

CURRICULUM VITAE



Tiago Timponi Torrent

Professor at Universidade Federal de Juiz de Fora (UFJF)

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FORMAL EDUCATION

Ph.D. in Linguistics (Oct. 2009)

Universidade Federal do Rio de Janeiro, UFRJ, Rio de Janeiro, Brazil with visiting researcher period at the University of California, Berkeley

Master in Linguistics (Apr. 2005)

Universidade Federal de Juiz de Fora, UFJF, Juiz de Fora, Brazil

Bachelor in Languages (Portuguese and Latin) (Mar. 2003)

Universidade Federal de Juiz de Fora, UFJF, Juiz de Fora, Brazil

PROFESSIONAL POSITIONS

Universidade Federal de Juiz de Fora (UFJF) (Jun. 2010 – present)

Professor, Portuguese Language and Linguistics Department

Göteborgs Universitet (GU) (Aug. 2022 – Jan. 2023)

Guest Professor, Department of Swedish, Multilingualism and Language Technology

Universidade Salgado de Oliveira (Aug. 2003 – Jun. 2010)

Assistant Professor, Languages Department

COURSES TAUGHT AT UFJF

Graduate Division Courses: Syntax; Semantics; Cognitive Linguistics; Construction Grammar; Computational Linguistics; Semantic Representation; History of Language Sciences

Undergraduate Division Courses: Linguistics 101; Cognitive Linguistics; Historical Linguistics; Computational Linguistics; Natural Language Annotation

ACADEMIC SUPERVISIONS

Post-Doc Supervisions: 3 concluded, 1 ongoing

Doctorate Supervisions: 8 concluded, 3 ongoing

Masters Supervisions: 9 concluded, 2 ongoing

BA Supervisions: 32 concluded, 7 ongoing

Google Summer of Code Supervisions: 8 concluded

MANAGEMENT STAFF POSITIONS AT UFJF

Head of the FrameNet Brasil Computational Linguistics Laboratory (Jan. 2013 – present)

Dean of the Graduate Program in Linguistics (Aug. 2017 – present)

Coordinator General of International Relations (Sep. 2014 – Mar. 2016)

RESEARCH INTERESTS

Frame Semantics; Construction Grammar; Natural Language Understanding and Generation; Multimodality

AWARDS

ABRALIN Prize for Technological and Innovative Research on Linguistics (Sep. 2021)

Brazilian Linguistics Association

CURRENT RESEARCH & DEVELOPMENT PROJECTS

ReINVenTA - Research and Innovation Network for Visual and Textual Analysis of Multimodal Objects

Research and development multicentric project developing a dataset and AI model for computational processing of multimodal communication

Funding: CNPq | U\$ 150,000.00, FAPEMIG | U\$ 200,000.00

Reframing Language Models: towards a multilingual, multimodal and multicentric FrameNet

Research productivity grant

Funding: CNPq | U\$ 8,000.00

Global FrameNet – <http://globalframenet.org>

Multilateral collaboration in research and shared task development

PAST RESEARCH & DEVELOPMENT PROJECTS

Comparing Languages with Frames and Constructions: Multilingual Resources and Machine Translation

Bilateral Brazil-Germany collaboration in research and graduate education

Funding: CAPES/DAAD | U\$ 145,000.00

Frames and Constructions in Contrast

Bilateral Brazil-Sweden collaboration in research and graduate education

Funding: CAPES/STINT | U\$ 117,000.00

Lutma: a Frame Maker Tool

Innovative development project for building a app for collaborative FrameNet expansion

Funding: Alexander von Humboldt Foundation | U\$ 20,000.00

SELECTED PUBLICATION

Books

TORRENT, T. T.; HOFFMAN, T.; ALMEIDA, A. L.; TURNER, M. (forthcoming). Co-Pilots for Linguists: AI, Constructions and Frames. Cambridge Elements Series in Construction Grammar. Cambridge: Cambridge University Press.

Articles in peer-reviewed journals

CZULO, O.; ZIEM, A.; WILLICH, A.; TORRENT, T. T. (forthcoming). A multilingual approach to the interaction between frames and constructions: towards a joint framework and methodology. *Constructions and Frames*.

TORRENT, T. T.; MATOS, E. E. S.; BELCAVELLO, F.; VIRIDIANO, M.; GAMONAL, M. A.; COSTA, A. D.; MARIM, M. C. (2022). [Representing Context in FrameNet: A Multi-Dimensional, Multimodal Approach](#). *Frontiers in Psychology*, v. 13, article 838441.

BÓBÓ, M. L. D. R.; CAMPOS, F.; STROELE, V.; DAVID, J. M. N.; BRAGA, R.; TORRENT, T. T. (2022). [Using Sentiment Analysis to Identify Student Emotional State to Avoid Dropout in E-Learning](#). *International Journal Of Distance Education Technologies*, v. 20, p. 1-24.

MARÇÃO, N. D.; TORRENT, T. T. (2021). [Modelagem de construções de pretérito imperfeito](#). [Computational modeling of imperfective past constructions]. *Cadernos de Linguística*, v. 2, n.3, p. e420.

TORRENT, T. T.; MATOS, E. E.; SIGILIANO, N. S. (2020). [Construction grammar across borders](#). *Constructions and Frames*, v. 12, p. 1-7.

BOAS, H. C.; LYNGFELT, B.; TORRENT, T. T. (2019). [Framing constructicography](#). *Lexicographica*, v. 35, p. 41-85.

SIGILIANO, N. S.; TORRENT, T. T. (2019). [FrameNet annotation as a means to identify genre-relevant linguistic structures](#). *ScriptUM*, v. 3, p. 1-20.

DINIZ DA COSTA, A.; ALMEIDA, V.; LAGE, L.; BARBOSA, G.; MARÇÃO, N.; PAIVA, V.; MATOS, E.; TORRENT, T. T. (2018). [Representação computacional das construções de sujeito-predicado do português do Brasil](#). [Computational representation of Brazilian Portuguese subject-predicate constructions]. *Linguística*, v. 14(1), p. 149-178.

TORRENT, T. T.; LAGE, L. M.; TAVARES, T. S.; SILVA, A. B. L. (2017). [Relações de Herança entre Construções e entre Frames: desafios da extensão do modelo construcionista para o domínio computacional no âmbito da FrameNet Brasil](#). [Inheritance relations between constructions and frames: challenges in extending the constructionist model to the computational domain within FrameNet Brasil]. *DELTA*, v. 33(1), p. 45-77.

GAMONAL, M.; TORRENT, T. T. (2016). [The linguistic-computational modeling of metonymy in the FrameNet Brasil lexical database: a case study](#). *Linguística*, v. 12(1), p. 82-94.

GAMONAL, M.; TORRENT, T. T. (2015). [Diretrizes para a criação de um recurso lexical multilíngue a partir da semântica de frames: a experiência turística em foco](#). [Guidelines for creating a multilingual lexical resource based on frame semantics: the tourist experience in focus]. *Domínios de Lingu@gem*, v. 9, p. 56-75.

TORRENT, T. T. ; LAGE, L. M. ; SAMPAIO, T. F. ; TAVARES, T. S. ; MATOS, E. E. (2014). [Revisiting border conflicts between FrameNet and Construction Grammar: Annotation policies for the Brazilian Portuguese Constructicon](#). *Constructions and Frames*, v. 6, p. 34-51.

TORRENT, T. T. ; SALOMÃO, M. M. M. ; MATOS, E. E. ; GAMONAL, M. A. ; GONCALVES, J. ; SOUZA, B. C. P. ; GOMES, D. S. ; PERON, S. R. (2014). [Multilingual lexicographic annotation for domain-specific electronic dictionaries: The Copa 2014 FrameNet Brasil project](#). *Constructions and Frames*, v. 6, p. 73-91.

GAMONAL, M. A.; TORRENT, T. T. (2014). [Frames como interlíngua na estruturação de dicionários eletrônicos multilíngues de domínios especializados](#). [Frames as interlingua for structuring domain-specific multilingual electronic dictionaries]. *Revista da ANPOLL*, v. 1, p. 247-261.

SALOMÃO, M. M. M.; TORRENT, T. T.; SAMPAIO, T. F. (2013). [A Linguística Cognitiva encontra a Linguística Computacional: Notícias do Projeto FrameNet Brasil](#). [Cognitive Linguistics meets Computational Linguistics: news from the FrameNet Brasil project]. *Cadernos de Estudos Linguísticos (UNICAMP)*, v. 55, p. 7-34.

TORRENT, T. T.; ELLSWORTH, M. J. (2013). [Behind the Labels: Criteria for Defining Analytical Categories in FrameNet Brasil](#). *Veredas (UFJF. Online)*, v. 17, p. 44-65.

TORRENT, T. T. (2011). [The Construction Network Reconfiguration Hypothesis](#). *Letras & Letras*, v. 27, n. 1, p. 143-161.

REIS, A. R. G.; TORRENT, T. T. (2011). [O Programa Gestar II: Características e Circunstâncias Locais](#). [The Gestar II Program: Characteristics and Local Circumstances]. *Instrumento*, v. 13, n.2, p. 145-152.

TORRENT, T. T. (2009). [A Hipótese da Dupla Origem para a Construção de Dativo com Infinitivo: primeiras incursões pelo Português Medieval](#). [The Double-Origin Hypothesis for the Dative with Infinitive Construction: first incursions through Medieval Portuguese]. Revista da ABRALIN, v. 7, p. 65-92.

TORRENT, T. T. (2008). [A construção de Dativo com Infinitivo: uma abordagem sociocognitivista e diacrônica](#). [The Dative with Infinitive construction: a sociocognitive, diachronic approach]. Veredas, v.12, n.1, p. 95-111.

TORRENT, T. T. (2007). [A Gramaticalização das Construções Modalizadoras Herdeiras do Dativo com Infinitivo](#). [The Grammaticalization of Modal Constructions Inheriting the Dative with Infinitive Construction]. Domínios de Língua@Gem, v. 1, n.2, p. 1-22

Book chapters

DÁNNELS, D.; TORRENT, T. T.; SIGILIANO, N. S.; DOBNIK, S. (2022). [Beyond Strings of Characters: Resources meet NLP – Again](#). In: VOLODINA, E.; DÁNNELLS, D.; BERDICEVSKIS, A.; FORSBERG, M.; VIRK, S. (Org.). Live and Learn: Festschrift in honor of Lars Borin. Gothenburg: Institutionen för svenska, flerspråkighet och språkteknologi, Göteborgs Universitet.

LYNGFELT, B.; TORRENT, T. T.; BÄCKSTRÖM, L.; MATOS, E. E. (2022). [Comparative Concepts as a Resource for Multilingual Constructicography](#). In: BLESENIEUS, K. (Org.). Valency and constructions. Gothenburg: Meijerbergs institut.

PAIVA, V. M. R. L.; TORRENT, T. T. (2020). [Classificação de atrações turísticas através dos frames: uma análise semântica de comentários de usuários de plataformas colaborativas](#). [Classifying tourist attractions using frames: a semantic analysis of user's comments at online platforms]. In: DIAS, N. B.; ABRAÇADO, J. (Orgs.). Estudos sobre o Português em Uso. Uberlândia: Pangeia.

TORRENT, T. T.; MATOS, E.; LAGE, L.; LAVIOLA, A.; TAVARES, T.; ALMEIDA, V. G.; SIGILIANO, N. (2018). [Towards continuity between the lexicon and the constructicon in FrameNet Brasil](#). In: LYNGFELT, B.; BORIN, L.; OHARA, K. H.; TORRENT, T. T. (Orgs.). Constructional Approaches to Language. Amsterdam: John Benjamins Publishing Company.

LYNGFELT, B.; TORRENT, T. T.; LAVIOLA, A.; BÄCKSTRÖM, L.; HANNESDÓTTIR, A. H.; MATOS, E. (2018). [Aligning constructicons across languages](#). In: LYNGFELT, B.; BORIN, L.; OHARA, K. H.; TORRENT, T. T. (Orgs.). Constructional Approaches to Language. Amsterdam: John Benjamins Publishing Company.

PERON-CORRÊA, S. R.; DINIZ DA COSTA, A.; TAVARES, T. S.; TORRENT, T. T. (2018). [Contributions of Frame Semantics and Construction Grammar in the Processes of Machine Translation](#). In: REY, P. V. C.; REY, A. C.; GONZÁLEZ, P. C. (Orgs.). Nuevas tendencias en traducción: Fraseología, Interpretación, TAV y sus didácticas.[New tendencies in translation: Phraseology, Interpretation, MT and their pedagogies]. Berlin: Peter Lang, v. 128.

PERON-CORRÊA, S.; DINIZ, A.; LARA, M.; MATOS, E.; TORRENT, T. T. (2016). [FrameNet-Based Automatic Suggestion of Translation Equivalents](#). In: SILVA, J.; RIBEIRO, R.; QUARESMA, P.; ADAMI, A.; BRANCO, A. (Orgs.). Lecture Notes in Computer Sciences - Computational Processing of Portuguese. Berlin: Springer.

TORRENT, T. T. (2015). [On the relation between inheritance and change](#). In: BARÐDAL, J.; SMIRNOVA, E.; SOMMERER, L.; GILDEA, S. (Orgs.). Diachronic Construction Grammar. Amsterdam: John Benjamins Publishing Company.

REIS, A. R. G.; TORRENT, T. T. (2012). Ensino de Língua Portuguesa: formação de professores e reflexões sobre a prática em sala de aula. [Portuguese Language Teaching: teacher education and discussions on classroom practice]. In: OLIVEIRA, D. M. (Org.). Formação continuada de professores: contribuições para o debate. Juiz de Fora: UFJF.

TORRENT, T. T.. A Construção de Dativo com Infinitivo. [The Dative with Infinitive Construction]. In: MIRANDA, N. S.; SALOMÃO, M. M. M. (Orgs.). *Construções do Português do Brasil*. Belo Horizonte: UFMG.

Articles in conference proceedings

TORRENT, T. T.; ALMEIDA, A. L.; MATOS, E. E.; BELCAVELLO, F.; VIRIDIANO, M.; GAMONAL, M. A. (2022). [Lutma: a Frame-Making Tool for Collaborative FrameNet Development](#). In: G. ABERCROMBIE; V. BASILE; S. TONELLU; V. RIESER; A. UMA. (Org.). *Proceedings of the LREC 2022 workshop on Perspectivist Approaches to Disagreement in NLP (NLPerspectives)*. 1ed. Paris: European Language Resources Association (ELRA), p. 100-107.

VIRIDIANO, M.; TORRENT, T. T.; CZULO, O.; ALMEIDA, A. L.; MATOS, E. E.; BELCAVELLO, F. (2022). [The Case for Perspective in Multimodal Datasets](#). In: G. ABERCROMBIE; V. BASILE; S. TONELLU; V. RIESER; A. UMA. (Org.). *Proceedings of the LREC 2022 workshop on Perspectivist Approaches to Disagreement in NLP (NLPerspectives)*. 1ed. Paris: European Language Resources Association (ELRA), p. 108-116.

BELCAVELLO, F.; VIRIDIANO, M.; MATOS, E. E.; TORRENT, T. T. (2022). [Charon: a FrameNet Annotation Tool for Multimodal Corpora](#). In: S. PRADHAN; S. KÜBLER. (Org.). *Proceedings of the 16th Linguistic Annotation Workshop (LAW-XVI 2022)*. 1ed. Paris: European Language Resources Association (ELRA), p. 91-96.

DINIZ DA COSTA, A.; MARIM, M. C.; MATOS, E. E.; TORRENT, T. T. (2022). [Domain Adaptation in Neural Machine Translation using a Qualia-Enriched FrameNet](#). In: N. CALZOLARI; F. BÉCHET; P. BLACHE; K. CHOUKRI; C. CIERI; T. DECLERCK; S. GOGGI; H. ISAHARA; B. MAEGAARD; J. MARIANI; H. MAZO; J. ODIJK; S. PIPERIDIS. (Org.). *LREC 2022 Conference Proceedings*. 1ed. Paris: European Language Resources Association (ELRA), p. 1-12.

YONG, Z.; WATSON, P. D.; TORRENT, T. T.; CZULO, O.; BAKER, C. F. (2022). [Frame Shift Prediction](#). In: N. CALZOLARI; F. BÉCHET; P. BLACHE; K. CHOUKRI; C. CIERI; T. DECLERCK; S. GOGGI; H. ISAHARA; B. MAEGAARD; J. MARIANI; H. MAZO; J. ODIJK; S. PIPERIDIS. (Org.). *LREC 2022 Conference Proceedings*. 1ed. Paris: European Language Resources Association (ELRA), p. 976-986.

TROTT, S.; TORRENT, T. T.; CHANG, N.; SCHNEIDER, N. (2020). [\(Re\)constructing meaning in NLP](#). In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*. Online: ACL, p.5170-5184.

CZULO, O.; ZIEM, A.; TORRENT, T. T. (2020). [Beyond lexical semantics: notes on pragmatic frames](#). In: *Proceedings of the LREC International FrameNet Workshop 2020: Towards a Global, Multilingual FrameNet*. Marseille, France: ELRA, p. 1-7.

BELCAVELLO, F.; VIRIDIANO, M.; DINIZ DA COSTA, A.; MATOS, E. E.; TORRENT, T. T. (2020). [Frame-Based Annotation of Multimodal Corpora: Tracking \(A\)Synchronies in Meaning Construction](#). In: *Proceedings of the LREC International FrameNet Workshop 2020: Towards a Global, Multilingual FrameNet*. Marseille, France: ELRA, p. 23-30.

YONG, Z.; TORRENT, T. T. (2020). [Semi-supervised Deep Embedded Clustering with Anomaly Detection for Semantic Frame Induction](#). In: *LREC 2020 Conference Proceedings*. Marseille, France: ELRA, p. 3502-3512.

CZULO, O.; TORRENT, T. T.; MATOS, E. E. S.; DINIZ DA COSTA, A.; KAR, D. (2019). [Designing a Frame-Semantic Machine Translation Evaluation Metric](#). In: *Proceedings of the Second Workshop Human-Informed Translation and Interpreting Technology associated with RANLP 2019*. Shoumen: Incoma Ltd., Shoumen, Bulgaria, 2019. p. 28-35.

DINIZ DA COSTA, A.; GAMONAL, M. A.; PAIVA, V. M. R. L.; MARÇAO, N. D.; PERON-CORRÊA, S.; ALMEIDA, V. G.; MATOS, E. E. S.; TORRENT, T. T. (2018). [FrameNet-Based Modeling of the Domains of Tourism and Sports for](#)

[the Development of a Personal Travel Assistant Application](#). In: Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018), Miyazaki, Japan: ELRA, p. 6-12.

TORRENT, T. T.; ELLSWORTH, M.; BAKER, C. F.; MATOS, E. E. (2018). [The Multilingual FrameNet Shared Annotation Task: a Preliminary Report](#). In: Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018), Miyazaki, Japan: ELRA, p. 62-68.

MATOS, E. E.; TORRENT, T. T.; ALMEIDA, V. G.; SILVA, A. B. L.; LAGE, L. M.; MARCAO, N. D.; TAVARES, T. S. (2017). [Constructional Analysis Using Constrained Spreading Activation in a FrameNet-Based Structured Connectionist Model](#) In: The AAAI 2017 Spring Symposium on Computational Construction Grammar and Natural Language Understanding Technical Report SS-17-02. Palo Alto, CA: AAAI Publications, v.17, p.222-229.

SILVA, A. B. L.; LAGE, L. M.; MARCAO, N. D.; TAVARES, T. S.; ALMEIDA, V. G.; MATOS, E. E.; TORRENT, T. T. (2017). [The Brazilian Portuguese Constructicon: Modeling Constructional Inheritance, Frame Evocation and Constraints in FrameNet Brasil](#). In: The AAAI 2017 Spring Symposium on Computational Construction Grammar and Natural Language Understanding Technical Report SS-17-02. Palo Alto, CA: AAAI Publications, v.17. p.193-196, 2017.

TORRENT, T. T.; SALOMÃO, M. M. M.; CAMPOS, F. C. A.; BRAGA, R. M. M.; MATOS, E. E.; GAMONAL, M. A.; GONCALVES, J.; SOUZA, B. C. P.; GOMES, D. S.; PERON, S. R. (2014). [Copa 2014 FrameNet Brasil: a frame-based trilingual electronic dictionary for the Football World Cup](#). In: Proceedings of COLING 2014, the 25th International Conference on Computational Linguistics. Dublin, Ireland: Dublin City University and Association for Computational Linguistics, p. 10-14.

Patents & Software

TORRENT, T. T.; MATOS, E. E.; GAMONAL, M. A.; BELCAVELLO, F.; VIRIDIANO, M.; ALMEIDA, A. L. (2021). [Lutma: a frame maker tool](#). Software under registration.

TORRENT, T. T.; MATOS, E. E.; DINIZ DA COSTA, A.; MARIM, M. C. (2021). [Scylla: an Automatic Post-Editing System for Terminology Substitution using Frames and Qualia](#). Software Registration Number: BR512021001259-3.

TORRENT, T. T.; MATOS, E. E.; DINIZ DA COSTA, A.; MARIM, M. C. (2020). Computationally implemented method for semantically oriented terminology injection during the pre-processing phase in machine translation pipelines. Patent Registration Number: BR102020022689-4.

TORRENT, T. T.; MATOS, E. E.; DINIZ DA COSTA, A.; MARIM, M. C. (2020). Computationally implemented method for semantically oriented terminology injection during the post-editing phase in machine translation pipelines. Patent Registration Number: BR102020024362-4.

MATOS, E. E.; TORRENT, T. T. (2018). [FrameNet Brasil Web Annotation Tool](#). Software Registration Number: BR512018051603-3

TORRENT, T. T.; SALOMÃO, M. M. M.; CAMPOS, F. C. A.; BRAGA, R. M. M.; MATOS, E. E.; GAMONAL, M. A.; PERON, S. R.; GOMES, D. S.; SOUZA, B. C. P.; GONCALVES, J.; ALCANTARA, A. C. R.; SILVEIRA, C. B.; COSTA, E. R.; MACHADO, F.; COSTA, I. C. S.; CARMO, J. C.; MIGUEL, L. F.; MONTEIRO, M. S.; MARCAO, N. D.; SOUZA, P. L. C. (2015). [Dicionário FrameNet Brasil da Copa do Mundo](#). Software Registration Number: BR512014001030-9

School Textbooks

MIRANDA, C.; REIS, A. R. G.; BARBOSA, L.; TIMPONI, M.; BRANDÃO, M ; TORRENT, T. T. (2010). Mais Português: Língua e Literatura, 1. [More Portuguese: Language and Literature, 1st year of High School]. São Paulo: Escala Educacional.

MIRANDA, C.; REIS, A. R. G.; BARBOSA, L.; TIMPONI, M.; BRANDÃO, M ; TORRENT, T. T. (2010). Mais Português: Língua e Literatura, 2. [More Portuguese: Language and Literature, 2nd year of High School]. São Paulo: Escala Educacional.

MIRANDA, C.; REIS, A. R. G.; BARBOSA, L.; TIMPONI, M.; BRANDÃO, M ; TORRENT, T. T. (2010). Mais Português: Língua e Literatura, 3. [More Portuguese: Language and Literature, 3rd year of High School]. São Paulo: Escala Educacional.

MIRANDA, C.; SIGILIANO, N. S.; TORRENT, T. T. (2009). Português em Cena 6º Ano. [Portuguese on Stage, 6th grade]. São Paulo: Escala Educacional.

MIRANDA, C.; SIGILIANO, N. S.; TORRENT, T. T. (2009). Português em Cena 7º Ano. [Portuguese on Stage, 7th grade]. São Paulo: Escala Educacional.

MIRANDA, C.; SIGILIANO, N. S.; TORRENT, T. T.; REIS, A. R. G. (2009). Português em Cena 8º Ano. [Portuguese on Stage, 8th grade]. São Paulo: Escala Educacional.

MIRANDA, C.; SIGILIANO, N. S.; TORRENT, T. T.; REIS, A. R. G. (2009). Português em Cena 9º Ano. [Portuguese on Stage, 9th grade]. São Paulo: Escala Educacional.