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Natural Language Processing  
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## Employment

### Tenure Track Assistant Professor

Natural Language Processing

København Ø

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## Qualifications

Computational Neuroscience, Ph.D., Hebrew University of Jerusalem  
Award Date: 10 Oct 2019

Mathematics and Computer Science, B.Sc., Open University of Israel  
Award Date: 29 Nov 2010

## Research outputs

### Unhappy Texts? A Gendered and Computational Rereading of The Modern Breakthrough

Nielsen Degn, K., Bjerring-Hansen, Jens, Al-Laith, Ali Mohammed Ali & Hershovich, Daniel, 2025, (Accepted/In press)  
In: *Scandinavian Studies*. 97, 2

### Bridging Cultural Nuances in Dialogue Agents through Cultural Value Surveys

Cao, Y., Chen, M. & Hershovich, Daniel, 2024, *Findings of the Association for Computational Linguistics: EACL 2024*.  
Association for Computational Linguistics (ACL), p. 929–945

### Cultural Adaptation of Recipes

Cao, Y., Kementchedjhieva, Yova Radoslavova, Cui, Ruixiang, Karamolegkou, Antonia, Zhou, L., Dare, M., Donatelli, L. & Hershovich, Daniel, 2024, In: *Transactions of the Association for Computational Linguistics*. 12, p. 80-99

### Geo-Encoder: A Chunk-Argument Bi-Encoder Framework for Chinese Geographic Re-Ranking

Cao, Y., Ding, R., Chen, B., Li, X., Chen, M., Hershovich, Daniel, Xie, P. & Huang, F., 2024, *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (Volume 1: Long Papers)*.  
Association for Computational Linguistics (ACL), p. 1516–1530

### Sentiment Classification of Historical Danish and Norwegian Literary Texts

Al-Laith, Ali Mohammed Ali, Nielsen Degn, K., Conroy, Alexander, Pedersen, Bolette Sandford, Bjerring-Hansen, Jens & Hershovich, Daniel, May 2023, *Proceedings of the 24th Nordic Conference on Computational Linguistics (NoDaLiDa)*.  
Association for Computational Linguistics (ACL), p. 324–334

### A Two-Sided Discussion of Preregistration of NLP Research

Søgaard, Anders, Hershovich, Daniel & de Lhoneux, M., 2023, *EACL 2023 - 17th Conference of the European Chapter of the Association for Computational Linguistics, Proceedings of the Conference*. Association for Computational Linguistics (ACL), p. 83-93

### Assessing Cross-Cultural Alignment between ChatGPT and Human Societies: An Empirical Study

Cao, Y., Zhou, L., Lee, S., Cabello Piqueras, Laura, Chen, M. & Hershovich, Daniel, 2023, *Proceedings of the First Workshop on Cross-Cultural Considerations in NLP (C3NLP)*. Association for Computational Linguistics (ACL), p. 53-67

### **Cross-Cultural Transfer Learning for Chinese Offensive Language Detection**

Zhou, L., Cabello Piqueras, Laura, Cao, Y. & Hershovich, Daniel, 2023, *EACL 2023 - Cross-Cultural Considerations in NLP @ EACL, Proceedings of the Workshop*. Association for Computational Linguistics (ACL), p. 8-15

### **Cultural Compass: Predicting Transfer Learning Success in Offensive Language Detection with Cultural Features**

Zhou, L., Karamolegkou, Antonia, Chen, W. & Hershovich, Daniel, 2023, *Findings of the Association for Computational Linguistics: EMNLP 2023*. Association for Computational Linguistics (ACL), p. 12684–12702

### **On Evaluating Multilingual Compositional Generalization with Translated Datasets**

Wang, Zi & Hershovich, Daniel, 2023, *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Association for Computational Linguistics (ACL), p. 1669-1687

### **Pay More Attention to Relation Exploration for Knowledge Base Question Answering**

Cao, Y., Li, X., Liu, H., Dai, W., Chen, S., Wang, B., Chen, M. & Hershovich, Daniel, 2023, *Findings of the Association for Computational Linguistics, ACL 2023*. Association for Computational Linguistics (ACL), p. 2119-2136

### **Probing for Hyperbole in Pre-Trained Language Models**

Schneidermann, Nina Skovgaard, Hershovich, Daniel & Pedersen, Bolette Sandford, 2023, *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 4: Student Research Workshop)*. Association for Computational Linguistics, p. 200–211 12 p.

### **What does the Failure to Reason with “Respectively” in Zero/Few-Shot Settings Tell Us about Language Models?**

Cui, Ruixiang, Lee, S., Hershovich, Daniel & Søgaard, Anders, 2023, *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics: Long Papers*. Association for Computational Linguistics (ACL), Vol. 1. p. 8786-8800

### **A Dataset of Sustainable Diet Arguments on Twitter**

Hansen, M. A. & Hershovich, Daniel, 2022, *Proceedings of the Second Workshop on NLP for Positive Impact (NLP4PI)*. Association for Computational Linguistics, p. 40–58

### **Can AMR Assist Legal and Logical Reasoning?**

Schrack, Nikolaus Alexander, Cui, Ruixiang, López, H. A. & Hershovich, Daniel, 2022, *Findings of the Association for Computational Linguistics: EMNLP 2022*. Association for Computational Linguistics, p. 1555-1568

### **Challenges and Strategies in Cross-Cultural NLP**

Hershovich, Daniel, Frank, Stella Christina, Lent, H., de Lhoneux, M., Abdou, M., Brandl, Stephanie, Bugliarello, Emanuele, Cabello Piqueras, Laura, Chalkidis, Ilias, Cui, Ruixiang, Fierro Mella, Constanza Catalina, Margatina, K., Rust, Phillip & Søgaard, Anders, 2022, *ACL 2022 - 60th Annual Meeting of the Association for Computational Linguistics, Proceedings of the Conference (Long Papers)*. Muresan, S., Nakov, P. & Villavicencio, A. (eds.). Association for Computational Linguistics (ACL), Vol. 1. p. 6997-7013

### **Compositional Generalization in Multilingual Semantic Parsing over Wikidata**

Cui, Ruixiang, Aralikkatte, R., Lent, H. & Hershovich, Daniel, 2022, In: *Transactions of the Association for Computational Linguistics*. 10, p. 937-955

### **Evaluating Deep Taylor Decomposition for Reliability Assessment in the Wild**

Brandl, Stephanie, Hershovich, Daniel & Søgaard, Anders, 2022, In: *Proceedings of the International AAAI Conference on Web and Social Media*. 16, p. 1368-1372

### **Generalized Quantifiers as a Source of Error in Multilingual NLU Benchmarks**

Cui, Ruixiang, Hershovich, Daniel & Søgaard, Anders, 2022, *NAACL 2022 - 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Proceedings of the Conference*. Association for Computational Linguistics (ACL), p. 4875-4893

### **Scaling Creative Inspiration with Fine-Grained Functional Aspects of Ideas**

Hope, T., Tamari, R., Hershovich, Daniel, Kang, H. B., Chan, J., Kittur, A. & Shahaf, D., 2022, *CHI 2022 - Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*. Association for Computing Machinery, Inc., p. 1-15  
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### **Towards Climate Awareness in NLP Research**

Hershovich, Daniel, Webersinke, N., Kraus, M., Bingler, J. A. & Leippold, M., 2022, *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*. Association for Computational Linguistics, p. 2480-2494

### **A Multilingual Benchmark for Probing Negation-Awareness with Minimal Pairs**

Hartmann, M., de Lhoneux, M., Hershovich, Daniel, Kementchedjieva, Yova Radoslavova, Nielsen, Lukas Christian, Qiu, C. & Søgaard, Anders, 2021, *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*. Association for Computational Linguistics, p. 244-257

### **An autonomous debating system**

IBM Research AI, I. R. A., 2021, In: *Nature*. 591, 7850, p. 379-384 6 p.

### **Can Language Models Encode Perceptual Structure Without Grounding? A Case Study in Color**

Abdou, M., Kulmizev, A., Hershovich, Daniel, Frank, S., Pavlick, E. & Søgaard, Anders, 2021, *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*. Association for Computational Linguistics, p. 109-132

### **Great Service! Fine-grained Parsing of Implicit Arguments**

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### **How far can we get with one GPU in 100 hours? CoAStAL at MultiIndicMT Shared Task**

Aralikatte, R., Murrieta Bello, H. R., Hershovich, Daniel, Bollmann, M. & Søgaard, Anders, 2021, *Proceedings of the 8th Workshop on Asian Translation (WAT2021)*. Association for Computational Linguistics, p. 205-211

### **It's the Meaning That Counts: The State of the Art in NLP and Semantics**

Hershovich, Daniel & Donatelli, L., 2021, In: *KI - Künstliche Intelligenz*. 35, 3-4, p. 255-270 16 p.

### **Joint Semantic Analysis with Document-Level Cross-Task Coherence Rewards**

Aralikatte, R. R., Abdou, M. H. M. A., Lent, H. C., Hershovich, Daniel & Søgaard, Anders, 2021, *Proceedings of the AAAI-21 International Joint Conference on Artificial Intelligence*. AAAI Press, 10 p. (Proceedings of the International Joint Conference on Artificial Intelligence; No. 14, Vol. 35).

### **Lexical Semantic Recognition**

Liu, N. F., Hershovich, Daniel, Kranzlein, M. & Schneider, N., 2021, *Proceedings of the 17th Workshop on Multiword Expressions (MWE 2021)*. Association for Computational Linguistics, p. 49-56

### **Moses and the Character-Based Random Babbling Baseline: CoAStAL at AmericasNLP 2021 Shared Task**

Bollmann, M., Aralikatte, R., Bello, H. R. M., Hershovich, Daniel, de Lhoneux, M. & Søgaard, Anders, 2021, *Proceedings of the 1st Workshop on Natural Language Processing for Indigenous Languages of the Americas, AmericasNLP 2021*. Mager, M., Oncevay, A., Rios, A., Ruiz, I. V. M., Palmer, A., Neubig, G. & Kann, K. (eds.). Association for Computational Linguistics, p. 248-254

### **Special Issue on NLP & Semantics**

Hershovich, Daniel & Donatelli, L., 2021, In: *KI - Künstliche Intelligenz*. 35, 3-4, p. 251-253 3 p.

### **Comparison by Conversion: Reverse-Engineering UCCA from Syntax and Lexical Semantics**

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### **Cross-lingual Semantic Representation for NLP with UCCA**

Abend, O., Dvir, D., Hershovich, Daniel, Prange, J. & Schneider, N., 2020, *Proceedings of the 28th International Conference on Computational Linguistics: Tutorial Abstracts*. Association for Computational Linguistics, p. 1-9

### **HUJI-KU at MRP 2020: Two Transition-based Neural Parsers**

Arviv, O., Cui, Ruixiang & Hershovich, Daniel, 2020, *Proceedings of the CoNLL 2020 Shared Task: Cross-Framework Meaning Representation Parsing*. Association for Computational Linguistics, p. 73-82

### **Køpsala: Transition-Based Graph Parsing via Efficient Training and Effective Encoding**

Hershovich, Daniel, De Lhoneux, M., Kulmizev, A., Pejhan, E. & Nivre, J., 2020, *Proceedings of the 16th International Conference on Parsing Technologies and the IWPT 2020 Shared Task on Parsing into Enhanced Universal Dependencies*. Association for Computational Linguistics, p. 236-244

### **MRP 2019: Cross-Framework Meaning Representation Parsing**

Oepen, S., Abend, O., Hajic, J., Hershovich, Daniel, Kuhlmann, M., O'gorman, T., Xue, N., Chun, J., Straka, M. & Uresova, Z., 2020, *Proceedings of the Shared Task on Cross-Framework Meaning Representation Parsing at the 2019 Conference on Natural Language Learning*. Association for Computational Linguistics, p. 1-27

### **MRP 2020: The Second Shared Task on Cross-Framework and Cross-Lingual Meaning Representation Parsing**

Oepen, S., Abend, O., Abzianidze, L., Bos, J., Hajic, J., Hershovich, Daniel, Li, B., O'gorman, T., Xue, N. & Zeman, D., 2020, *Proceedings of the CoNLL 2020 Shared Task: Cross-Framework Meaning Representation Parsing*. Association for Computational Linguistics, p. 1-22

### **Refining Implicit Argument Annotation for UCCA**

Cui, Ruixiang & Hershovich, Daniel, 2020, *Proceedings of the Second International Workshop on Designing Meaning Representations*. Association for Computational Linguistics, p. 41-52

### **TUPA at MRP 2019: A Multi-Task Baseline System**

Hershovich, Daniel & Arviv, O., 2020, *Proceedings of the Shared Task on Cross-Framework Meaning Representation Parsing at the 2019 CoNLL*. Association for Computational Linguistics, p. 28-39

### **Argument Invention from First Principles**

Bilu, Y., Gera, A., Hershovich, Daniel, Sznajder, B., Lahav, D., Moshkovich, G., Malet, A., Gavron, A. & Slonim, N., 2019, *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics*. Association for Computational Linguistics, p. 1013–1026

### **Rewarding Coreference Resolvers for Being Consistent with World Knowledge**

Aralikatte, R., Lent, H., Gonzalez, Ana Valeria, Hershovich, Daniel, Qiu, C., Sandholm, A., Ringgaard, M. & Søgaard, Anders, 2019, *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*. Association for Computational Linguistics, p. 1229-1235

### **SemEval-2019 Task 1: Cross-lingual Semantic Parsing with UCCA**

Hershovich, Daniel, Aizenbud, Z., Choshen, L., Sulem, E., Rappoport, A. & Abend, O., 2019, *Proceedings of the 13th International Workshop on Semantic Evaluation (SemEval-2019)*. Association for Computational Linguistics, p. 1-10

### **Syntactic Interchangeability in Word Embedding Models**

Hershovich, Daniel, Toledo, A., Halfon, A. & Slonim, N., 2019, *Proceedings of the 3rd Workshop on Evaluating Vector Space Representations for NLP*. Association for Computational Linguistics, p. 70-76

### **Syntactic Interchangeability in Word Embedding Models**

Hershovich, Daniel, Toledo, A., Halfon, A. & Slonim, N., 2019, *Proceedings of the 3rd Workshop on Evaluating Vector Space Representations for NLP*. Association for Computational Linguistics, p. 70–76

**The Language of Legal and Illegal Activity on the Darknet**

Choshen, L., Eldad, D., Hershovich, Daniel, Sulem, E. & Abend, O., 2019, *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics*. Association for Computational Linguistics, p. 4271-4279

**Universal semantic parsing with neural networks Hershovich**

Hershovich, Daniel, 2019, 136 p.