

# ALEXANDER M. FRASER - Publications List

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## 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*, 57(4), pages 1515 to 1546
- 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, **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
- Aleš 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 Linguistics*, 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

- Faeze Ghorbanpour, Viktor Hangya, **Alexander Fraser** (2025). Fine-Grained Transfer Learning for Harmful Content Detection through Label-Specific Soft Prompt Tuning. Accepted to *Proceedings of NAACL*, to appear.
- Katharina Hämmerl, Tomasz Limisiewicz, Jindřich Libovický, **Alexander Fraser** (2025). Beyond Literal Token Overlap: Token Alignability for Multilinguality. Accepted to *Proceedings of NAACL*, to appear.

- Yaqi Zhang, Viktor Hangya, **Alexander Fraser** (2025). LLM Sensitivity Challenges in Abusive Language Detection: Instruction-Tuned vs. Human Feedback. *Proceedings of the 31st International Conference on Computational Linguistics (COLING)*, pages 2765-2780, Abu Dhabi, UAE, January.
- Marion Di Marco, **Alexander Fraser** (2024). Subword Segmentation in LLMs: Looking at Inflection and Consistency. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 12050-12060, Miami, FL, USA, November.
- Lukas Edman, Helmut Schmid, **Alexander Fraser** (2024). CUTE: Measuring LLMs' Understanding of Their Tokens. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 3017-3026, Miami, FL, USA, November.
- Wen Lai, Viktor Hangya, **Alexander Fraser** (2024). Style-Specific Neurons for Steering LLMs in Text Style Transfer. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 13427-13443, Miami, FL, USA, November.
- Hate Personified: Investigating the role of LLMs in content moderation (2024). Sarah Masud, Sahajpreet Singh, Viktor Hangya, **Alexander Fraser**, Tanmoy Chakraborty. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 15847-15863, Miami, FL, USA, November.
- Wen Lai, Mohsen Mesgar, **Alexander Fraser** (2024). LLMs Beyond English: Scaling the Multilingual Capability of LLMs with Cross-Lingual Feedback. In *Findings of the Association for Computational Linguistics: ACL 2024*, pages 8186-8213, Bangkok, Thailand, August.
- Katharina Hämmerl, Jindřich Libovický, **Alexander Fraser** (2024). Understanding Cross-Lingual Alignment – A Survey. In *Findings of the Association for Computational Linguistics: ACL 2024*, pages 10922-10943, Bangkok, Thailand, August.
- 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*, pages 222-237, Mexico City, Mexico, 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, **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.
- Wen Lai, Alexandra Chronopoulou, **Alexander Fraser** (2023). Mitigating Data Imbalance and Representation Degeneration in Multilingual Machine Translation. In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pages 14279-14294, 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**, 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**, 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 11993-12006, 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 4282-4296, 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 5191-5204, 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 3586-3589, Sydney, Australia, September.
- Katharina Hämmerl, Jindřich Libovický, **Alexander Fraser** (2022). Combining static and contextualised multilingual embeddings. In *Findings of ACL*, pages 2316-2329, Dublin, Ireland, May.
- Jindřich Libovický, **Alexander Fraser** (2022). Why don't people use character-level machine translation? In *Findings of ACL*, pages 2470-2485, 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 614-624, 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 3725-3750, 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 176-187, 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 227-232, 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 173-180, 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 6044-6055, 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 4732-4749, 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 2703-2711, 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 2572-2579, November
- Jindřich Libovický, Rudolf Rosa, **Alexander Fraser** (2020). On the Language Neutrality of Pre-trained Multilingual Representations. In *Findings of EMNLP 2020*, pages 1663-1674, 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 89-101, 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 4227-4232, 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 2573-2580, 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 50-58, 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 140-150, 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 1224-1234, Florence, Italy, July

- Matthias Huck, Viktor Hangya, **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 5809-5815, 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 49-60, 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 810-820, 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 1520-1530, 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 188-193, New Orleans, Louisiana, USA, June
- Costanza Conforti, Matthias Huck, **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 39-53, 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 56-67, 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 32-42, 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 625-630, 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 1704-1714, 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 21-31, 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 43-53, 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 92-101, 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 1095-1101, 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 2268-2274, 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 39-48, 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 164-174, 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 275-287, 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 Linguistics (COLING)*, pages 421-432, 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 11-18, 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 579-587, 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 399-405, 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 593-603, 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 1-11, 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 469-477, 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 177-184, 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 664-674, 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 726-735, 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 129-137, 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 1045-1054, 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 430-439, 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 81-89, 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 465-474, 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 737-740, 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 282-290, 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 260-267, 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 51-60, 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 769-776, 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 265-272, 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 161-168, 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 269-274, 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, **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 1-6, 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 43-52, 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

- Lukas Edman, Lisa Bylinina, Faeze Ghorbanpour, **Alexander Fraser** (2024). Are BabyLMs Second Language Learners? In *Proceedings of the BabyLM Challenge at the 28th Conference on Computational Natural Language Learning*, Miami, FL, USA, November.
- 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 801-805, 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 458-468, 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 726-732, 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 412-417, 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 989-994, 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 765-771, 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 2703-2711, 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 1104-1111, 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 592-598, Florence, Italy, August
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- Andreas Dimmelmeier, Hendrik Doll, Malte Schierholz, Emily Kormanyos, Maurice Fehr, Bolei Ma, Jacob Beck, **Alexander Fraser**, Frauke Kreuter (2024). Informing Climate Risk Analysis Using Textual Information - A Research Agenda. In *Proceedings of the 1st Workshop on Natural Language Processing Meets Climate Change (ClimateNLP 2024)*, pages 12-26, Bangkok, Thailand, August.
- 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)*, pages 38-51, Mexico City, Mexico, June.
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