](#)) ([COLING 2022](#)) ([COMMA 2022](#))
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Conference Participation	NAACL 2024. see RANLP 2023. see ACL 2023. see LREC 2022. see RANLP 2021. see ICWSM 2021. see ACL 2020. see EMNLP 2020. see LREC 2020. see BRACIS 2020. see
Summer School	2024-2024: 2nd Mexican NLP Summer School, NAACL 2024, Mexican. to appear 2023-2023: 2nd Summer School on Deep Learning in NLP, RANLP 2024, Bulgaria. see 2022-2022: 2nd Advanced NLP School, Université Grenoble Alpes, France. see 2021-2021: 4th Advanced School in Big Data Analysis, University of São Paulo, Brazil. see 2020-2020: 10th Lisbon Machine Learning School, INESC, Portugal. see 2015-2015: 4th Summer School in Computer Science, DCC-UFMG, Brazil. see
Adviser	CS Undergraduate: Lucas Sobral Fontes Cardoso, University of São Paulo, 2020. Thesis: <i>Web resources for an aspect identification and clustering tool in fine-grained opinion mining.</i> see
Recommendation Letters	Prof. Dr. Fabricio Benevenuto. <i>DCC-UFMG.</i> letter Dra. Norah Abokhodair. <i>Microsoft Research.</i> letter Prof. Dra. Roseli Romero. <i>ICMC-USP.</i> letter Prof. Dr. Carlos Ramisch. <i>LIS-CNRS-Aix Marseille Université.</i> letter
Coding	Python, NLTK, spaCy, Gensim, Keras, PyTorch, SQL, RDF(s), OWL, XML, JSON, Unix.