Aki-Juhani Kyröläinen

University of Turku
https://akkyro.gitlab.io/
akkyro@gmail.com

Address: Boston
MA, USA

EDUCATION

2013 **PhD** Russian Studies, University of Turku
      Title: *Reflexive space: A constructionist model of the Russian reflexive marker*
      Opponent: Dr. Laura A. Janda
2006 **MA** Russian Studies, University of Turku

Research periods abroad

2017 University of Alberta, Centre for Comparative Psycholinguistics, January 01–September 30
2015 University of Alberta, Centre for Comparative Psycholinguistics, January 28–April 25
2014 University of Alberta, Centre for Comparative Psycholinguistics, June 25–September 13
2014 University of Alberta, Centre for Comparative Psycholinguistics, January 01–31
2013 University of Tartu, Department of General Linguistics, DoRa, February 01–May 31
2011 University of Tartu, Department of General Linguistics, DoRa, September 01–December 31
2009 University of Tromsø, Department of General Linguistics, April 22–May 07

Additional training

2019 The Institute of Education Sciences sponsored training on using the Program for
      the International Assessment of Adult Competencies databases, Chicago, October 16–18
2012 Old and New Statistical Tools for Understanding Language Data: An Introduction with *R*
      (R. Harald Baayen), University of Tartu, September 24–28
2010 Experimental Methods in Linguistics (Ewa Dąbrowska and R. Harald Baayen),
      University of Sheffield, April 08–11
2009 Linguistic Society of America Institute (LSA), University of Berkley, July 06–August 13
2008 Corpus Methods in Linguistics and Language Pedagogy (Stefan Th. Gries),
      University of Chicago, March 26–30
2004 Polonicum, University of Warsaw
2002 St. Petersburg State University

Employment history

Academic

2021–present	Researcher in Turku NLP Group, University of Turku, June 01–present
2017–2021	Postdoctoral Research Fellow in SSHRC Words in the World, McMaster University and Brock University, October 01, 2017–May 31, 2021
2017	Postdoctoral Research Fellow in Construal of Means and Time (COMET), University of Turku, January 01–September 30
2015–2016	Postdoctoral Research Fellow in Turku NLP Group, University of Turku, May 1, 2015–December 31, 2016
2015	Visiting Scholar, Institute of Estonian and General Linguistics, University of Tartu January 1–April 30
2014	Postdoctoral Fellow in Subject Expression in the Finnic Languages: Interactional and Cognitive Perspectives (2011–2014), University of Turku September 18–December 31
2013–2014	Visiting Professor, Institute of Estonian and General Linguistics, University of Tartu January 1, 2013–December 31, 2014
2011–2012	Graduate researcher, Department of Russian Studies, University of Turku January 1, 2011–December 31, 2012
2007–2010	Graduate researcher, Langnet (Finnish doctoral program for language studies funded by the Ministry of Education) January 1, 2007–December 31, 2010
2006	Graduate researcher, Department of Russian Studies, University of Turku June 1–December 31

Non-academic

1998–2006	Silja Line: Customer Service Representative and Capacity Optimization Agent
1997	Commissioned Officer and NCO representative (Finnish Defense Force)

List of publications

Submitted

Skantsi, V., **Kyröläinen**, **A.-J.**, & Laippala, V. (submitted). Topical landscape of web registers: Exploring the interplay of registers and topicality in a web-scale corpus. In S. Coats & V. Laippala (Eds.), *The march of data: Linguistics across disciplinary borders*. Bloomsbury Academic Series: Language, Data Science; Digital Humanities.

Under revision

Oralova, G., Boshra, R., **Kyröläinen**, **A.-J.**, Connolly, J., & Kuperman, V. (submitted). Statistics of spelling errors affects brain processes during natural reading of Chinese: Evidence from co-registration of EEG and eye-tracking signals. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

Forthcoming work

Karabin, M., **Kyröläinen**, **A.-J.**, & Kuperman, V. (forthcoming). Increase in linguistic complexity and creativity in older adults during COVID-19. *Experimental Aging Research*.

Peer-reviewed journal articles

Kyröläinen, **A.-J.**, & Laippala, V. (2023). Predictive keywords: Using machine learning to explain document characteristics. *Frontiers in Artificial Intelligence*. https://doi.org/10.3389/frai.2022.975729

Jaggers, K., Gillet, J., Kuperman, V., **Kyröläinen**, **A.-J.**, & Sonnadara, R. (2022). Personhood and aging: Exploring the written narratives of older adults as articulations of personhood in later life. *Journal of Aging Studies*, *62*, 101040. https://doi.org/10.1016/j.jaging.2022.101040

Kyröläinen, **A.-J.**, Gillet, J., Karabin, M., Libben, G., Sonnadara, R., & Kuperman, V. (2022). Cognitive and social well-being in older adulthood: The CoSoWELL corpus of written life stories. *Behavior Research Methods*, 1–25. https://doi.org/10.3758/s13428-022-01926-0

Laippala, V., Rönnqvist, S., Oinonen, M., **Kyröläinen**, **A.-J.**, Salmela, A., Biber, D., Egbert, J., & Pyysalo, S. (2022). Register identification from the unrestricted open Web using the Corpus of Online Registers of English. *Language Resources and Evaluation*, 1–35. https://doi.org/10.1007/s10579-022-09624-1

Wild, H., **Kyröläinen**, **A.-J.**, & Kuperman, V. (2022). How representative are student convenience samples? A study of literacy and numeracy skills in 32 countries. *PLoS ONE*, *17*, e0271191. https://doi.org/10.1371/journal.pone.0271191

Kuperman, V., Bar-On, A., Bertram, R., Boshra, R., Deutsch, A., **Kyröläinen**, **A.-J.**, Mathiopoulou, B., Oralova, G., & Protopapas, A. (2021). Spelling errors affect reading behavior across languages. *Journal of Experimental Psychology: General*, *10*(150), 1974–1993. https://doi.org/10.1037/xge0001038

Kuperman, V., **Kyröläinen**, **A.-J.**, Porretta, V., Brysbaert, M., & Yang, S. (2021). A lingering question addressed: Reading rate and most efficient listening rate are highly similar. *Journal of Experimental Psychology: Human Perception and Performance*, *47*(8), 1103–1112. https://doi.org/10.1037/xhp0000932

Kyröläinen, **A.-J.**, Keuleers, E., Mandera, P., Brysbaert, M., & Kuperman, V. (2021). Affect across adulthood: Evidence from English, Dutch and Spanish. *Journal of Experimental Psychology: General*, 792–812. https://doi.org/10.1037/xge0000950

Kyröläinen, **A.-J.**, & Kuperman, V. (2021a). The effect of loneliness on cognitive functioning among healthy individuals in mid- and late adulthood: Evidence from the Canadian Longitudinal Study on Aging (CLSA). *Frontiers in Psychology*. https://doi.org/10.3389/fpsyg.2021.701305

Kyröläinen, **A.-J.**, & Kuperman, V. (2021b). Predictors of literacy in adulthood: Evidence from 33 countries. *PLoS ONE*, *16*(3), e0243763. https://doi.org/10.1371/journal.pone.0243763

Kyröläinen, **A.-J.**, Luke, J., Libben, G., & Kuperman, V. (2021). Valence norms for 3,600 English words collected during the COVID-19 pandemic: Effects of age and the pandemic. *Behavior Research Methods*, 2445–2456. https://doi.org/10.3758/s13428-021-01740-0

Laippala, V., Egbert, J., Biber, D., & **Kyröläinen**, **A.-J.** (2021). Exploring the role of lexis and grammar for the stable identification of register in an unrestricted corpus of web documents. *Language Resources and Evaluation*, *55*(3), 757–788. https://doi.org/10.1007/s10579-020-09519-z

Laippala, V., **Kyröläinen**, **A.-J.**, Kanerva, J., & Ginter, F. (2021). Dependency profiles in the large-scale analysis of discourse connectives. *Corpus Linguistics and Linguistic Theory*, *17*(1), 143–175. https://doi.org/10.1515/cllt-2017-0031

Lehti, L., Luodonpää-Manni, M., Jantunen, J. H., **Kyröläinen**, **A.-J.**, Vesanto, A., & Laippala, V. (2020). Commenting on poverty online: A corpus-assisted discourse study of Suomi24 forum. *SKY Journal of Linguistics*, *33*, 7–47.

Bridgwater, E., **Kyröläinen**, **A.-J.**, & Kuperman, V. (2019). The influence of syntactic expectations on reading comprehension is malleable and strategic: An eye-tracking study of English dative alternation. *Canadian Journal of Experimental Psychology/Revue canadienne de psychologie expérimentale*, *73*(3), 179–192. https://doi.org/10.1037/cep0000173

Porretta, V., & **Kyröläinen**, **A.-J.** (2019). Influencing the time and space of lexical competition: The effect of gradient foreign accentedness. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *45*(10), 1832–1851. https://doi.org/10.1037/xlm0000674

Johansson, M., **Kyröläinen**, **A.-J.**, Ginter, F., Lehti, L., Krizsán, A., & Laippala, V. (2018). Opening up #jesuisCharlie anatomy of a Twitter discussion with mixed methods. *Journal of Pragmatics*, *129*, 90–101. https://doi.org/10.1016/j.pragma.2018.03.007

Arnhold, A., & **Kyröläinen**, **A.-J.** (2017). Modelling the interplay of multiple cues in prosodic focus marking. *Laboratory Phonology: Journal of the Association for Laboratory Phonology*, *8*(1), 4. https://doi.org/10.5334/labphon.78

Kyröläinen, **A.-J.**, Luotolahti, M. J., & Ginter, F. (2017). An autoencoder-based neural network model for selectional preference: Evidence from pseudodisambiguation and cloze tasks (L. Lindström & T. Huumo, Eds.). *Journal of Estonian and Finno-Ugric Linguistics*, *8*(2–4), 93–125. https://doi.org/10.12697/jeful.2017.8.2.04. Special issue: Grammar in use: approaches to Baltic-Finnic

Laippala, V., **Kyröläinen**, **A.-J.**, Kanerva, J., Luotolahti, M. J., Salakoski, T., & Ginter, F. (2017). Dependency profiles as a tool for big data analysis of linguistic constructions: A case study of emoticons (L. Lindström & T. Huumo, Eds.). *Journal of Estonian and Finno-Ugric Linguistics*, *8*(2), 127–153. https://doi.org/10.12697/jeful.2017.8.2.05. Special issue: Grammar in use: approaches to Baltic-Finnic

Helasvuo, M.-L., & **Kyröläinen**, **A.-J.** (2016). Choosing between zero and pronominal subject: Modeling subject expression in the 1st person singular in Finnish conversation. *Corpus Linguistics and Linguistic Theory*, *12*(2), 263–299. https://doi.org/10.1515/cllt-2015-0066

Ruutma, M., **Kyröläinen**, **A.-J.**, Pilvik, M.-L., & Uiboaed, K. (2016). Ambipositsioonide morfosüntaktilise varieerumise kirjeldusi kvantitatiivsete profiilide abil [Descriptions of the morphosyntactic variation of ambipositions by means of quantitative profiles]. *Keel ja Kirjandus* [*Language and Literature*], 92–113. URL: https://keeljakirjandus.ee/wp-content/uploads/2019/11/Ruutma_jt_2-16.pdf.

Porretta, V., **Kyröläinen**, **A.-J.**, & Tucker, B. V. (2015). Perceived foreign accentedness: Acoustic distances and lexical properties. *Attention, Perception, & Psychophysics*, *77*(7), 2438–2451. https://doi.org/10.3758/s13414-015-0916-3

Uiboaed, K., & **Kyröläinen**, **A.-J.** (2015). Keeleteaduslike andmete ruumilisi visualiseerimisvõimalusi [Techniques for spatial data visualization in linguistics]. *Eesti Rakenduslingvistika Ühingu aastaraamat / Estonian Papers in Applied Linguistics*, *11*, 281–295. https://doi.org/10.5128/ERYa11.17

Peer-reviewed book chapters

Kyröläinen, **A.-J.**, & Laippala, V. (2020). Määrällinen korpuslingvistiikka [Quantitative corpus linguistics]. In M. Hamunen, R. Konstenius, M. Luodonpää-Manni, M. Miestamo, U. Nikanne, & K. Sinnemäki (Eds.), *Kielentutkimuksen menetelmiä I–IV* [*Methods in linguistics*]. Suomalaisen kirjallisuuden seura. https://doi.org/10.21435/skst.1457

Huumo, T., **Kyröläinen**, **A.-J.**, Kanerva, J., Luotolahti, M. J., Salakoski, T., Ginter, F., & Laippala, V. (2017). Distributional semantics of the partitive A argument construction in Finnish. In M. Luodonpää-Manni, E. Penttilä, & J. Viimaranta (Eds.), *Empirical approaches to cognitive linguistics: Analysing real-life data* (pp. 25–48). Cambridge Scholars Publishing.

Kyröläinen, **A.-J.**, Porretta, V., & Järvikivi, J. (2017). The role of morphological verb constructions in processing Russian reflexive verbs. In M. Luodonpää-Manni, E. Penttilä, & J. Viimaranta (Eds.), *Empirical approaches to cognitive linguistics: Analysing real-life data* (pp. 261–289). Cambridge Scholars Publishing.

Kyröläinen, **A.-J.** (2015). From canon and monolith to clusters: A constructionist model of subjecthood in Russian. In M.-L. Helasvuo & T. Huumo (Eds.), *Subjects in constructions: Canonical and non-canonical* (pp. 253–291). John Benjamins.

Kyröläinen, **A.-J.** (2008). Low-frequency constructions and salience: A case study on Russian verbs of motion of dative impersonal construction type. In A. Mustajoki, M. V. Kopotev, L. A. Birjulin, & E. J. Protasova (Eds.), *Instrumentarij rusistiki: Korpusnye podhody* (pp. 176–197). Department of Slavonic and Baltic Languages and Literatures.

Peer-reviewed conference proceedings

Rönnqvist, S., **Kyröläinen**, **A.-J.**, Myntti, A., Ginter, F., & Laippala, V. (2022). Explaining classes through stable word attributions. *Findings of the Association for Computational Linguistics: ACL 2022*, 1063–1074. https://doi.org/10.18653/v1/2022.findings-acl.85

Porretta, V., **Kyröläinen**, **A.-J.**, van Rij, J., & Järvikivi, J. (2018). Visual world paradigm data: From preprocessing to nonlinear time-course analysis. In I. Czarnowski, R. J. Howlett, & L. C. Jain (Eds.), *Intelligent Decision Technologies 2017: Proceedings of the 9th KES International Conference on Intelligent Decision Technologies (KES-IDT 2017) – Part II* (pp. 268–277). Springer International Publishing. https://doi.org/10.1007/978-3-319-59424-8_25

Laippala, V., Luotolahti, M. J., **Kyröläinen**, **A.-J.**, Salakoski, T., & Ginter, F. (2017, May 22–24). Creating register sub-corpora for the Finnish Internet Parsebank. In J. Tiederman (Ed.), *Proceedings of the 21st Nordic conference on computational linguistics, NoDaLiDa* (pp. 152–161). Linköping University Electronic Press.

Kyröläinen, **A.-J.**, Porretta, V., & Järvikivi, J. (2015–August 21). The role of morpho-semantic information in processing Russian verbal aspect: Evidence from pupil dilation, fixation durations and reaction times. *Journal of Eye Movement Research: Abstracts of the 18th European Conference on Eye Movements*, *8*(4), 169–169. URL: https://doi.org/10.16910/jemr.8.4.1.

Monographs

Kyröläinen, **A.-J.** (2013). *Reflexive space: A constructionist model of the Russian reflexive marker*. Annales Universitatis Turkuensis B 363. URL: http://urn.fi/URN:ISBN:978-951-29-5394-3.

Non-peer-reviewed conference proceedings

Gnetov, D., & **Kyröläinen**, **A.-J.** (2019–July 5). Quantifications of morphological family size: Evidence from visual lexical decision task in Russian. *3rd International Conference "Neurobiology of Speech and Language "*. URL: http://cogneuro.spbu.ru/en/node/113.

Laippala, V., **Kyröläinen**, **A.-J.**, Ginter, F., Egbert, J., & Biber, D. (2019, July 22–26). *Generating online text types: A cluster analysis of predicted document embeddings*. The 10th International Corpus Linguistics Conference, Cardiff University. UK.

Laippala, V., **Kyröläinen**, **A.-J.**, Komppa, J., Vilkuna, M., Kalliokoski, J., & Ginter, F. (2016). Sentence-initial discourse relational devices in the Finnish Internet. In L. Degand, C. Dér, P. Furkó, & B. Webber (Eds.), *Conference handbook: TextLink – Structuring discourse in multilingual Europe. Second Action Conference* (pp. 70–73). Debrecen University Press.

Kyröläinen, **A.-J.**, & Geeraert, K. (2013, September 12–14). *The relationship between form and meaning: Modelling semantic densities of English monomorphemic verbs*. The 5th Conference on Quantitative Investigations in Theoretical Linguistics, The Katholieke Universiteit Leuven. Leuven, Belgium.

Presentations

Invited presentations

Kyröläinen, **A.-J.** (2020, December 7). *Affect and adulthood*. Experimental Studies of Language and Speech, Tomsk State University. Russia.

Kyröläinen, **A.-J.** (2019, May 10). *Language and lifelong learning*. Student Research Day, McMaster University. Canada.

Kyröläinen, **A.-J.** (2016a, January 11). *The role of expectations in processing event structures*. Utuling seminar, University of Turku. Finland.

Kyröläinen, **A.-J.** (2016b, May 24). *Semanttinen samankaltaisuus ja yllätyksellisyys aspektin prosessoinnissa* [*The role of semantic similarity and surprisal in processing aspect*]. Construal of Means and Time (COMET) seminar, University of Oulu. Finland.

Kyröläinen, **A.-J.** (2015, January 6). *Grammatical aspect*, Centre for Comparative Psycholinguistics, University of Alberta. Canada.

Kyröläinen, **A.-J.** (2013, May 23–24). *Lexical networks in action*, University of Tartu. Estonia.

Helasvuo, M.-L., & **Kyröläinen**, **A.-J.** (2011a, March 21). *Ilmisubjekti vai nolla? Syntaktisen variaation kontekstuaaliset piirteet tarkastelussa* [*Zero or overt? Syntactic variation through contextual features*]. Utuling, University of Turku. Finland.

Helasvuo, M.-L., & **Kyröläinen**, **A.-J.** (2011b, April 1–3). *Ilmisubjekti vai nolla? Syntaktisen variaation kontekstuaaliset piirteet tarkastelussa* [*Zero or overt? Syntactic variation through contextual features*]. Käyttöpohjaisia näkökulmia kielioppiin [Usage-Based Approaches to Grammar], University of Tartu. Estonia.

Kyröläinen, **A.-J.** (2011a, September 28). *Exploring structure with random forests and clustering: A constructionist model of the Russian reflexive marker* (-sja), University of Tartu. Estonia.

Kyröläinen, **A.-J.** (2011b, March 29). *Frequencies, distributions and statistical models*, The Russian Academy of Sciences. Russia.

Kyröläinen, **A.-J.** (2007, August 23–24). *Korpuslingvistiikasta ja korpuslingvistisistä metodeista* [*About corpus-linguistics and methods*]. "Aineistojen pauloissa", University of Turku. Finland.

Oral presentations

Kyröläinen, **A.-J.**, & Kuperman, V. (2022, November 17–20). *Social mobility profiles in older adulthood: Evidence from the Cognitive and Social Well-Being* (CoSoWELL) *project*. 63rd Annual Meeting of the Psychonomic Society, Boston, MA. USA.

Kyröläinen, **A.-J.**, Rönnqvist, S., Pyysalo, S., Ginter, F., & Laippala, V. (2022, September 9–11). *Towards universal tendencies in register variation*. The 15th International American Association for Corpus Linguistics Conference, Northern Arizona University. USA.

Skantsi, V., **Kyröläinen**, **A.-J.**, & Veronika, L. (2022, December 1–3). *The contribution of topics to register variation in web documents*, Jyväskylä. Finland.

Kuperman, V., & **Kyröläinen**, **A.-J.** (2021, November 4–7). *Temporal dynamics of emotional well-being and loneliness in older adults during the first year of the COVID-19 pandemic: Insights from the Cognitive and Social Well-Being* (CoSoWELL) *corpus*. The 62nd Annual Meeting of the Psychonomic Society, Virtual Conference.

Kyröläinen, **A.-J.**, & Kuperman, V. (2021, November 4–7). *Narratives of personal life events by older adults before and during the pandemic: First findings from the CoSoWELL corpus*. The 62nd Annual Meeting of the Psychonomic Society, Virtual Conference.

Wild, H., **Kyröläinen**, **A.-J.**, & Kuperman, V. (2021, July 13–16). *Using canonical correlation to explore differences in the distribution of literacy and numeracy skills*. Society for the Scientific Study of Reading Conference, Virtual Meeting.

Oralova, G., Boshra, R., Schmidtke, D., **Kyröläinen**, **A.-J.**, Connolly, J. F., & Kuperman, V. (2020, October 16–18). *The chicken or the egg? The timeline for lexical and semantic effects in derived word recognition using simultaneous recording of EEG and eye-tracking*. Words in the World (WoW) International Conference, Virtual Conference. Canada.

Wild, H., **Kyröläinen**, **A.-J.**, & Kuperman, V. (2020, October 16–18). *Just how weird is WEIRD literacy and numeracy? A comparative study of 32 countries*. Words in the World (WoW) International Conference, Virtual Conference.

Kyröläinen, **A.-J.**, Ginter, F., Bertram, R., & Kuperman, V. (2019, July 17–20). *Orthographic representations and orthographic competition: The role of spelling errors in language processing*. The 26th Annual Society for the Scientific Study of Reading Meeting, Toronto. Canada.

Laippala, V., **Kyröläinen**, **A.-J.**, Ginter, F., Egbert, J., & Biber, D. (2019, July 22–26). *Generating online text types: A cluster analysis of predicted document embeddings*. The 10th International Corpus Linguistics Conference, Cardiff University. UK.

Kyröläinen, **A.-J.**, & Kuperman, V. (2018a, September 25–28). *Forty years of experience and counting*. The 11th International Conference of the Mental Lexicon, University of Alberta. Canada.

Kyröläinen, **A.-J.**, & Kuperman, V. (2018b, February 26–27). *It's all about the base: Age effects on morphological processing*. Night Whites 2018. The 4th St. Petersburg Winter Workshop on Experimental Studies of Speech and Language, St. Petersburg. Russia.

Laippala, V., **Kyröläinen**, **A.-J.**, Ginter, F., Kanerva, J., Komppa, J., & Kalliokoski, J. (2018, March 19–21). *A bottom-up analysis of sentence-initial DRDs in the Finnish Internet*. TextLink2018 – Final Action Conference. Cross-Linguistic Discourse Annotation: applications and perspectives, Toulouse. France.

Kyröläinen, **A.-J.**, Vainio, S., & Hyönä, J. (2017, June 22–24). *The role of surprisal in processing grammatical aspect during reading*. International Morphological Processing Conference (MoProc), Scuola Internazionale Superiore di Studi Avanzati (SISSA). Italy.

Kyröläinen, **A.-J.**, Vainio, S., Luotolahti, M. J., Ginter, F., & Hyönä, J. (2017, July 10–14). *Aspects of expectation: The role of expectations in processing grammatical aspect during reading*. The 14th International Cognitive Linguistics Conference, University of Tartu. Estonia. URL: http://iclc14.ut.ee/avaleht.

Laippala, V., **Kyröläinen**, **A.-J.**, Kanerva, J., Luotolahti, M. J., Salakoski, T., & Ginter, F. (2017, March 14–16). *Finnish Internet Parsebank- A web-crawled corpus of Finnish with syntactic analyses*. The 2nd Conference of the association of Digital Humanities in the Nordic Countries (DHN), University of Gothenburg. Sweden.

Laippala, V., **Kyröläinen**, **A.-J.**, Vesanto, A., Lehti, L., Kallio, J., & Ginter, F. (2017, October 18). *Welfare bums or fellow humans: Discussing welfare provision to the poor in Suomi24 forum*. HELDIG Digital Humanities Summit, University of Helsinki. Finland.

Porretta, V., **Kyröläinen**, **A.-J.**, van Rij, J., & Järvikivi, J. (2017, June 21–23). *Visual world paradigm data: From preprocessing to nonlinear time-course analysis*, The 9th KES International Conference on Intelligent Decision Technologies (KES-IDT 2017) — Eye Movement Data Processing and Analysis. Vilamoura, Portugal.

Johansson, M., **Kyröläinen**, **A.-J.**, Ginter, F., Krizsán, A., & Laippala, V. (2016, May 25–27). *#Je suis Charlie –Anatomy of a Twitter discussion with mixed methods*. Kielitieteen päivät [Language Days], University of Oulu. Finland.

Kyröläinen, **A.-J.**, & Luotolahti, M. J. (2016, January 28–29). *A neural network model for selectional preference in simplex clauses*. IV soome-eesti grammatikakonverents [The 4th Finnish-Estonian Grammar Conference], University of Tartu. Estonia.

Kyröläinen, **A.-J.**, Luotolahti, M. J., & Ginter, F. (2016, March 10–11). *Smooth distributional semantic memory and selectional preference*. IV Finnish – Estonian / I – Hungarian Conference of Cognitive Linguistics, University of Turku. Finland.

Laippala, V., & **Kyröläinen**, **A.-J.** (2016, January 28–29). *Syntactic profiles of emoticons in the Finnish Internet*. IV soome-eesti grammatikakonverents [The 4th Finnish-Estonian Grammar Conference], University of Tartu. Estonia.

Nurminen, S., & **Kyröläinen**, **A.-J.** (2016, May 25–27). *Leksikaalinen aspekti suomen kielessä* [*Lexical aspect in Finnish*]. Kielitieteen päivät [Language days], University of Oulu. Finland.

Kyröläinen, **A.-J.**, Porretta, V., & Järvikivi, J. (2015a, June 18–20). *Pupillometry as a window to real time processing of grammatical aspect in Russian*. The 9th International Morphological Processing Conference, Potsdam. Germany.

Kyröläinen, **A.-J.**, Porretta, V., & Järvikivi, J. (2015b, September 28–29). *Pupillometry as a window to real time processing of morphologically complex verbs*. New Developments in the Quantitative Study of Languages, Symposium of the Linguistics Association of Finland (SKY), University of Helsinki. Finland.

Laippala, V., **Kyröläinen**, **A.-J.**, & Luotolahti, M. J. (2015, July 26–31). *Emoticons as indices of adaptability in the Finnish Internet*. The 14th International Pragmatics Conference, Antwerp. Belgium.

Lehti, L., Isosävi, J., Laippala, V., **Kyröläinen**, **A.-J.**, & Ginter, F. (2015, November 19–20). *Free speech doesn't mean careless talk! #iamnotcharlie - The development of multivoiced campaigns in Twitter following the January 2015 shootings in Paris*. The 1st International Conference: Approaches to Digital Discourse Analysis, Valencia. Spain.

Porretta, V., **Kyröläinen**, **A.-J.**, van Rij, J., & Järvikivi, J. (2015, September 28–29). *A step forward in the analysis of visual world eye-tracking data*. New Developments in the Quantitative Study of Languages, Symposium of the Linguistics Association of Finland (SKY), University of Helsinki. Finland.

Helasvuo, M.-L., & **Kyröläinen**, **A.-J.** (2013, December 8–9). *To choose a zero: Modeling subject expression in the 3rd person singular in Finnish conversation*. VISU kielioppisymposiumi [VISU Grammar Symposium], University of Turku. Finland.

Kyröläinen, **A.-J.** (2014, December 8–9). *The role of morphological verb constructions in processing grammatical aspect: Evidence from lexical decision and eye-tracking*. VISU kielioppisymposiumi [VISU Grammar Symposium], University of Turku. Finland.

Ruutma, M., **Kyröläinen**, **A.-J.**, Pilvik, M.-L., & Uiboaed, K. (2014, December 8–2104, December 9). *Puudest läbi ja üle piirkonna: Ambipositsioonide süntaktiline varieerumine eesti murretes*. VISU kielioppisymposiumi [VISU Grammar Symposium], University of Turku. Finland.

Geeraert, K., & **Kyröläinen**, **A.-J.** (2013, June 23–28). *Paradigmatic levelling in English: The influence of phonological neighbours*. The 12th International Cognitive Linguistics Conference, University of Alberta. Canada.

Porretta, V., **Kyröläinen**, **A.-J.**, & Tucker, B. V. (2013, June 23–28). *Influences on perceived foreign accentedness: Acoustic distances and lexical neighborhoods*. The 12th International Cognitive Linguistics Conference, University of Alberta. Canada.

Kyröläinen, **A.-J.** (2012a, June 4–8). *Being a dative subject: Patterns, contextual properties and usage*. Non-Canonically Case-Marked Subjects within and across Languages and Language Families, Reykjavik. Iceland.

Kyröläinen, **A.-J.** (2012b, August 29–September 1). *Multiple valency frames: Towards a density-based network model*. The 45th Annual Meeting of the Societas Linguistica Europaea, Stockholm. Sweden.

Kyröläinen, **A.-J.**, & Uiboaed, K. (2012, August 5–7). *Dialectal data visualization and statistical manipulation with ggmap-package in R*. AVML, York, UK.

Kyröläinen, **A.-J.** (2011, September 8–11). *Degrees and measurement of subjectivity: A logistic mixed-effects model for the Russian subjective experiencer construction*. The 44th Annual Meeting of the Societas Linguistica Europaea, Logroño. Spain.

Helasvuo, M.-L., & **Kyröläinen**, **A.-J.** (2010, December 10–11). *A random forest model for contextually induced person marking strategies* [Contexts of Language: How to Analyze Context?].

Finnish Cognitive Linguistics Association FiCLA, Contexts of Language: How to Analyze Context? University of Helsinki. Finland.

Kyröläinen, **A.-J.** (2010, September 3–5). *From canon and monolith to clusters: A constructionist model of subjecthood*. ICCG 6, Prague. Czech Republic.

Kyröläinen, **A.-J.**, & Leino, A. (2010, May 20–22). *Voiko subjektiivisuutta mitata?* [*Can you measure subjectivity?*] Kielitieteen päivät [Language days], University of Helsinki. Finland.

Kyröläinen, **A.-J.** (2009, October 15–17). *Subject, subjecthood and subjectivity*. Slavic Cognitive Linguistics Association (SCLA), Prague. Czech Republic.

Kyröläinen, **A.-J.** (2008a, October 1–4). *From variation to system*. Langnetin kielen elinkaari -seminaari [Langnet Life Span of Language Seminar], Athens. Greece.

Kyröläinen, **A.-J.** (2008b, October 17–18). *Kategoriat, polysemia ja granulariteetti* [*Categories, polysemy and granularity*]. Kieli keskellä kognitiota IV, FiCLAn laivaseminaari [seminar by the Finnish Cognitive Linguistics Association FiCLA]. Finland.

Kyröläinen, **A.-J.** (2008c, May 29–June 1). *Reflexive space: A layered model for the Russian reflexive marker*. Cognitive and Functional Perspectives on Dynamic Tendencies in Languages, University of Tartu. Estonia.

Kyröläinen, **A.-J.** (2008d, June 2). *Russian reflexive marker and the property domain*. Workshop in Cognitive Grammar, University of Tartu. Estonia.

Kyröläinen, **A.-J.** (2008e, March 26–30). *Russian reflexive marker: A layered model and the property domain*. Corpus Methods in Linguistics and Language Pedagogy, University of Chicago. USA.

Kyröläinen, **A.-J.** (2007a, October 12–13). *Matalan frekvenssin konstruktiot ja salienttisuus* [*Low frequency constructions and saliency*]. Kieli keskellä kognitiota III, FiCLAn laivaseminaari [seminar by the Finnish Cognitive Linguistics Association FiCLA]. Finland.

Kyröläinen, **A.-J.** (2007b, April 22–26). *Remarks on Russian reflexive verbs: Schemacity and prototype*. Cognitive Linguistics Seminar, University of Tartu. Estonia.

Kyröläinen, **A.-J.** (2007c, May 24–25). *Tapaus venäjän kielen refleksiiviverbi* [*Some aspects of the Russian reflexive verbs*]. Kielitieteen päivät [Language days], University of Oulu. Finland.

Kyröläinen, **A.-J.** (2006, December 11–14). *Subjektiivisen olotilan ilmaiseminen venäjän kielessä* [*Expressing the subjective state in Russian*]. Suomalais-virolainen kognitiivisen kielitieteen konferenssi [Finnish-Estonian Cognitive Linguistics Conference], Taagepera. Estonia.

Poster presentations

Kuperman, V., **Kyröläinen**, **A.-J.**, Gillet, J., & Sonnadara, R. (2020, December 7). *Optimism in time of the pandemic: Evidence from story-writing*. MIRA & Labarge Research Showcase, Hamilton. Canada.

Kyröläinen, **A.-J.**, & Kuperman, V. (2020, December 7). *Predicting loneliness*. MIRA & Labarge Research Showcase, Hamilton. Canada.

Oralova, G., Boshra, R., Schmidtke, D., **Kyröläinen**, **A.-J.**, Connolly, J. F., & Kuperman, V. (2020, November 19–22). *Individual differences in spelling proficiency as reflected by simultaneous EEG and eye-tracking*. The 61st Annual Meeting of the Psychonomic Society, Virtual Conference. Canada.

Gnetov, D., & **Kyröläinen**, **A.-J.** (2019, September 6–8). *Quantifications of morphological family size: Combining word embeddings with lexical decision in Russian*. The 25th Architectures and Mechanisms of Language Processing Conference, Moscow. Russia.

Kyröläinen, **A.-J.**, Gillet, J., Sonnadara, R., & Kuperman, V. (2019, December 12). *Reflections of loneliness in written life stories among older adults*. MIRA & Labarge Research Day, McMaster Innovation Park. Canada.

Kyröläinen, **A.-J.**, & Kuperman, V. (2019, November 14–17). *Looking towards the future: Written narratives predict loneliness in older adults*. The 60th Annual Meeting of the Psychonomic Society, Montreal. Canada.

Oralova, G., Boshra, R., **Kyröläinen**, **A.-J.**, Connolly, J., & Kuperman, V. (2019, July 17–20). *What an incorrect use of a character tells us about the organization of Chinese mental lexicon: A combined EEG & eye-tracking study*. The 26th Annual Society for the Scientific Study of Reading Meeting, Toronto. Canada.

Oralova, G., Boshra, R., Schmidtke, D. **Kyröläinen**, **A.-J.**, Connolly, J. F., & Kuperman, V. (2019, November 14–17). *The time course of lexical and semantic effects of complex word recognition: A combined EEG & eye-tracking study*. The 60th Annual Meeting of the Psychonomic Society, Montreal. Canada.

Porretta, V., **Kyröläinen**, **A.-J.**, Nassereddine, G., & Buchanan, L. (2019, November 14–17). *When 'bug' creeps into memory: False memories and foreign-accented speech*. The 60th Annual Meeting of the Psychonomic Society, Montreal. Canada.

Gnetov, D., & **Kyröläinen**, **A.-J.** (2018, October 1–5). *The effect of morphological family size on response latency in a lexical decision task*. Experimental Studies of Language and Speech: Bilingualism and Multilingualism (E-SoLaS), Tomsk State University. Russia.

Kyröläinen, **A.-J.**, Ginter, F., Bertram, R., & Kuperman, V. (2018, November 15–18). *Orthographic representation in flux: A large-scale analysis of spelling errors of Finnish nominal compounds*. The 59th Annual Meeting of the Psychonomic Society, New Orleans, LA. USA.

Kyröläinen, **A.-J.**, Vainio, S., & Hyönä, J. (2018, June 10–22). *Unfolding events: The role of syntactic information in predictive processing during reading*. The 1st International Workshop on Predictive Processing, San Sebastián. Spain.

Porretta, V., & **Kyröläinen**, **A.-J.** (2017, September 7–9). *Expanding competition space: The influence of foreign accentedness on lexical competition*. Architectures and Mechanisms of Language Processing (AMLaP), Lancaster University. UK.

Kyröläinen, **A.-J.**, Luotolahti, M. J., Hakala, K., & Ginter, F. (2016, August 15–26). *Modeling cloze probabilities and selectional preferences with neural networks*. DSALT: Distributional semantics and linguistic theory, Bolzano. Italy.

Kyröläinen, **A.-J.**, Porretta, V., & Järvikivi, J. (2015, August 16–21). *The role of morpho-semantic information in processing Russian verbal aspect: Evidence from pupil dilation, fixation durations and reaction times*. XVIII European Conference on Eye Movements, Vienna. Austria.

Kyröläinen, **A.-J.** (2011, March 24–26). *Building conceptual spaces: Modeling the Russian reflexive constructions* (-sja) *with random forests and clustering*. Constructional and lexical semantic approaches to Russian, The Russian Academy of Sciences. Russia.

TEACHING EXPERIENCE

University courses

2014	*Semantics and Semantic Relations* (FLEE.02.172), University of Tartu, Estonia, February 10–June 02
	Introduction to Statistical Analysis of Linguistic Data using R, (FLEE.02.173), University of Tartu, Estonia, February 13–June 05
	Introduction to Data Visualization using R (FLEE.02.174), University of Tartu, Estonia, March 14–May 30
2013	*Introduction to R in Linguistic Applications* (FLEE.08.135), University of Tartu, Estonia, November 18 –December 15
2010	*Integrum and Russian electronic databases*, University of Turku, Finland

Invited courses/workshops

2021	*Psycholinguistic applications of NLP methods for analyzing free-form texts*, Spring Training in Experimental Psycholinguistics at the Centre for Comparative Psycholinguistics (STEP@CCP 2021), University of Alberta, Canada, May 19–21
2020	*Introduction to NLP and Corpus Linguistics*, Experimental Studies of Language and Speech, Tomsk State University, Russia, December 07–11
2019	*Introduction to Linear Mixed-Effects Modeling in R* (co-instructed with Vincent Porretta), Spring Training in Experimental Psycholinguistics at the Centre for Comparative Psycholinguistics (STEP@CCP 2019), University of Alberta, Canada, May 13–18
2019	*Introduction to R* (co-instructed with Vincent Porretta), Spring Training in Experimental Psycholinguistics at the Centre for Comparative Psycholinguistics (STEP@CCP 2019), University of Alberta, Canada, May 13–18
2018	*Introduction to Linear Mixed-Effects Modeling in R* (co-instructed with Vincent Porretta), Spring Training in Experimental Psycholinguistics at the Centre for Comparative Psycholinguistics (STEP@CCP 2018), University of Alberta, Canada, May 14–19
2017	*Advanced Statistical Workshop: Generalized Additive Mixed Models* (co-instructed with Vincent Porretta), Spring Training in Experimental Psycholinguistics at the Centre for Comparative Psycholinguistics (STEP@CCP 2017), University of Alberta, Canada, May 15–20
	Linear Mixed Effects Modeling and Data Visualization (co-instructed with Vincent Porretta), Spring Training in Experimental Psycholinguistics at the Centre for Comparative Psycholinguistics (STEP@CCP 2017), University of Alberta, Canada, May 15–20
	Experimental studies of language and speech: Experimental designs and implementation (co-instructed with Seppo Vainio), Tomsk State University, Russia, April 03–08
2016	*Experimental studies of language and speech (E-Solas): Corpus and mathematical methods in linguistic studies*, Tomsk State University, Russia, October 12–22
2012	*Data Visualization with R and ggplot2*, University of Tartu, Finland, September 28
	Introduction to R and Linear Models, University of Turku, Finland, August 23–24
2011	*Creating and Using Databases.* A methodological course for researchers, University of Turku, Finland, April 11–13

Software

2019	**Kyröläinen**, **A.-J.**, Porretta, V., van Rij, J., & Järvikivi, J. (2019). PupilPre: Tools for preprocessing pupil data [Version 0.6.0, updated 2019-08-06]. URL: https://CRAN.R-project.org/package=PupilPre

2016   Porretta, V., **Kyröläinen**, **A.-J.**, van Rij, J., & Järvikivi, J. (2016). VWPre: Tools for preprocessing visual world data [Version 1.2.0, updated 2019-07-09]. URL: https: //CRAN.R-project.org/package=VWPre

GRANTS AND AWARDS

2020	*Labarge Centre for Mobility in Aging COVID-19 Grant*: Relieving social isolation and loneliness through storytelling at the time of a pandemic, PI: Dr. Victor Kuperman, $25,000
2020	*Renewal of AGE-WELL Graduate Student and Postdoctoral Award in Technology and Aging*: Aging and narratives: Linguistic markers of social well-being in late adulthood, $15,000
2019	*SSHRC: Insight Development Grant*: Speaking of age: Linguistic markers of cognitive, emotional and social wellbeing in late adulthood, funding period: June 01 2019–May 31 2021, $58,942
2019	*AGE-WELL Graduate Student and Postdoctoral Award in Technology and Aging*: Aging and narratives: Linguistic markers of social well-being in late adulthood, $20,000
2019	*MIRA/LCMA Catalyst Grant*: Collaborator in Writing of age: Linguistic markers of cognitive, emotional and social well-being among older adults, PI: Dr. Victor Kuperman, funding period: August 1 2019–July 31 2020, $40,000
2018	*SSHRC Explore – Standard Research and Research Creation Grant*, Lifelong learning and experience across the life span, funding period: January 1 2019–December 31 2020, $5,928
2017	*Turun Yliopistosäätiö* [*Turku University Foundation*]: Travel grant, ICLC-14 Estonia, 500€
2017	*Erasmus+*: Staff Mobility for Teaching, Tomsk State University, Tomsk, Russia, 1,606€
2015	*The Nordic-Russian Cooperation Programme in Education and Research*: Collaborator in Networking and mobility of students (MA, PhD) and academic staff of partner institutions in Russia, Finland and Norway in the area of cognitive and experimental linguistics (NCM-RU-2015/10045), PI: Dr. Jukka Hyönä, 42,340€
	Academy of Finland: Collaborator in Construal of Means and Time (COMET), PI: Dr. Tuomas Huumo, funding period: 2015–2019, 346,494€
2013	*DoRa grant*: A research grant for visiting PhD-student in Estonia: University of Tartu, 2,700€
2010	*DoRa grant*: A research grant for visiting PhD-student in Estonia: University of Tartu, 2,700€
2009	*Emil Aaltosen Säätiö* [*Emil Aaltonen Foundation*]: Travel grant, LSA, Berkeley, 2,800€
2009	*Turun Yliopistosäätiö* [*Turku University Foundation*]: Travel grant, LSA, Berkeley, 2,500€
2007	*Langnet: The Finnish National Graduate School for Linguistics*: A four year full time funding for Ph.D. student
2006	*Turun Yliopistosäätiö* [*Turku University Foundation*]: Research grant, 7,400€

SERVICE

Administrative

2016	**Slavistipiiri**: Board Member of Suomen slavistipiiri (Society of Finnish Slavists)
2008–2013	**SKY**: Board Member of SKY (The Linguistic Association of Finland)
2009–2011	**FiCLA**: Board Member of FiCLA (Finnish Cognitive Linguistics Association)
2009–2010	**Langnet**: PhD-Student Board Member of Langnet (Finnish doctoral program in language studies)

Academic

Ad hoc journal reviewer for: *Behavior Research Methods, Cognitive Science, Corpus Linguistics and Linguistic Theory, SKY Journal of Linguistics, Journal of Linguistics* and *Journal of Estonian and Finno-Ugric Linguistics*

Ad hoc conference reviewer for: *The International Cognitive Linguistics Conference, The International Conference on the Mental Lexicon, New Developments in the Quantitative Study of Languages* and *Mapping Methods: Approaches to Language Studies. Conference on Methods in Linguistics*

Ad hoc evaluator: Kravchenko, E. (2013). *Asuinmaan kielen vaikutus äidinkieleen: Suomen kielen vaikutus suomenvenäläisten tuottamaan venäjän kieleen* [*The influence of country of residence on native language: The influence of Finnish on Finnish Russian speakers' productions in Russian* (Master's thesis). University of Turku. Turku

Supervisor

2015–2019	**Ann Siiman** (PhD-thesis, University of Tartu, Estonia): *Vormikasutuse varieerumine ning selle põhjused osastava ja sisseütleva käände näitel* [Form usage variation of the partitive and illative case and reasons for it]
2014	**Mirjam Ruutma** (honor's thesis, University of Tartu, Estonia): *Mõnede ambipositsioonide areaalne varieerumine eesti murretes* [Dialectal variation of Estonian ambipositions]

Membership in organizing committee

2016	*SWAET: The Scandinavian Workshop on Applied Eye Tracking*, June 19–21, Turku
	Ajan kielioppia -työpaja (Grammar of Time Workshop), May 25.–27, Oulu
2011	*SKY: Variation and Typology: New Trends in Syntactic Research*, August 25–27, Helsinki
2010	*SKY: Re-Thinking Synonymy: Semantic Sameness and Similarity in Languages and Their Description*, October 28–30, Helsinki

| 2009 | *FiCLA: II Virolais-suomalaisen kognitiivisen kielitieteen konferenssi* [The Second Estonian-Finnish Cognitive Linguistics Conference], December 10–12, Kiljava |
| | *SKY: 'Case in and across Languages'*, August 27–29, Helsinki |

Media coverage and community outreach

2021	*Writing Across Generations*, a collaboration with Retired and Senior Volunteer Program (RSVP) of Spokane to promote co-journaling between older adults and adolescents
2020	*Interview with Hamilton Spectator*, https://www.thespec.com/news/hamilton-region/2020/08/12/non-profit-helps-local-seniors-learn-tech-skills-for-surviving-in-a-pandemic.html
2020	*Research spotlight by AGE-WELL*, https://agewell-nce.ca/archives/10569

LANGUAGE ABILITIES

Finnish (native), English (fluent), Russian (fluent), Swedish (fluent), German (reading ability), Polish (reading ability), and Estonian (reading ability)

RESEARCH EXPERIENCE

Research methods

Behavioral (lexical decision, accuracy, elicitation)
Computational/corpus linguistics (quantitative text analysis, tagging, parsing)
Eye-tracking (sentence reading, pupillometry, Visual World Paradigm)

Statistical methods and machine learning

Linear mixed-effects regression
Generalized linear mixed-effects regression
Generalized additive mixed modeling
Autoencoder-based neural networks
Support vector machines
Topic modeling
Random forests and boosting
Clustering

Software and programming languages

R for Statistical Computing, Git, SR Research Experiment Builder/Data
Viewer, LaTeX, Markdown, Python, HTML, Shiny