Francielle Vargas

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https://franciellevargas.github.io/

Education

PhD, Computer Science and Computational Mathematics
University of São Paulo
2019 - 2024

MSc, Computer Science and Computational Mathematics
University of São Paulo
Thesis: Semantic Clustering of Aspects for Opinion Mining see
2015 - 2017

BA, Linguistics
Federal University of Minas Gerais

BSc, Information Systems
Pontifical Catholic University of Minas Gerais

Keynote Speaker

Leibniz Institute for the Social Sciences (GESIS), Cologne, Germany
Conference on Harmful Online Communication (CHOC2023), 2023.

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*
  Computational Social Science and Cultural Analytics Track (2023)
  Discourse and Pragmatics Track (2023)
- *EMNLP*
  Computational Social Science and Cultural Analytics Track (2022) (2023)
  Discourse and Pragmatics Track (2022) (2023)
- *LREC*
  Offensive and Harmful Language Detection and Analysis Track (2024)
  Discourse and Pragmatics Track (2024)
- *NAACL*
  Computational Social Science and Cultural Analytics Track(2024)
  Discourse and Pragmatics Track (2024)
  NAACL Student Research Workshop (2022) (2024)
- *ICWSM*
  Dataset and Demo Track (2023)

- *CIKM*
  Dataset and Demo Track (2023)
- *HICSS*
  Digital and Social Media Track (2023)
- *WOAH*
  Workshop on Online Abuse and Harms (ACL 2023) (NAACL-HLT 2022)
- *FEVER*
  6th Fact Extraction and VERification (EACL 2023)
- *CODI*
  Workshop on Computational Approaches to Discourse (EACL 2024)(ACL 2023)
  (COLING 2022)
- *ARGMINING-CMNA*
  Workshop on Argument Mining and Workshop on Computational Models of
  Natural Argument (ICLP 2023) (COLING 2022) (COMMA 2022)
- *SoCal NLP*
  5th Southern California Natural Language Processing Symposium (2022)

**Awards
& Honors**

2024: *Latin America Research Awards (LARA)*, Google
2013: *Outstanding Academic Achievement*, UFMG.
2012: *Outstanding Academic Achievement*, UFMG.

Publications

2024

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 (NAACL), pp. 1-6. Mexico City, Mexico.
accepted

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. accepted

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. accepted

Extended Multimodal Hate Speech Event Detection During Russia-Ukraine Crisis
Thapa, S, Rauniyar, K., Jafri, F. A., Veeramani, H., Jain, R., Jain, S., Vargas, F., Hürriyetoğlu, 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., Hürriyetoğlu, 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., Jafr, F. A., Hürriyetoğlu, A., Vargas, 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

Studying Dishonest Intentions in Brazilian Portuguese Texts
Vargas, F., Pardo, T.A.S.
Deceptive AI. Springer, vol 1296. pp.166–178. see

Extended Multilingual Protest News Detection
Hurriyetoglu, A., Mutlu, O., San, F. D., Uca, O., Gurel, A. S., Radford, B., Dai, Y., Hettiarachchi, H., Stoehr, 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

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 (ICWSM). 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). pp.511-520. Rio Grande, Brazil. see

2019 and before

Aspect Clustering Methods for Sentiment Analysis
Vargas, F., Pardo, T.A.S.
13th International Conference on the Computational Processing of Portuguese (PROPOR). 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 (SEPLN). pp.102-112. Murcia, Spain. see

Brazilian Students Connected with Social Media and High Schools
Sales, S., Ferreira, A., Vargas, F.
Acta Científica XXIX Congreso de la Asociación Latinoamericana de Sociología (ALAS). pp.1-15. Santiago de Chile, Chile. see

Book Published / Organized	**Por que amo Llansol?** *(Why are I love Llansol?).* pdf Bittencourt, A., Costa, F. A., Vargas, F. A. Viva Voz, FALE/UFMG: Belo Horizonte: 34p. ISBN 978-85-7758-227-3.

Conference Participation	NAACL 2024. to appear 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

Experience

Research experience
2024/2024: Researcher Visiting, University of Southern California (USC)
2015/2023: Graduate Researcher, University of São Paulo (USP)
2011/2014: Undergraduate Researcher, Federal University of Minas Gerais (UFMG)

Teaching experience
SCC5809: Neural Networks and Deep Learning University of São Paulo, 2021. see
SCC0605: Theory of Computation and Compilers, University of São Paulo, 2020. see
SCC0227: Computation Topics Seminars, University of São Paulo, 2016. see

Industry experience
2021/2023: Doctoral Researcher, Sinch
2021/2022: Data Scientist, Cisco Webex
2014/2015: System Analyst, Unisys

Adviser

CS Undergraduate: Lucas Sobral Fontes Cardoso, University of São Paulo, 2020.
Thesis: *Web resources for an aspect identification and clustering tool in fine-grained opinion mining.* see

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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

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Courses

2019-2019: Introduction on the Stars - Astrophysics, University of São Paulo, Brazil. see
2014-2020: Software Engineering, Pontifical Catholic University of Minas Gerais, Brazil. see

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Computer Programs

OPCluster: Automatic extraction and clustering of fine-grained opinions.
NoHateBrazil: A Brazilian Portuguese text offensiveness analysis system.
FACTual: Automated fact-checking and news credibility.

Data Resources

FactNews: Sentence-level annotated dataset to predict factuality and media bias.
HateBR: Large-scale abusive language dataset of Brazilian Instagram comments.
HausaHate: A hate speech dataset of Facebook comments for the Hausa language.
OPCovidBR: Aspect-based sentiment analysis dataset of Covid-19 Tweets.
AspectPRO: Aspect-based annotated dataset of web consumer reviews.
Deceiver: Multilingual discourse-annotated dataset of fake and true news.
PRO: Taxonomies for aspect-based sentiment analysis in Portuguese.
MOL: Multilingual offensive lexicon.

Recommendation Letters	**Prof. Dr. Fabricio Benevenuto.** *DCC-UFMG.* letter
	Dra. Norah Abokhodair. *Microsoft Research.* letter
	Prof. Dra. Roseli Romero. *ICMC-USP.* letter
	Prof. Dr. Carlos Ramisch. *LIS–CNRS–Aix Marseille Université.* letter

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