

# Publications of Beáta Megyesi

## Journal Articles

1. **Megyesi, B.** (2002) Shallow Parsing with PoS Taggers and Linguistic Features. *Journal of Machine Learning Research: Special Issue on Shallow Parsing* JMLR (2), MIT Press.
2. Seraji, M., **Megyesi, B.**, and Nivre, J. (2012) Bootstrapping a Persian Dependency Treebank. *Special Issue of the Journal of Linguistic Issues in Language Technology* (LiLT).
3. Knight, K., **Megyesi, B.**, and Schaefer, Ch. (2012) The Secrets of the Copiale Cipher. *Journal for Research into Freemasonry and Fraternalism*. 2(2)
4. Smith, K., **Megyesi, B.**, Velupillai, S., and Kvist, M. (2014) Professional Language in Swedish Clinical Text: Linguistic Characterization and Comparative Studies. *Nordic Journal of Linguistics*. Volume 37, issue 02, pp. 297-323. Cambridge University Press.
5. Csató, É. Á. Kaşikara, H., **Megyesi, B.**, and Nivre, J. (2015) Parallel corpora and Universal Dependency for Turkic. *Turkic Languages* 19, 259- 273.
6. Volodina, E., Granstedt, L., Matsson, A., **Megyesi, B.**, Pilán, I., Prentice, J., Rosén, D., Rudebeck, L., Schenström, C., Sundberg G., and Wirén, M. (2019) The SweLL Language Learner Corpus: From Design to Annotation. *Northern European Journal of Language Technology* (NEJLT).
7. **Megyesi, B.**, Esslinger, B., Fornés, A., Kopal, N., Láng, B., Lasry, G., de Leeuw, K., Pettersson, E., Wacker A., and Waldispühl, M. (2020) Decryption of historical manuscripts: the DECRYPT project. *Cryptologia*. DOI: doi.org/10.1080/01611194.2020.1716410.
8. Lasry, G., **Megyesi, B.**, and Kopal, N. (2020). Deciphering Papal Ciphers from the 16th to the 18th Century. *Cryptologia*. DOI: doi.org/10.1080/01611194.2020.1755915
9. Souibgui, M.A., Fornés, A., Kessentini, Y., and **Megyesi, B.** (2022). Few Shots Are All You Need: A Progressive Learning Approach for Low Resource Handwritten Text Recognition. *Journal of Pattern Recognition Letters*. Elsevier.
10. **Megyesi, B.**, Tudor, C., Láng, B., Lehofer, A., Kopal, N., de Leeuw, K., and Waldispühl, M. (2024). Keys with Nomenclatures in the Early Modern Europe. *Cryptologia* 48:2. pp. 97-139. Taylor and Francis. DOI: doi.org/10.1080/01611194.2022.2113185

## **Book Chapters**

1. **Megyesi, B.**, Dahlqvist, B., Pettersson, E., Gustafson-Čapkova, S., and Nivre, J. (2008) *Supporting Research Environment for Less Explored Languages: A Case Study of Swedish and Turkish*. In Resourceful Language Technology: Festschrift in Honor of Anna Sågvall Hein. Uppsala University, Faculty of Languages, Department of Linguistics and Philology, Uppsala, Sweden.
2. Nivre, J., **Megyesi, B.**, Gustafson-Čapkova, S., Salomonsson, F., and Dahlqvist, B. (2008) *Cultivating a Swedish Treebank*. In Resourceful Language Technology: Festschrift in Honor of Anna Sågvall Hein. Uppsala University, Faculty of Languages, Department of Linguistics and Philology, Uppsala, Sweden.
3. **Megyesi, B.**, Fornés, A., Kopal, N., Láng, B., Waldspühl, M., Mikhalev, V., and Esslinger, B. (2024) *Historical Cryptology*. Chapter 3 from the book "Learning and Experiencing Cryptography with CrypTool and SageMath", Artech House.

## **Edited Volumes**

1. Nivre, J., Dahllöf, M., **Megyesi, B.** (editors) (2008) *Resourceful Language Technology: Festschrift in Honor of Anna Sågvall Hein*. Uppsala University, Faculty of Languages, Department of Linguistics and Philology
2. **Megyesi, B.** (editor) (2015) *Proceedings of the 20th Nordic Conference of Computational Linguistics*. NEALT Proceedings Series 23. NODALIDA 2015, May 11-13, 2015, Vilnius, Lithuania. Published by ACL anthology and Linköping Electronic Press.
3. **Megyesi, B.** (editor) (2018) *Proceedings of the 1st International Conference on Historical Cryptology HistoCrypt 2018*. NEALT Proceedings Series 34. HistoCrypt 2018, June 18-20, 2018, Uppsala, Sweden. Published by Linköping Electronic Press.
4. Ahrenberg, L. and **Megyesi, B.** (editors) (2019) *Proceedings of the Workshop on NLP and Pseudonymisation*. September 30, 2019. NEALT Proceedings Series 166, Linköping Electronic Press and ACL anthology.
5. **Megyesi, B.** (2020) (editor) *Proceedings of the 3rd International Conference on Historical Cryptology*. NEALT Proceedings Series 44. HistoCrypt 2020. Published by Linköping Electronic Press.
6. Dahlke, C. and **Megyesi, B.** (editors) Proceedings of the 5th International Conference on Historical Cryptology. NEALT Proceedings Series 49. HistoCrypt 2022. Published by Linköping Electronic Press.
7. Ilinykh, N., Morger, F., Dannélls, D., Dobnik, S., **Megyesi, B.**, Morger, F., and Nivre, J. (editors) Proceedings of the Second Workshop on Resources and Representations for Under-Resourced Languages and Domains. NoDaLiDa 2023. Association for Computational Linguistics.

## Dissertations

1. **Megyesi, B.** (2002) *Data-Driven Syntactic Analysis — Methods and Applications for Swedish*. Doctoral Dissertation, Department of Speech, Music and Hearing, Kungliga Tekniska Högskolan, Stockholm, Sweden.

## Refereed Conference Papers

1. **Megyesi, B.** (1999) Brill's PoS Tagger with Extended Lexical Templates for Hungarian. *Workshop (W01) on Machine Learning in Human Language Technology, ACAI'99*, Chania, Crete, Greece July 5 - July 16, 1999.
2. **Megyesi, B.** (1999) Improving Brill's PoS Tagger for an Agglutinative Language. In *Proceedings of the Joint Sigdor Conference on Empirical Methods in Natural Language Processing and Very Large Corpora (EMNLP/VLC '99)*, pp. 275–284, University of Maryland, USA, June 21–22, 1999.
3. **Megyesi, B.** and Rydin, S. (2000) Towards a Finite-State Parser for Swedish. In *Proceedings of NoDaLiDa 1999*, pp. 115–123, Trondheim, Norway, December 9–10, 1999.
4. Berthelsen, H. and **Megyesi, B.** (2000) Ensemble of Classifiers for Noise Detection in PoS Tagged Corpora. In *Proceedings of the Third International Workshop on TEXT, SPEECH and DIALOGUE*, pp. 27–32, Brno, Czech Republic, September 13–16, 2000. Springer-Verlag in LNCS/LNAI series.
5. **Megyesi, B.** (2001) Data-Driven Methods for PoS tagging and Chunking of Swedish. In *Proceedings of NoDaLiDa 2001*, Uppsala, Sweden, May 21–22, 2001.
6. Gustafson-Čapkova, S. and **Megyesi, B.** (2001) A Comparative Study of Pauses in Dialogues and Read Speech. In *Proceedings of Eurospeech 2001*, Volume 2, pp. 931–935, Aalborg, Denmark, September 3–7, 2001.
7. **Megyesi, B.** and Gustafson-Čapkova, S. (2001) Pausing in Dialogues and Read Speech: Speakers' Production and Listeners' Interpretation. In *Proceedings of the Workshop on Prosody in Speech Recognition and Understanding*, pp. 107–113, New Jersey, USA, October 22–24, 2001.
8. **Megyesi, B.** (2001) Comparing Data-Driven Learning Algorithms for PoS Tagging of Swedish. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2001)*, pp. 151–158, Carnegie Mellon University, Pittsburgh, PA, USA, June 3–4, 2001.
9. **Megyesi, B.** (2001) Phrasal Parsing by Using Data-Driven PoS Taggers. In *Proceedings of the Conference on Recent Advances in Natural Language Processing, Euro Conference RANLP-2001*, pp. 166–173, Tzgov Chark, Bulgaria, September 5–7, 2001.

10. Gustafson-Čapkova, S. and **Megyesi, B.** (2002) Silence and Discourse Context in Read Speech and Dialogues in Swedish. In *Proceedings of the Speech Prosody 2002 conference*, Bernard Bel and Isabelle Marljen (eds.), pp. 363–366, Aix-en-Provence, France, April 11–13, 2002.
11. Carlson, R., Granström, B., Heldner, M., House, D., **Megyesi, B.**, Strangert, E. and Swerts, M. (2002) Boundaries and groupings – the structuring of speech in different communicative situations: a description of the GROG project. In *Proceedings of Fonetik 2002*, TMH-QPSR Volume 44, pp. 65–69, Stockholm, Sweden, May 29–31, 2002.
12. **Megyesi, B.** and Gustafson-Čapkova, S. (2002) Production and Perception of Pauses and their Linguistic Context in Read and Spontaneous Speech in Swedish. In *Proceedings of ICSLP'2002 - 7th International Conference on Spoken Language Processing*, Denver, USA, September 16–20, 2002.
13. **Megyesi, B.** and Carlson, R. (2002) Data-Driven Methods for Building a Swedish Treebank. Extended abstract to the Swedish Treebank Symposium, 28-29 November 2002, Växjö University, Sweden.
14. Heldner, M. and **Megyesi, B.** (2003) *Exploring the Prosody-Syntax Interface*. In Proceeding of the 15th International Congress of Phonetic Sciences (ICPhS), 2-9 August 2003, Barcelona, Spain.
15. Heldner, M. and **Megyesi, B.** (2003) *The Acoustic and Morpho-Syntactic Context of Prosodic Boundaries in Dialogs*. In Proceeding of Fonetik 2003, 2-3 June 2003, Umeå, Sweden.
16. Wastholm, P., Kusma, A., and **Megyesi, B.** (2005) Using Linguistic Data for Genre Classification. In *Proceedings of Swedish Artificial Intelligence and Learning Systems SAIS-SSL 2005*.
17. **Megyesi, B.**, Sågvall Hein, A. and Csato Johanson, E. (2006) Building a Swedish-Turkish Parallel Corpus. In *Proceedings of Language Resources and Evaluation Conference*, LREC 2006.
18. Hulth, A. and **Megyesi, B.** (2006) A Study on Automatically Extracted Keywords in Text Categorization. In *Proceedings of Association for Computational Linguistics*, ACL 2006.
19. **Megyesi, B.** and Dahlqvist, B. (2007) The Swedish-Turkish Parallel Corpus and Tools for its Creation. In *Proceedings of NoDaLida 2007*.
20. Hall, J., Nilsson, J., Nivre, J., Eryigit, G., **Megyesi, B.**, Nilsson, M. and Saers, M. (2007) Single Malt or Blended? A Study in Multilingual Parser Optimization. In *Proceedings of the CoNLL Shared Task Session of EMNLP CoNLL 2007*, pp. 933-939.

21. Nivre, J. and **Megyesi, B.** (2007) Bootstrapping a Swedish Treebank Using Cross-Corpus Harmonization and Annotation Projection. In *Proceedings of Treebanks and Linguistic Theories*, TLT 2007.
22. **Megyesi, B.**, Dahlqvist, B. Pettersson, E. and Nivre, J. (2008) Swedish-Turkish Parallel Treebank. In *Proceedings of Language Resources and Evaluation Conference*, LREC 2008.
23. Elenius, K. Forsbom, E. and **Megyesi, B.** (2008) Swedish Language Resources. In *Proceedings of Language Resources and Evaluation Conference*, LREC 2008.
24. Saxena, A., **Megyesi, B.**, Csato Johanson, E., Dahlqvist, B. (2008) Using Parallel Corpora in Teaching and Research: The Swedish-Hindi-English and Swedish-Turkish-English Parallel Corpora. In *Proceedings of Swedish Linguistic Conference*, SLC 2008.
25. **Megyesi, B.** (2009) The Open Source Tagger HunPoS for Swedish. In *Proceedings of the 17th Nordic Conference on Computational Linguistics*, Nodalida 2009.
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28. Csato, E., Kilimci, S., and **Megyesi, B.** (2010) Using Parallel Corpora in Data-Driven Teaching of Turkish in Sweden. In *Proceedings of the International Educational Technology Conference*, IETC 2010.
29. Knight, K., **Megyesi, B.**, and Schaefer, Ch. (2011) The Copiale Cipher. Part of invited talk at and in *Proceedings of ACL Workshop on Building and Using Comparable Corpora (BUCC)*, ACL 2011.
30. Pettersson, E., **Megyesi, B.**, and Nivre, J. (2012) Parsing the Past - Identification of Verb Constructions in Historical Text. In *Proceedings of the Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities*, European Association for Computational Linguistics, EACL 2012.
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33. Seraji, M., **Megyesi, B.**, and Nivre, J. (2012) Dependency Parsers for Persian. In the *Proceedings of the Workshop on Asian Language Resources*, 24th International Conference on Computational Linguistics, COLING 2012.
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35. Pettersson, E., **Megyesi, B.**, Tiedemann J. (2013) An SMT Approach to Automatic Annotation of Historical Text. *Workshop on Computational Historical Linguistics*, Nodalida 2013.
36. Pettersson, E., **Megyesi, B.**, Nivre J. (2014) A Multilingual Evaluation of Three Spelling Normalization Methods for Historical Text. In *EACL 2014 Workshop on Language Technology for Cultural Heritage, Social Sciences and Humanities*, European Association for Computational Linguistics, LaTeCH 2014, EACL 2014.
37. Seraji,M., Jahani, C., **Megyesi, B.**, and Nivre, J. (2014) A Persian Tree-bank with Stanford Typed Dependencies. In *Proceedings of Language Resources and Evaluation*, LREC 2014.
38. Tengstrand, L., **Megyesi, B.**, Henriksson, A., Duneld, M., and Kvist, M. (2014) EACL - Expansion of Abbreviations in Clinical Text. In *EACL 2014 Workshop on Predicting and Improving Text Readability for Target Reader Populations*, PITR 2014, EACL 2014.
39. Antomonov, F. and **Megyesi, B.** (2014) Automatic Morphosyntactic Analysis of Clinical Text. Extended abstract. *Swedish Language Technology Conference*, SLTC 2014.
40. Pettersson, E., **Megyesi, B.**, Nivre J. (2014) Verb Phrase Extraction in a Historical Context. *The First Swedish National SWE-CLARIN Workshop, Swedish Language Technology Conference*, SLTC 2014.
41. Pettersson, E., **Megyesi, B.**, and Nivre J. (2015) Ranking Relevant Verb Phrases Extracted from Historical Text. In *Proceedings of the 9th SIG-HUM Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities*, pages 39–47, July 30, 2015, Beijing, China.
42. **Megyesi, B.**, Näsman, J. and Palmér, A. (2016) The Uppsala Corpus of Student Writings - Corpus Creation, Annotation, and Analysis. In *Proceedings of Language Resources and Evaluation*, LREC 2016.

43. Borin, L., Tahmasebi, N., Volodina, E., Ekman, S., Jordan, C., Viklund, J., **Megyesi, B.**, Näsmann, J., Palmér, A., Wirén, M., Björkenstam, N. K., Grigonyté, G., Gustafson Capková, S., and Kosiński, T. (2017) Swe-Clarin: Language Resources and Technology for Digital Humanities. In *Proceedings of International Digital Humanities Symposium*, 7-8 Nov 2016, Växjö, Sweden.
44. Näsmann, J., **Megyesi, B.**, and Palmér, A. (2017) SWEGRAM - A Web-Based Tool for Automatic Annotation and Analysis of Swedish Texts. In *Proceedings of 21st Nordic Conference on Computational Linguistics*, Nodalida 2017, Gothenburg, Sweden.
45. Stymne, S., Pettersson, E., **Megyesi, B.**, and Palmér, A. (2017) Annotating Errors in Student Texts: First Experiences and Experiments. In *Proceedings of Joint 6th NLP4CALL and 2nd NLP4LA Nodalida workshop*, May 22, 2017, Gothenburg, Sweden.
46. Fornés A., **Megyesi, B.**, and Mas, J. (2017) Transcription of Encoded Manuscripts with Image Processing Techniques. In *Proceedings of Digital Humanities*. August 8-11, 2017, Montreal, Canada.
47. Pettersson, E. and **Megyesi, B.** (2018) The HistCorp Collection of Historical Corpora and Resources. In *Proceedings of the Third Conference on Digital Humanities in the Nordic Countries*, March 2018, Helsinki, Finland.
48. **Megyesi, B.**, Granstedt, L., Johansson, S., Prentice, J., Rosén, D., Schenström, C-J., Sundberg, G., Wirén, M., and Volodina, E. (2018) Learner Corpus Anonymization in the Age of GDPR: Insights from the Creation of a Learner Corpus of Swedish. In *Proceedings of the 7th NLP4CALL*, SLTC workshop, Stockholm, Sweden.
49. Baró A., Chen, J., Fornés, A., and **Megyesi, B.** (2019) Towards a Generic Unsupervised Method for Transcription of Encoded Manuscripts. In *Proceedings of the 3rd International Conference on Digital Access to Textual Cultural Heritage (DATECH2019)*, May 2019 Brussels, Belgium.
50. **Megyesi, B.**, Blomqvist, N., and Pettersson, E. (2019) The DECODE Database: Collection of Historical Ciphers and Keys. In *Proceedings of the 2nd International Conference on Historical Cryptology (HistoCrypt 2019)*, June 23-25, 2019, Mons, Belgium. NEALT Proceedings Series 37, Linköping Electronic Press.
51. Pettersson, E. and **Megyesi, B.**. Matching Keys and Encrypted Manuscripts. In *Proceedings of the 22nd Nordic Conference on Computational Linguistics*, NoDaLiDa 2019.
52. Yin, X., Aldarrab, N., Knight k., and **Megyesi, B.**, Decipherment of Historical Manuscript Images. In *Proceedings of the 15th International*

*Conference on Document Analysis and Recognition*, September 20–25, 2019, Sydney, Australia.

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54. **Megyesi, B.** (2020) Transcription of Historical Ciphers and Keys. In *Proceedings of the 3rd International Conference on Historical Cryptology. (HistoCrypt 2020)*. NEALT Proceedings Series 44, Linköping Electronic Press.
55. Tudor, C., **Megyesi, B.**, and Láng, B. (2020) Automatic Key Structure Extraction. In *Proceedings of the 3rd International Conference on Historical Cryptology. (HistoCrypt 2020)*. NEALT Proceedings Series 44, Lin-köping Electronic Press.
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57. Chen, j., Souibgui, M.A., Fornés, A., and **Megyesi, B.** (2021) Unsupervised Alphabet Matching in Historical Encrypted Manuscript Images. In *Proceedings of the 4th International Conference on Historical Cryptology. HistoCrypt 2021*.
58. **Megyesi, B.**, Tudor, C., Láng, B, and Lehofer, A. (2021) Key Design in the Early Modern Era in Europe. In *Proceedings of the 4th International Conference on HistCryptology. HistoCrypt 2021*.
59. Gambardella, M.E., **Megyesi, B.**, and Pettersson, E. (2022) Identifying Cleartext in Historical Ciphers. In *Proceedings of the Workshop on Language Technologies for Historical and Ancient Languages. LT4HALA 2022*. pp. 1-10.
60. Héder, M. and **Megyesi, B.** (2022) The DECODE Database of Historical Ciphers and Keys: Version 2. In *Proceedings of the 5th International Conference on Historical Cryptology. HistoCrypt 2022*.
61. Magnifico, G., **Megyesi, B.**, Souibgui, M.A., Chen, J., and Fornés, A. (2022) Lost in Transcription of Graphic Signs in Ciphers. In *Proceedings of the 5th International Conference on Historical Cryptology. HistoCrypt 2022*.
62. **Megyesi, B.**, Tudor, C., Kopal, N., Láng, B., Lehofer, A., and Waldis- pühl, M. (2022) What Was Encoded in Historical Cipher Keys in the

Early Modern Era?. In *Proceedings of the 5th International Conference on Historical Cryptology. HistoCrypt 2022*.

63. **Megyesi, B.**, Sikora, J., Fornmark, F., Waldspühl, M., Kopal, N., and Mikhalev, V. (2023) Historical Language Models in Cryptanalysis: Case Studies on English and German. In the Proceedings of the 6th International Conference on Historical Cryptology. HistoCrypt 2023. pp. 120-129.
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65. Wu, Y., Nouri, J., **Megyesi, B.**, Henriksson, A., Duneld, M., Li, X. (2023). Towards Data-Effective Educational Question Generation with Prompt-Based Learning. In: Arai, K. (eds) Intelligent Computing. SAI 2023. Lecture Notes in Networks and Systems, vol 711. Springer, Cham. [https://doi.org/10.1007/978-3-031-37717-4\\_11](https://doi.org/10.1007/978-3-031-37717-4_11)

#### Reports, other papers

1. **Megyesi, B.** (1996) *Implementering av partikelverb för projektet Datorstödd inlärning av grammatik och språkteori*. C-level thesis (Bachelor's thesis) in Computational Linguistics, Autumn 1996. Institutionen för lingvistik, Stockholm University, Sverige.
2. **Megyesi, B.** (1998) *Brill's Rule-Based Part of Speech Tagger for Hungarian*. D-level thesis (Master's thesis) in Computational Linguistics, Spring 1998. Computational Linguistics, Department of Linguistics, Stockholm University, Sweden.
3. **Megyesi, B.** (1998) *Brill's Transformation-Based Tagger*. Department of Linguistics, Stockholm University, Sweden.
4. **Megyesi, B.** (1998) *A Short Descriptive Grammar for Hungarian*. Dept. of Linguistics, Stockholm University, Sweden.
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9. **Megyesi, B.**, Csató Johanson, E., Dahlqvist, B., Gustafson-Capkova, S., Nivre, J., Pettersson, E., and Sågvall Hein, A. (2008) *Supporting Research Environment for Swedish and Turkish*. Report, November 2008. Dept. of Linguistics and Philology, Uppsala University, Sweden.
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12. **Megyesi, B.**, Palmér, A., and Näslund, J. (2019) *SWEGRAM: Annotering och analys av svenska texter*. Institutionen för lingvistik och filologi och Institutionen för nordiska språk, Uppsala universitet, Sweden.
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