ALEXANDER M. FRASER - Publications List

Bibliometric data: H-index: 32, i10-index: 79, Citations: 3968; See Google Scholar for details: https://scholar.google.com/citations?user=4ZIZK08AAAAJ

Refereed Journal Publications

- Irina Bigoulaeva, Viktor Hangya, Iryna Gurevych, **Alexander Fraser** (2023). Label modification and bootstrapping for zero-shot cross-lingual hate speech detection. *Language Resources and Evaluation*.
- Hassan Sajjad, Helmut Schmid, **Alexander Fraser**, Hinrich Schütze (2017). Statistical Models for Unsupervised, Semi-supervised and Supervised Transliteration Mining. *Computational Linguistics*, 43(2), pages 349 to 375
- Valentin Deyringer, **Alexander Fraser**, Helmut Schmid, Tsuyoshi Okita (2017). Parallelization of Neural Network Training for NLP with Hogwild! *The Prague Bulletin of Mathematical Linguistics*, No. 109, pages 29 to 38
- Anita Ramm, Riccardo Superbo, Dimitar Shterionov, Tony O'Dowd and Alexander Fraser (2017).
 Integration of a Multilingual Preordering Component into a Commercial SMT Platform. The Prague Bulletin of Mathematical Linguistics, No. 108, pages 61 to 72
- Nadir Durrani, Helmut Schmid, **Alexander Fraser**, Philipp Koehn, Hinrich Schütze (2015). The Operation Sequence Model Combining N-Gram-based and Phrase-based Statistical Machine Translation. *Computational Linguistics*, 41(2), pages 157 to 186
- Alex Tamchyna, Fabienne Braune, **Alexander Fraser**, Marine Carpuat, Hal Daumé III, Chris Quirk (2014). Integrating a Discriminative Classifier into Phrase-based and Hierarchical Decoding. *The Prague Bulletin of Mathematical Linguistics*, No. 101, pages 29 to 41
- Alexander Fraser, Helmut Schmid, Richárd Farkas, Renjing Wang, Hinrich Schütze (2013). Knowledge Sources for Constituent Parsing of German, a Morphologically Rich and Less-Configurational Language. *Computational Linquistics*, 39(1), pages 57 to 85
- Alexander Fraser, Daniel Marcu (2007). Measuring Word Alignment Quality for Statistical Machine Translation. *Computational Linguistics*, 33(3), pages 293 to 303

Book Chapters

• Alexander Fraser, William Wong (2008). The Language Weaver Statistical Machine Translation Software System. In A. Farghaly, editor, *Arabic Computational Linguistics*, CSLI Publications, Chapter 9, pages 257 to 288

Refereed Conference Publications

- Prisca Piccirilli, **Alexander Fraser**, Sabine Schulte im Walde (2024). VOLIMET: A Parallel Corpus of Literal and Metaphorical Verb-Object Pairs for English–German and English–French. *Proceedings of *SEM 2024*, Mexico City, June.
- Marion Weller-Di Marco, **Alexander Fraser** (2024). Analyzing the Understanding of Morphologically Complex Words in Large Language Models. *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*, pages 1009-1020, Torino, Italy, May.

- Viktor Hangya, **Alexander Fraser** (2024). How to Solve Few-Shot Abusive Content Detection Using the Data We Actually Have. *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*, pages 8307-8322, Torino, Italy, May.
- Fabian Simonjetz, Jussi Laasonen, Yunus Cobanoglu, **Alexander Fraser**, Enrique Jiménez (2024). Reconstruction of Cuneiform Literary Texts as Text Matching. *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*, pages 13712-13721, Torino, Italy, May.
- Marion Di Marco, Katharina Hämmerl, and **Alexander Fraser** (2023). A Study on Accessing Linguistic Information in Pre-Trained Language Models by Using Prompts. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 7328–7336, Singapore, December.
- Katharina Hämmerl, Alina Fastowski, Jindřich Libovický, **Alexander Fraser** (2023). Exploring anisotropy and outliers in multilingual language models for cross-lingual semantic sentence similarity. In *Findings of the Association for Computational Linguistics: ACL 2023*, pages 7023-7037, Toronto, Canada, July.
- Katharina Hämmerl, Bjoern Deiseroth, Patrick Schramowski, Jindřich Libovický, Constantin Rothkopf, **Alexander Fraser**, Kristian Kersting (2023). Speaking Multiple Languages Affects the Moral Bias of Language Models. In *Findings of the Association for Computational Linguistics: ACL 2023*, pages 2137-2156, Toronto, Canada, July.
- Yihong Liu, Alexandra Chronopoulou, Hinrich Schütze, **Alexander Fraser** (2023). On the Copying Problem of Unsupervised NMT: A Training Schedule with a Language Discriminator Loss. In *The International Conference on Spoken Language Translation (IWSLT)*, pages 491-502, Toronto, Canada, July.
- Sophie Henning, William Beluch, **Alexander Fraser**, and Annemarie Friedrich (2023). A Survey of Methods for Addressing Class Imbalance in Deep-Learning Based Natural Language Processing. In *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 523–540, Dubrovnik, Croatia, May.
- Alexandra Chronopoulou, Matthew Peters, Alexander Fraser, and Jesse Dodge (2023).
 AdapterSoup: Weight Averaging to Improve Generalization of Pretrained Language Models. In Findings of the Association for Computational Linguistics: EACL 2023, pages 2054–2063, Dubrovnik, Croatia, May.
- Viktor Hangya, Hossain Shaikh Saadi, **Alexander Fraser** (2022). Improving Low-Resource Languages in Pre-Trained Language Models. In *Proceedings of EMNLP*, pages 11993 to 12006, Abu Dhabi, UAE, December.
- Wen Lai, Alexandra Chronopoulou, **Alexander Fraser** (2022). m^4 Adapter: Multilingual Multi-Domain Adaptation for Machine Translation with a Meta-Adapter. In *Findings of EMNLP*, pages 4282 to 4296, Abu Dhabi, UAE, December.
- Wen Lai, Jindřich Libovický, **Alexander Fraser** (2022). Improving Both Domain Robustness and Domain Adaptability in Machine Translation. In *Proceedings of Coling*, pages 5191 to 5204, Gyeongju, Republic of Korea, October.
- Marius Gassen, Benjamin Hättasch, Benjamin Hilprecht, Nadja Geisler, Alexander Fraser, Carsten Binnig (2022). Demonstrating CAT: Synthesizing Data-Aware Conversational Agents for Transactional Databases. In *Proceedings of the 48th International Conference on Very Large* Databases (VLDB) 2022 Demos, pages 3586 to 3589, Sydney, Australia, September.

- Katharina Hämmerl, Jindřich Libovický, **Alexander Fraser** (2022). Combining static and contextualised multilingual embeddings. In *Findings of ACL*, pages 2316 to 2329, Dublin, Ireland, May.
- Jindřich Libovický, **Alexander Fraser** (2022). Why don't people use character-level machine translation? In *Findings of ACL*, pages 2470 to 2485, Dublin, Ireland, May.
- Viktor Hangya, Qianchu Liu, Dario Stojanovski, **Alexander Fraser**, Anna Korhonen (2021). Improving machine translation of rare and unseen word senses. In *Proceedings of the Sixth Conference on Machine Translation (WMT)*, pages 614 to 624, Punta Cana, Dominican Republic, November.
- Denis Peskov, Viktor Hangya, Jordan Boyd-Graber, **Alexander Fraser** (2021). Adapting Entities across Languages and Cultures. In *Findings of EMNLP 2021*, pages 3725 to 3750, November.
- Simon Riess, Matthias Huck, **Alexander Fraser** (2021). A Comparison of Sentence-Weighting Techniques for NMT. In *Proceedings of Machine Translation Summit (MT Summit)*, pages 176 to 187, August.
- Tobias Eder, Viktor Hangya, **Alexander Fraser** (2021). Anchor-based Bilingual Word Embeddings for Low-Resource Languages. In *Proceedings of the 2021 Annual Conference of the Association for Computational Linguistics (ACL)*, pages 227 to 232, August.
- Alexandra Chronopoulou, Dario Stojanovski, **Alexander Fraser** (2021). Improving the Lexical Ability of Pretrained Language Models for Unsupervised Neural Machine Translation. In *Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, pages 173 to 180, June.
- Silvia Severini, Viktor Hangya, **Alexander Fraser**, Hinrich Schütze (2020). Combining Word Embeddings with Bilingual Orthography Embeddings for Bilingual Dictionary Induction. In *Proceedings of the 28th International Conference on Computational Linguistics (COLING)*, pages 6044 to 6055, December.
- Dario Stojanovski, Benno Krojer, Denis Peskov, **Alexander Fraser** (2020). ContraCAT: Contrastive Coreference Analytical Templates for Machine Translation. In *Proceedings of the 28th International Conference on Computational Linguistics (COLING)*, pages 4732 to 4749, December.
- Alexandra Chronopoulou, Dario Stojanovski, **Alexander Fraser** (2020). Reusing a Pretrained Language Model on Languages with Limited Corpora for Unsupervised NMT. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 2703 to 2711, November
- Jindřich Libovický, Alexander Fraser (2020). Towards Reasonably-Sized Character-Level
 Transformer NMT by Finetuning Subword Systems. In Proceedings of the 2020 Conference on
 Empirical Methods in Natural Language Processing (EMNLP), pages 2572 to 2579, November
- Jindřich Libovický, Rudolf Rosa, Alexander Fraser (2020). On the Language Neutrality of Pre-trained Multilingual Representations. In Findings of EMNLP 2020, pages 1663 to 1674, November
- Viktor Hangya, **Alexander Fraser** (2020). Towards Handling Compositionality in Low-Resource Bilingual Word Induction. In *Proceedings of the 14th Conference of the Association for Machine Translation in the Americas (AMTA)*, pages 89 to 101, October
- Marion Weller-Di Marco, **Alexander Fraser** (2020). Modeling Word Formation in English-German Neural Machine Translation. In *Proceedings of the 2020 Annual Conference of the Association for Computational Linguistics (ACL)*, pages 4227 to 4232, July

- Leah Michel, Viktor Hangya, **Alexander Fraser** (2020). Exploring Bilingual Word Embeddings for Hiligaynon, a Low-Resource Language. In *Proceedings of the 12th Edition of the Language Resources and Evaluation Conference (LREC)*, pages 2573 to 2580, May
- Veronika Hintzen, **Alexander Fraser** (2019). To Act Or Not To Act Annotating and Classifying Email Regarding Necessary Action. In *Proceedings of the Conference on Natural Language Processing (KONVENS)*, pages 50 to 58, Erlangen, Germany, October
- Dario Stojanovski, **Alexander Fraser** (2019). Improving Anaphora Resolution in Neural Machine Translation Using Curriculum Learning. In *Proceedings of the Machine Translation Summit 2019*, pages 140 to 150, Dublin, Ireland, August
- Viktor Hangya, **Alexander Fraser** (2019). Unsupervised Parallel Sentence Extraction with Parallel Segment Detection Helps Machine Translation. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 1224 to 1234, Florence, Italy, July
- Matthias Huck, Viktor Hangya, and **Alexander Fraser** (2019). Better OOV Translation with Bilingual Terminology Mining. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics* (ACL), pages 5809 to 5815, Florence, Italy, July
- Dario Stojanovski, **Alexander Fraser** (2018). Coreference and Coherence in Neural Machine Translation: A Study Using Oracle Experiments. In *Proceedings of the Third Conference on Machine Translation: Research Papers*, pages 49 to 60, Brussels, Belgium, October
- Viktor Hangya, Fabienne Braune, **Alexander Fraser**, Hinrich Schütze (2018). Two Methods for Domain Adaptation of Bilingual Tasks: Delightfully Simple and Broadly Applicable. In *Proceedings of the 54th Annual Conference of the Association for Computational Linguistics (ACL)*, pages 810 to 820, Melbourne, Australia, July
- Philipp Dufter, Mengjie Zhao, Martin Schmitt, **Alexander Fraser**, Hinrich Schütze (2018). Embedding Learning Through Multilingual Concept Induction. In *Proceedings of the 54th Annual Conference of the Association for Computational Linguistics (ACL)*, pages 1520 to 1530, Melbourne, Australia, July
- Fabienne Braune, Viktor Hangya, Tobias Eder, **Alexander Fraser** (2018). Evaluating Bilingual Word Embeddings on the Long Tail. In *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, pages 188 to 193, New Orleans, Louisiana, USA, June
- Costanza Conforti, Matthias Huck, and **Alexander Fraser** (2018). Neural Morphological Tagging of Lemma Sequences for Machine Translation. In *Proceedings of the 13th Conference of the Association for Machine Translation in the Americas (AMTA), vol. 1: MT Research Track*, pages 39 to 53, Boston, Massachusetts, USA, March
- Matthias Huck, Simon Riess, **Alexander Fraser** (2017). Target-side Word Segmentation Strategies for Neural Machine Translation. In *Proceedings of the Second ACL Conference on Machine Translation (WMT)*, pages 56 to 67, Copenhagen, Denmark, September
- Aleš Tamchyna, Marion Weller-Di Marco, **Alexander Fraser** (2017). Modeling Target-Side Inflection in Neural Machine Translation. In *Proceedings of the Second ACL Conference on Machine Translation (WMT)*, pages 32 to 42, Copenhagen, Denmark, September
- Leonie Weißweiler, Alexander Fraser (2017). Developing a Stemmer for German Based on a Comparative Analysis of Publicly Available Stemmers. In *Proceedings of the German Society for Computational Linguistics and Language Technology (GSCL)*, Berlin, Germany, September

- Costanza Conforti, Alexander Fraser (2017). Supervised Word Sense Disambiguation for Venetan: a Proof-of-Concept Experiment. In Proceedings of the 30th International Florida Artificial Intelligence Research Society Conference (FLAIRS), Special Track on Natural Language Processing of Ancient and Other Low-Resource Languages, May, Florida, USA
- Matthias Huck, Aleš Tamchyna, Ondřej Bojar, **Alexander Fraser** (2017). Producing Unseen Morphological Variants in Statistical Machine Translation. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 369 to 375, Valencia, Spain, April
- Marion Weller-Di Marco, **Alexander Fraser**, Sabine Schulte im Walde (2017). Addressing Problems across Linguistic Levels in SMT: Combining Approaches to Model Morphology, Syntax and Lexical Choice. In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 625 to 630, Valencia, Spain, April
- Aleš Tamchyna, **Alexander Fraser**, Ondřej Bojar, Marcin Junczys-Dowmunt (2016). Target-side Context for Discriminative Models in Statistical Machine Translation. In *Proceedings of the 54th Annual Conference of the Association for Computational Linguistics (ACL)*, pages 1704 to 1714, Berlin, Germany, August
- Anita Ramm, **Alexander Fraser** (2016). Modeling Verbal Inflection for English to German SMT. In *Proceedings of the First Conference on Machine Translation (WMT)*, pages 21 to 31, Berlin, Germany, August
- Marion Weller-Di Marco, **Alexander Fraser**, Sabine Schulte im Walde (2016). Modeling Complement Types in Phrase-based SMT. In *Proceedings of the First Conference on Machine Translation (WMT)*, pages 43 to 53, Berlin, Germany, August
- Fabienne Braune, **Alexander Fraser**, Hal Daumé III, Aleš Tamchyna (2016). A Framework for Discriminative Rule Selection in Hierarchical Moses. In *Proceedings of the First Conference on Machine Translation (WMT)*, pages 92 to 101, Berlin, Germany, August
- Fabienne Braune, Nina Seemann, **Alexander Fraser** (2015). Rule Selection with Soft Syntactic Features for String-to-Tree Statistical Machine Translation. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 1095 to 1101, Lisbon, Portugal, September
- Thomas Müller, Ryan Cotterell, **Alexander Fraser**, Hinrich Schütze (2015). Joint Lemmatization and Morphological Tagging with Lemming (honorable mention for best short paper). In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 2268 to 2274, Lisbon, Portugal, September
- Martin Wunderlich, **Alexander Fraser**, P.S. Langeslag (2015). God Wat Pæt Ic Eom God An Exploratory Investigation Into Word Sense Disambiguation in Old English. In *Proceedings of the German Society for Computational Linguistics & Language Technology (GSCL)*, pages 39 to 48, Essen, Germany, September
- Ryan Cotterell, Thomas Müller, **Alexander Fraser**, Hinrich Schütze (2015). Labeled Morphological Segmentation with Semi-Markov Models. In *Proceedings of the SIGNLL Conference on Computational Natural Language Learning (CoNLL)*, pages 164 to 174, Beijing, China, July
- Marion Weller, **Alexander Fraser**, Sabine Schulte im Walde (2015). Target-side Generation of Prepositions for SMT. In *Proceedings the 18th Annual Conference of the European Association for Machine Translation (EAMT)*, pages 177 to 184, Antalya, Turkey, May
- Marion Weller, Sabine Schulte im Walde, **Alexander Fraser** (2014). Using Noun Class Information to Model Selectional Preferences for Translating Prepositions in SMT. In *Proceedings of the Eleventh Biennial Conference of the Association for Machine Translation in the Americas (AMTA)*, pages 275 to 287, Vancouver, BC, Canada, October

- Nadir Durrani, Philipp Koehn, Helmut Schmid, **Alexander Fraser** (2014). Investigating the Usefulness of Generalized Word Representations in SMT. In *Proceedings of the 25th Annual Conference on Computational Linquistics (COLING)*, pages 421 to 432, Dublin, Ireland, August
- Marion Weller, **Alexander Fraser**, Ulrich Heid (2014). Combining Bilingual Terminology Mining and Morphological Modeling for Domain Adaptation in SMT. In *Proceedings of the Seventeenth Annual Conference of the European Association for Machine Translation (EAMT)*, pages 11 to 18, Dubrovnik, Croatia, June
- Fabienne Cap, **Alexander Fraser**, Marion Weller, Aoife Cahill (2014). How to Produce Unseen Teddy Bears: Improved Morphological Processing of Compounds in SMT. In *Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 579 to 587, Goteborg, Sweden, April
- Alexander Fraser, Marion Weller, Aoife Cahill, Fabienne Cap (2013). NECTAR: Modeling Inflection and Word-Formation in SMT. In *Proceedings of the International Conference of the German Society for Computational Linguistics and Language Technology (GSCL)*, Nectar Track, 6 pages, Darmstadt, Germany, September
- Nadir Durrani, **Alexander Fraser**, Helmut Schmid, Hieu Hoang, Philipp Koehn (2013). Can Markov Models Over Minimal Translation Units Help Phrase-Based SMT? In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 399 to 405, Sofia, Bulgaria, August
- Marion Weller, **Alexander Fraser**, Sabine Schulte im Walde (2013). Using Subcategorization Knowledge To Improve Case Prediction For Translation To German. In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 593 to 603, Sofia, Bulgaria, August
- Nadir Durrani, **Alexander Fraser**, Helmut Schmid (2013). Model With Minimal Translation Units, But Decode With Phrases. In *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, pages 1 to 11, Atlanta, Georgia, USA, June
- Hassan Sajjad, **Alexander Fraser**, Helmut Schmid (2012). A Statistical Model for Unsupervised and Semi-supervised Transliteration Mining. In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 469 to 477, Jeju Island, Korea, July
- Fabienne Braune, Anita Gojun, **Alexander Fraser** (2012). Long-distance Reordering During Search for Hierarchical Phrase-based SMT. In *Proceedings of the 16th Annual Conference of the European Association for Machine Translation (EAMT)*, pages 177 to 184, Trento, Italy, May
- Alexander Fraser, Marion Weller, Aoife Cahill, Fabienne Cap (2012). Modeling Inflection and Word-Formation in SMT. In *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 664 to 674, Avignon, France, April
- Anita Gojun, Alexander Fraser (2012). Determining the Placement of German Verbs in English-to-German SMT. In *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 726 to 735, Avignon, France, April
- Hassan Sajjad, Nadir Durrani, Helmut Schmid, **Alexander Fraser** (2011). Comparing Two Techniques for Learning Transliteration Models Using a Parallel Corpus. In *Proceedings of The 5th International Joint Conference on Natural Language Processing (IJCNLP)*, pages 129 to 137, Chiang Mai, Thailand, November
- Nadir Durrani, Helmut Schmid, **Alexander Fraser** (2011). A Joint Sequence Translation Model with Integrated Reordering. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 1045 to 1054, Portland, Oregon, USA, June

- Hassan Sajjad, **Alexander Fraser**, Helmut Schmid (2011). An Algorithm for Unsupervised Transliteration Mining with an Application to Word Alignment. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 430 to 439, Portland, Oregon, USA, June
- Fabienne Braune, **Alexander Fraser** (2010). Improved Unsupervised Sentence Alignment for Parallel and Asymmetrical Bilingual Corpora. In *Proceedings of the 23rd International Conference on Computational Linguistics (COLING) Posters*, pages 81 to 89, Beijing, China, August
- Nadir Durrani, Hassan Sajjad, **Alexander Fraser**, Helmut Schmid (2010). Hindi-to-Urdu Machine Translation Through Transliteration. In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 465 to 474, Uppsala, Sweden, July
- Florian Schwarck, Alexander Fraser, Hinrich Schütze (2010). Bitext-Based Resolution of German Subject-Object Ambiguities. In Proceedings of the 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT) Short Paper, Oral Presentation, pages 737 to 740, Los Angeles, California, USA, June
- Alexander Fraser, Renjing Wang, Hinrich Schütze (2009). Rich Bitext Projection Features for Parse Reranking. In *Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 282 to 290, Athens, Greece, March
- Hamidreza Kobdani, **Alexander Fraser**, Hinrich Schütze (2009). Word Alignment by Thresholded Two-Dimensional Normalization. In *Proceedings of MT Summit XII Posters*, pages 260 to 267, Ottawa, Canada, August
- Alexander Fraser, Daniel Marcu (2007). Getting the Structure Right for Word Alignment: LEAF. In Proceedings of the 2007 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL), pages 51 to 60, Prague, Czech Republic, June
- Alexander Fraser, Daniel Marcu (2006). Semi-Supervised Training for Statistical Word Alignment. In *Proceedings of the 21st International Conference on Computational Linguistics and 44th Annual Meeting of the Association for Computational Linguistics (COLING/ACL)*, pages 769 to 776, Sydney, Australia, July
- Dragos Stefan Munteanu, **Alexander Fraser**, Daniel Marcu (2004). Improved Machine Translation Performance via Parallel Sentence Extraction from Comparable Corpora. In *Proceedings of the Human Language Technology and North American Association for Computational Linguistics Conference (HLT/NAACL)*, pages 265 to 272, Boston, Massachusetts, USA, May
- Franz Josef Och, Daniel Gildea, Sanjeev Khudanpur, Anoop Sarkar, Kenji Yamada, Alex Fraser, Shankar Kumar, Libin Shen, David Smith, Katherine Eng, Viren Jain, Zhen Jin, Dragomir Radev (2004). A Smorgasbord of Features for Statistical Machine Translation. In *Proceedings of the Human Language Technology and North American Association for Computational Linguistics Conference (HLT/NAACL)*, pages 161 to 168, Boston, Massachusetts, USA, May
- Jinxi Xu, Alexander Fraser, Ralph Weischedel (2002). Empirical Studies in Strategies for Arabic Retrieval. In *Proceedings of the 25th Annual International Conference on Research and Development in Information Retrieval (SIGIR)*, pages 269 to 274, Tampere, Finland, August

Refereed Conference Presentations

• Yi-Chen Liu, Yuri Pettinicchi, **Alexander Fraser** (2020). Improving SHARE translation verification. In BigSurv20, November

Refereed Conference Demonstrations

- Anita Ramm, Sharid Loáiciga, Annemarie Friedrich and **Alexander Fraser** (2017). Annotating Tense, Mood and Voice for English, French and German. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL)*, demo session, pages 1 to 6, Vancouver, Canada, July
- Alex Fraser, Laurie Gerber, Kevin Knight, Daniel Marcu, Franz Josef Och, William Wong (2004). Language Weaver Arabic-to-English Demo. In *Human Language Technology and North American Association for Computational Linguistics Conference Demonstrations*. Boston, Massachusetts, USA, May

Invited Conference Publication

• Alexander Fraser, Renjing Wang, Hinrich Schütze (2009). A progress report on bitext parsing. In 2nd International Conference on the Future of Information Sciences (InFuture): Digital Resources and Knowledge Sharing, pages 43 to 52, Zagreb, Croatia, November. Invited Paper

Invited Conference Presentation

• Alexander Fraser (2013). Machine Learning in the Statistical Natural Language Processing Group of the University of Stuttgart. In *Joint Third EUCogIII Members Conference and PASCAL2 Review Meeting*, Palma de Mallorca, Spain, April. Invited Flashtalk and Poster

Shared Task Conference Publications

- Marion Weller-Di Marco, **Alexander Fraser** (2022). Findings of the WMT 2022 Shared Tasks in Unsupervised MT and Very Low Resource Supervised MT. In *Proceedings of the Seventh Conference on Machine Translation (WMT)*, pages 801 to 805, Abu Dhabi, UAE, December.
- Marion Weller-Di Marco, Alexander Fraser (2022). Test Suite Evaluation: Morphological Challenges and Pronoun Translation. In *Proceedings of the Seventh Conference on Machine Translation (WMT)*, pages 458 to 468, Abu Dhabi, UAE, December.
- Jindřich Libovický, **Alexander Fraser** (2021). Findings of the WMT 2021 Shared Tasks in Unsupervised MT and Very Low Resource Supervised MT. In *Proceedings of the Sixth Conference on Machine Translation (WMT)*, pages 726 to 732, Punta Cana, Dominican Republic, November
- Wen Lai, Jindřich Libovický, **Alexander Fraser** (2021). The LMU Munich System for the WMT 2021 Large-Scale Multilingual Machine Translation Shared Task. In *Proceedings of the Sixth Conference on Machine Translation (WMT)*, pages 412 to 417, Punta Cana, Dominican Republic, November.
- Jindřich Libovický, **Alexander Fraser** (2021). The LMU Munich Systems for the WMT21 Unsupervised and Very Low-Resource Translation Task. In *Proceedings of the Sixth Conference on Machine Translation (WMT)*, pages 989 to 994, Punta Cana, Dominican Republic, November.
- Alexander Fraser (2020). Findings of the WMT 2020 Shared Tasks in Unsupervised MT and Very Low Resource Supervised MT. In ACL 2020 Fifth Conference on Machine Translation (WMT), pages 765 to 771, November
- Alexandra Chronopoulou, Dario Stojanovski, Viktor Hangya, **Alexander Fraser** (2020). The LMU Munich System for the WMT 2020 Unsupervised Machine Translation Shared Task. In *ACL 2020 Fifth Conference on Machine Translation (WMT)*, pages 2703 to 2711, November

- Jindřich Libovický, Viktor Hangya, Helmut Schmid, Alexander Fraser (2020). The LMU Munich System for the WMT20 Very Low Resource Supervised MT Task. In ACL 2020 Fifth Conference on Machine Translation (WMT), pages 1104 to 1111, November
- Dario Stojanovski, Viktor Hangya, Matthias Huck, **Alexander Fraser** (2019). The LMU Munich Unsupervised Machine Translation System for WMT19. In *Proceedings of the Fourth Conference on Machine Translation (WMT)*, pages 592 to 598, Florence, Italy, August
- Dario Stojanovski, Alexander Fraser (2019). Combining Local and Document-Level Context: The LMU Munich Neural Machine Translation System at WMT19. In *Proceedings of the Fourth Conference on Machine Translation (WMT)*, pages 599 to 605, Florence, Italy, August
- Viktor Hangya, **Alexander Fraser** (2018). An Unsupervised System for Parallel Corpus Filtering. In *Proceedings of the Third Conference on Machine Translation (WMT)*, pages 882 to 887, Brussels, Belgium, October
- Matthias Huck, Dario Stojanovski, Viktor Hangya, **Alexander Fraser** (2018). LMU Munich's Neural Machine Translation Systems at WMT 2018. In *Proceedings of the Third Conference on Machine Translation (WMT)*, pages 648 to 654, Brussels, Belgium, October
- Dario Stojanovski, Viktor Hangya, Matthias Huck, **Alexander Fraser** (2018). The LMU Munich Unsupervised Machine Translation Systems. In *Proceedings of the Third Conference on Machine Translation (WMT)*, pages 513 to 521, Brussels, Belgium, October
- Matthias Huck, Fabienne Braune, **Alexander Fraser** (2017). LMU Munich's Neural Machine Translation Systems for News Articles and Health Information Texts. In *Proceedings of the Second ACL Conference on Machine Translation (WMT)*, pages 315 to 322, Copenhagen, Denmark, September
- Matthias Huck, **Alexander Fraser**, Barry Haddow (2016). The Edinburgh/LMU Hierarchical Machine Translation system for WMT 2016. In *Proceedings of the First Conference on Machine Translation (WMT)*, pages 311 to 318, Berlin, Germany, August
- Jan-Thorsten Peter, Tamer Alkhouli, Hermann Ney, Matthias Huck, Fabienne Braune, **Alexander Fraser**, Aleš Tamchyna, Ondřej Bojar, Barry Haddow, Rico Sennrich, Frédéric Blain, Lucia Specia, Jan Niehues, Alex Waibel, Alexandre Allauzen, Lauriane Aufrant, Franck Burlot, Elena Knyazeva, Thomas Lavergne, François Yvon, Stella Frank, and Mārcis Pinnis (2016). The QT21/HimL Combined Machine Translation System. In *Proceedings of the First Conference on Machine Translation (WMT)*, pages 341 to 352, Berlin, Germany, August
- Aleš Tamchyna, Roman Sudarikov, Ondřej Bojar, **Alexander Fraser** (2016). CUNI-LMU submissions in WMT2016: Chimera constrained and beaten. In *Proceedings of the First Conference on Machine Translation (WMT)*, pages 382 to 387, Berlin, Germany, August

Conference Project Description

B. Haddow, A. Birch, O. Bojar, F. Braune, C. Davenport, A. Fraser, M. Huck, M. Kaspar, K. Kovarikova, J. Plch, A. Ramm, J. Ried, J. Sheary, A. Tamchyna, D. Variš, M. Weller, and P. Williams (2017). HimL: Health in my Language. In *EAMT 2017 User Studies and Project/Product Descriptions*, page 33, Prague, Czech Republic, May

Refereed Workshop Publications

• Yaqi Zhang, Viktor Hangya, **Alexander Fraser** (2024). A Study of the Class Imbalance Problem in Abusive Language Detection. *Proceedings of the Workshop on Online Abuse and Harms* (WOAH), Mexico City, June.

- Alexandra Chronopoulou, Dario Stojanovski, Alexander Fraser (2023). Language-Family
 Adapters for Low-Resource Multilingual Neural Machine Translation. Workshop on Technologies for
 Machine Translation of Low-Resource Languages (LoResMT), pages 59-72, Dubrovnik, Croatia,
 May.
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