



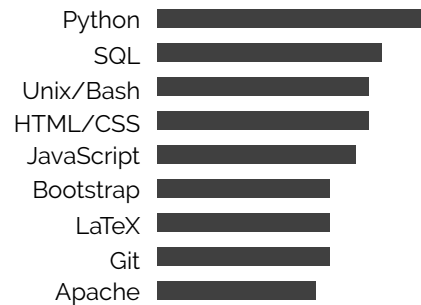
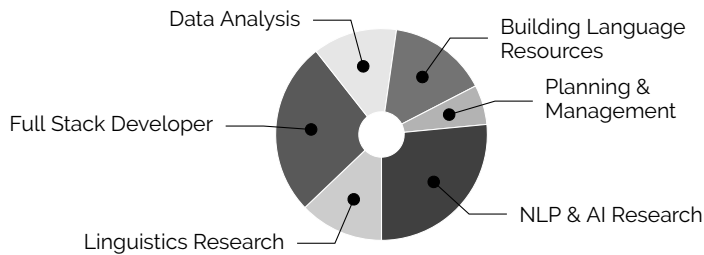


LUIS MORGADO DA COSTA

NLP Research & Solutions 

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EXPERIENCE & COMPETENCIES AT A GLANCE



SELECTED WORK EXPERIENCE

- 2017 – Present** **PhD Candidate & Research Scholar** **Interdisciplinary Graduate School, NTU, Singapore**
Dissertation: Using Rich Models of Language in Grammatical Error Detection;
 - developed language models (English and Mandarin) for error detection and correction;
 - managed two teams of students to produce tagged learner corpora for English (>25k sentences) and Mandarin (>5k sentences), including a treebanked portion;
 - developed a web app (SQLite3/Python/Flask/Bootstrap) to detect errors in student writing; it was integrated in a Communications' course and has helped more than 6,000 students;
- 2014 – 2017** **Project Officer, R. Assistant, R. Associate** **Computational Linguistics Lab, NTU, Singapore**
(3 years 4 months)
Worked on various long-term projects funded by industrial partners and by the SG Ministry of Education applied to Machine Translation, Word Sense Disambiguation and Sentiment Analysis;
 - developed multiple layers of the Open Multilingual Wordnet project; was a main contributor of the port to version 2.0 (completely redesigning the DB structures and moving from SQLite3/Python/CGI/HTML to SQLite3/Python/Flask/Bootstrap);
 - main contributor of IMI, an online semantic annotation environment, used to produce datasets for Machine Translation, Word Sense Disambiguation and Sentiment Analysis;
 - helped build many language resources such as the NTU Multilingual Corpus and various wordnets for multiple languages (e.g. Chinese, Cantonese, Coptic, Indonesian, Kristang);
 - helped writing grants to secure funding; organized local and international conferences; hired and managed multiple part-time student teams;
- 2013 – 2014** **Research Assistant** **NLX-Group, University of Lisbon, Portugal**
(7 months)
Worked on an European Research Council Project (QTLeap) looking to produce high quality Machine Translation using deep language engineering approaches;
 - helped build a Portuguese deep treebank developed for machine translation;
- 2011 – 2013** **Researcher** **Camões I.P. – Ministry of Foreign Affairs, Portugal**
(2 years 5 months) part-time
Worked on the digital dissemination of Portuguese language and culture worldwide;
 - maintained and further developed the Camões I.P. digital library;
 - worked on the design of Camões I.P. first Portuguese language certification program;

EDUCATION

- 2012 – 2014** **Post-Graduate Diploma in Cognitive Sciences** **University of Lisbon, Portugal**
(1 year 6 months)
Interdisciplinary program (Schools of Science, Medicine, Psychology and Letters)
- 2012** **Intensive Chinese Mandarin Course** **Hutong School – Beijing, China**
(3 months)
One-on-One Intensive Program
- 2009 – 2012** **Bachelor's Degree in Asian Studies** **University of Lisbon, Portugal**
(3 years)
Area studies offered by the School of Letters with focus on Mandarin and Japanese

LANGUAGES

- Portuguese
- English
- Mandarin
- Spanish
- French
- Japanese


PERSONAL SKILLS

- Problem-solving
- Creative Solutions
- Communication
- Teamwork
- Independent Learner
- Project Management

MOTIVATORS

- Personal Growth
- Goal Oriented
- Autonomy
- Communication
- Recognition
- Transparency

HOBBIES

- Travel (27/195 countries)
- Language Learning
- Landscape Photography
- Revitalizing Kristang 
- Board Games

PUBLICATIONS (PEER-REVIEWED)

- 2021 P. McCrae, John and Wayne Goodman, Michael and Bond, Francis and Rademaker, Alexandre and Rudnicka, Ewa and **Morgado Da Costa, Luis**. (IN PRINT) The GlobalWordNet Formats: Updates for 2020. *Proceedings of the 11th Global WordNet Conference (GWC 2021)*. Global Wordnet Association. Pretoria, South Africa.
- 2020 **Morgado da Costa, Luis** and Winder, Roger V P and Li, Shu Yun and Liang, Benedict Christopher Lin Tzer and Mackinnon, Joseph and Bond, Francis. Automated Writing Support Using Deep Linguistic Parsers. *Proceedings of the 12th Conference on Language Resources and Evaluation. European Language Resources Association (ELRA)*. Marseille, France.
- 2020 **Morgado da Costa, Luis** and Sio, Joanna Ut-Seong. CALLIG: Computer Assisted Language Learning using Improvisation Games. *Proceedings of the Games and Natural Language Processing Workshop at the 12th Edition of the Language Resources and Evaluation Conference. European Language Resources Association (ELRA)*. Marseille, France.
- 2020 **Morgado da Costa, Luis**. Pinchah Kristang: A Dictionary of Kristang. *Proceedings of the Globalex2020 at the 12th Edition of the Language Resources and Evaluation Conference. European Language Resources Association (ELRA)*. Marseille, France.
- 2020 Bond, Francis and Nomoto, Hiroki and **Morgado da Costa, Luis** and Bond, Arthur. Linking the TUFs Basic Vocabulary to the Open Multilingual Wordnet. *Proceedings of the 12th Conference on Language Resources and Evaluation. European Language Resources Association (ELRA)*. Marseille, France
- 2020 Bond, Francis and **Morgado da Costa, Luis** and Goodman, Michael Wayne and McCrae, John Philip and Lohk, Ahti. Some Issues with Building a Multilingual Wordnet. *Proceedings of the 12th Conference on Language Resources and Evaluation. European Language Resources Association (ELRA)*. Marseille, France.
- 2019 Slaughter, Laura and **Morgado Da Costa, Luis** and Miyagawa, So and Büchler, Marco and Zeldes, Amir and Lundhaug, Hugo and Behlmer, Heike. The Making of Coptic Wordnet. *Proceedings of the 10th Global WordNet Conference (GWC 2019)*. Wroclaw, Poland.
- 2019 Sio, Joanna Ut-Seong and **Morgado Da Costa, Luis**. Building the Cantonese Wordnet. *Proceedings of the 10th Global WordNet Conference (GWC 2019)*. Wroclaw, Poland.
- 2018 Slaughter, Laura and Wang, Wenjie and **Morgado da Costa, Luis** and Bond, Francis. Enhancing the Collaborative Interlingual Index for Digital Humanities: Cross-linguistic Analysis in the Domain of Theology. *Proceedings of the 9th Global WordNet Conference (GWC 2018)*. Singapore.
- 2017 Winder, Roger V. P. and MacKinnon, Joe and Li, Shu Yun and Lin, Benedict and Heah, Carmel and **Morgado da Costa, Luis** and Kuribayashi, Takayuki and Bond, Francis. NTUCLE: Developing a corpus of learner English to provide writing support for engineering students. *Proceedings of the 4th Workshop on NLP Techniques for Educational Applications (NLPTEA 2017)*. Taipei, Taiwan. (IJCNLP 2017 Workshop)
- 2016 **Morgado da Costa, Luis** and Bond, Francis and Xiaoling, He. Syntactic Well-Formedness Diagnosis and Error-Based Coaching in Computer Assisted Language Learning using Machine Translation. *Proceedings of the 3rd Workshop on Natural Language Processing Techniques for Educational Applications (NLPTEA2016)*. Osaka, Japan.
- 2016 **Morgado da Costa, Luis** and Bond, Francis. Wow! What a useful extension! Introducing Non-Referential Concepts to Wordnet. *Proceedings of the 10th edition of the International Conference on Language Resources and Evaluation (LREC 2016)*. Portorož, Slovenia.
- 2016 **Morgado da Costa, Luis** and Bond, Francis and Kratochvil, František. Linking and Disambiguating Swadesh Lists: Expanding the Open Multilingual Wordnet Using Open Language Resources. *Proceedings of GLOBALEX 2016 Lexicographic Resources for Human Language Technology, 10th edition of the International Conference on Language Resources and Evaluation (LREC 2016)*. Portorož, Slovenia.
- 2016 Bond, Francis and Ohkuma, Tomoko and **Morgado Da Costa, Luis** and Miura, Yasuhide and Chen, Rachel and Kuribayashi, Takayuki and Wang, Wenjie. A Multilingual Sentiment Corpus for Chinese, English and Japanese. *Proceedings of Emotion and Sentiment Analysis Workshop, 10th edition of the International Conference on Language Resources and Evaluation (LREC 2016)*. Portorož, Slovenia.
- 2016 **Morgado da Costa, Luis** and Bond, Francis and Gao, Helena. Mapping and Generating Classifiers using an Open Chinese Ontology. *Proceedings of the 8th Global WordNet Conference (GWC 2016)*. Bucharest, Romania.
- 2016 Moeljadi, David and Bond, Francis and **Morgado da Costa, Luis**. Basic copula clauses in Indonesian. *Proceedings of the Joint 2016 Conference on Head-driven Phrase Structure Grammar and Lexical Functional Grammar, Polish Academy of Sciences, Warsaw, Poland*. CSLI Publications. Stanford, CA.
- 2015 Bond, Francis and **Morgado da Costa, Luis** and Le, Tuan Anh. IMI – A Multilingual Semantic Annotation Environment. *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing, System Demonstrations (ACL 2015)*. Beijing, China.
- 2015 **Morgado da Costa, Luis** and Bond, Francis. OMWEdit - The Integrated Open Multilingual Wordnet Editing System. *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing, System Demonstrations (ACL 2015)*. Beijing, China.

CONFERENCE OR INVITED PRESENTATIONS

- 2019 **Morgado Da Costa, Luis** and Bond, Francis. Seeking Meaning Beyond Grammaticality: Towards the Future of Intelligent Language Tutoring Systems. Presented at *The 5th CoHASS Graduate Conference, Nanyang Technological University*. Singapore
- 2019 Sio, Joanna Ut-Seong and **Morgado Da Costa, Luis**. CALLIG (Computer-Assisted Language Learning using Improvisational Games). *AFLiCo 8 - Language, Cognition, and Creativity. 8th International Biennial Conference of the French Association for Cognitive Linguistics (AFLiCo)*. Mulhouse, France.
- 2018 Bond, Francis and **Morgado da Costa, Luis**. The Open Multilingual Wordnet and Teaching Through Tagging. Invited Talk at *Workshop on Ontology and Rich Semantics: Frameworks and Application*. Singapore.
- 2018 **Morgado da Costa, Luis**. Rich Syntactic and Semantic Models in Error Detection and Intelligent Language Tutoring Systems. Invited Talk at *2nd International Conference on Informatics for Development (ICID)*. Yogyakarta, Indonesia.
- 2018 **Morgado da Costa, Luis**. Multilingual Intelligent Tutoring and Error Detection Systems. Invited Talk at *Chongqing Southwest University*. Chongqing, China.

- 2018 **Morgado da Costa, Luis.** TELL@NTU Intelligent Tutoring and Error Detection Systems. Presented at the *Technology Enhanced Learning Workshop, 9th Global WordNet Conference (GWC 2018)*. Singapore.
- 2018 Choi, Hannah and Bond, Francis and **Morgado da Costa, Luis.** Verb Subcategorization in Indonesian. Presented at the *Twenty-Second International Symposium On Malay/Indonesian Linguistics (ISMIL 22)*. Los Angeles, USA.
- 2018 **Morgado da Costa, Luis.** Basic Digital Humanities: Definitions, Methods and Tools. *Sinophone Borderlands Data Collection and Management Workshop*. Olomouc, Czechia.
- 2017 **Morgado da Costa, Luis.** Integrating Machine Translation into Intelligent Computer Assisted Language Learning. *FOSSA-SIA 2017*. Singapore.
- 2016 **Morgado da Costa, Luis.** Extending Wordnet: the never-ending story. Presented at the *Second Workshop/Hackathon for the Wordnet Bahasa*. Nanyang Technological University, Singapore.
- 2016 Kratochvíl, František and **Morgado da Costa, Luis.** Extending lexical resources for Abui, a Papuan language. Presented at *The 2nd Workshop/Hackathon for the Wordnet Bahasa*. Nanyang Technological University, Singapore.
- 2014 **Morgado da Costa, Luis.** Wordnet Extensions. Presented at *The 1st Workshop/Hackathon for the Wordnet Bahasa*. Nanyang Technological University, Singapore.
- 2014 **Morgado da Costa, Luis.** The OMW Interface. Presented at *The 1st Workshop/Hackathon for the Wordnet Bahasa*. Nanyang Technological University, Singapore.
- 2014 **Morgado da Costa, Luis.** NTU Multilingual Corpus and Open Multilingual Wordnet (Poster). Presented at the *ADSC /I2R Winter Workshop on Natural Language Processing*. Singapore.

SERVICE TO THE RESEARCH COMMUNITY

Program / Scientific Committee

- 2021 GWC 2021. The 11th Global WordNet Conference. Program Committee. Pretoria, South Africa.
- 2020 Linguamática. Universidade do Minho & Universidade de Vigo. Scientific Committee. Portugal.
- 2020 SLATE 2020: Symposium on Languages, Applications and Technologies. Program Committee. Barcelos, Portugal.
- 2020 SEMAPRO 2020. The Fourteenth International Conference on Advances in Semantic Processing. Program Committee. Nice, France.
- 2020 LREC 2020. The 12th Conference on Language Resources and Evaluation. Scientific Committee. Marseille, France.
- 2019 GWC 2019. The 10th Global WordNet Conference. Program Committee. Wroclaw, Poland.
- 2019 SLATE 2019: Symposium on Languages, Applications and Technologies. Program Committee. Coimbra, Portugal.
- 2019 SEMAPRO 2019. The Thirteenth International Conference on Advances in Semantic Processing. Technical Program Committee. Porto, Portugal.
- 2019 Digital Access to Textual Cultural Heritage (DATeCH). Program Committee. Brussels, Belgium.
- 2018 SLATE 2018: Symposium on Languages, Applications and Technologies. Program Committee. Guimarães, Portugal.
- 2016 Language, Data and Knowledge (LDK). Program Committee. Galway, Ireland.
- 2016 COLING 2016. The 26th International Conference on Computational Linguistics. Program Committee. Osaka, Japan.
- 2016 KÉKI: First Workshop on Knowledge Extraction and Knowledge Integration. Program Committee. Kobe, Japan.

Local / Organizing Committee

- 2018 GLOBALEX 2018: Lexicography & WordNets. Full day workshop at LREC2018. Organising Committee. Miyazaki, Japan.
- 2018 The 9th Global WordNet Conference (GWC 2018). Local Organising Committee. Singapore.
- 2015 The 11th DELPH-IN Summit. Local Organising Committee. Singapore.
- 2015 The 22nd International Conference on Head-Driven Phrase Structure Grammar. Local Organising Committee. Singapore.
- 2014 The 1st Workshop/Hackathon for the Wordnet Bahasa. Local Organising Committee. Singapore.

PRIZES AND AWARDS

- 2019 Bookprize for Best Presentation at the 5th CoHASS Graduate Conference, Nanyang Technological University.
- 2017 Research Scholarship (4 years), Nanyang Technological University and Ministry of Education, Singapore.
- 2011 Bursary for Student Merit Award, University of Lisbon.

TEACHING EXPERIENCE

TEACHING ASSISTANT / TUTOR	2020 Semantics and Pragmatics (undergraduate)
	2020 Corpus Linguistics (undergraduate/graduate)
	2019 Detecting Meaning with Sherlock Holmes (undergraduate);
	2018 Detecting Meaning with Sherlock Holmes (undergraduate);
	2018 Semantics and Pragmatics (undergraduate)