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Self-evaluation: Research in Linguistics

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Present situation

The department of Linguistics, including general linguistics and phonetics, has at the present time 31 employees including 5 professors, one of whom is on leave, 2 university lecturers, 2 visiting professors, 12 researchers financed with external grants, and 12 doctoral candidates. Professors have 50% financed faculty research time, including 5% for Ph.D. student supervision and education; university lecturers have 20% (25% if 'docent') research time in their positions and doctoral students 100%. See Table 1 for an overview. In addition to the persons mentioned in the table, a number of student research assistants are employed for shorter periods of time in externally financed research projects.

| PERSONNEL LINGUISTICS 2013 | | | | |
|-----------------------------------|--|--|-------------------------------------|------------------------------|
| Name | Position (Appointment %) | % Research in Position | % Externally Funded Research | Teaching/ Other tasks |
| Felix Ahlner | Doctoral Candidate (100%) | 100 | 75 | |
| Gilbert Ambrazaitis | Researcher (75%) | | 72 | 3 |
| Mats André | Researcher (75%) | | 75 | |
| Johan Blomberg | Doctoral candidate (100%) | 100 | | |
| Niclas Burenhult | Researcher (Docent) (100%) | | 87 | 13 |
| Gerd Carling | Researcher (Docent) (50%)/Univ. Lecturer (50%) | 12.5 | 50 | 37.5 |
| Sandra Debreslioska | Doctoral candidate (100%) | 100 | | |
| Johan Frid | Researcher (100%) | | 100 | |
| Sabine Gossele | Doctoral candidate (100%) | 100 | | |
| Marianne Gullberg | Professor (+ Director Humlab) (100%) | 45+5* | | 50 |
| Arthur Holmer | Univ. lecturer (Docent) (100%) | 25 (10) ⁺ | 60 | 30 |
| Merle Horne | Professor (100%) | 45+5* | 45 | 5 |
| Gisela Håkansson | Professor (100%) | 45+5* | 12 | 38 |
| Victoria Johansson | Researcher (100%) | | 68 | 32 |
| Anastasia Karlsson | Researcher (100%) | | 50 | 50 |
| Nicole Kruspe | Researcher (80%) | | 80 | |
| Simone Löhndorf | Doctoral candidate (100%) | 100 | 100 | |
| Frida Mårtensson | Doctoral candidate (100%) | 100 | | |
| Mikael Roll | Researcher (Docent) (100%) | | 86 | 14 |
| Susanne Schötz | Researcher (Docent) (100%) | | 75 | 25 |
| Yury Shtyrov | Visiting professor (50%) | | 50 | |
| Chris Sinha | Visiting professor (75%) | | 75 | |
| Teresa Strandviken | Doctoral candidate (100%) | 100 | | |
| Sven Strömquist | Professor (100%) | On leave: assistant vice-chancellor for research | | |
| Axel Svahn | Doctoral candidate (100%) | 100 | | |
| Vi Than Son | Doctoral candidate (100%) | 100 | | |
| Mechtild Tronnier | Univ. lecturer (100%) | 20 | 5 | 75 |
| Marcus Uneson | Doctoral candidate (75%) | 75 | | |
| Joost van de Weijer | Researcher (50%) | | 37 | 13 |
| Caroline Willners | Researcher (30%) | | 30 | |
| Jordan Zlatev | Professor (100%) | 45+5* | 33 | 17 |

Table 1. Overview of personnel at the department of linguistics, 2013.

⁺ Current year (2013)

* Doctoral student supervision/education

In the self-evaluation of research that was made for RQ08, it was noted that the department was awarded approximately 4.5 million SEK/year by state financing agencies (Swedish Research Council, Riksbankens Jubileumsfond, Swedish Council for Working Life and Social Research). At the present time, this figure has almost quadrupled. During the current year (2013), in addition to faculty financing (3.2 million SEK), approximately 17 million SEK from external projects are used to finance research in linguistics. It should also be pointed out that since 2012, grants from the Swedish Research Council (VR) cover most of the project's overhead costs as opposed to previous years when ca. 35% of such costs were covered by VR-grants. The amount of external funding increased in 2009 when the two large interdisciplinary projects (see below) that had been applied for at the time of RQ08 were granted. Moreover, since RQ08, several new funding agencies, including the ERC (European Research Council), and the Wallenberg Foundation grant schemes have increased the sources for research funding. Table 2 summarizes the amount of external funding to linguistics since 2008. A more detailed overview of the individual grants is given in Appendix 1.

| External research funding since RQ08 (in million SEK) | | | | | |
|--|------|------|------|-------|--------|
| 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 4.6 | 5.6 | 8.8 | 11.7 | 16.5* | 17.0** |

Table 2. Overview of external research funding to linguistics since RQ08.

* Approximately 0.5 million SEK is increased funding by VR to cover overhead costs.

** Approximately 1 million SEK is increased funding by VR to cover overhead costs

The core financing from the HT-faculties has not increased since 2008. Table 3 summarizes this core funding for research in positions. Figures from 2010 and 2011 are not available since the faculty financing for research was not distributed to individual disciplines by the Center for Languages and Literature during those years. The decrease in core funding is associated with the fact that the department has one less professor position and the fact that there are no longer any *forskarassistent* positions at the university.

| Core financing for research from the faculty (in million SEK) | | | |
|--|------|------|------|
| 2008 | 2009 | 2012 | 2013 |
| 4.4 | 3.4 | 3.1 | 3.2 |

Table 3. Overview of core research funding from the HT faculties to linguistics since RQ08.

RQ08 and linguistics

RQ08 was a university-wide evaluation of research, and as such, did not focus on individual departments. It did, however, have an impact on the direction of faculty-wide research oriented investments. The outcome of RQ-08 was very important for underlining the crucial need for support to research infrastructure. As such, the Humanities Laboratory, an important resource for researchers in linguistics received more support. Moreover, the importance of improving the publication outlets for researchers in the humanities led the HT-faculties to take an initiative to survey the publication outlets used by HT-researchers, and workshops have been organized to deal with ways to increase the number and quality of international publications. At the Center level, the leadership has also recognized the need to improve the information on research on the center's home-page. In addition, research service to individuals applying for research grants has been introduced during the past three years. This service takes the form of information seminars, funding for time needed to write grant proposals and opportunities to have grant application drafts reviewed by senior researchers.

Relation to situation at the time of RQ08

Since the time of the research evaluation in 2008, the profile of the department of linguistics (including general linguistics and phonetics) has both retained the areas that were represented at the time of RQ08 and also expanded considerably in terms of the number of research areas and the number of externally financed projects. The number of professors has not, however, increased. In fact, at the present time, due to the fact that Sven Strömqvist is on leave to function as assistant vice-chancellor for research, the department has one less professor than in 2008. Moreover, there are no longer any *forskarassistent* ≈ 'assistant professor' positions at the department.

The two large project applications mentioned in the 2008 self-evaluation (the Linneaus Center Thinking in Time: Cognition, Communication and Learning (CCL), and Centre for Cognitive Semiotics (CCS)) received funding from the Swedish Research Council (Linnaeus grant) and the Riksbankens Jubileumsfond, respectively. Both projects are interdisciplinary projects with large groups of researchers from several departments. CCL is focused on interdisciplinary research which will lead to a better understanding of how language and cognitive processes interact in on-line processing and learning in typical and atypical populations. CCS is devoted to establishing an emerging transdisciplinary field dedicated to the evolution, development and processing of meaning systems, combining theories and methods from linguistics, semiotics and cognitive science.

In 2011, the HT-faculties became host of an ERC-Starting Grant awarded to Niclas Burenhult who was appointed docent in 2009. It is the only Starting Grant awarded to humanities in Sweden so far. Although formally placed at the Humanities Laboratory, the project-work has strong connections to the activities at the linguistics dept. since the project is closely related to work in linguistic typology that has had a long tradition at the department. Jan-Olof Svantesson, who retired in 2009, continues to play an important role in the typological research on languages in South-East Asia.

Sven Strömqvist has been on leave from his professorship since 2009 to act as Lund University's assistant vice-chancellor for research. The subsequent recruitment of Marianne Gullberg as professor of psycholinguistics has been important in maintaining the level of research in language processing and in developing the broad profile of research in linguistics to include multimodal acquisition and bilingualism studies. Marianne Gullberg has also taken on the role as director of the Humanities Laboratory after Sven Strömqvist. That Marianne Gullberg has recently been awarded a Wallenberg Scholar appointment to investigate embodied bilingualism is very prestigious for linguistics and the rest of the faculty.

In addition to these new projects and appointments, other interdisciplinary efforts have developed since RQ08. In 2010, the HT-faculties initiated the Humanities and Medicine (HuMe) project whose goal is to increase collaboration between humanities and medical researchers. Merle Horne, along with Mikael Roll, who was appointed docent in 2012, have initiated several collaborative research activities involving researchers at HT and the medical faculty. Visiting professor Yury Shtyrov (Medical Research Council, Cambridge) is involved in efforts to expand the interdisciplinary studies on language processing in the brain using various brain imaging techniques.

Phonetics suffered a great loss in 2010 with the untimely death of professor Gösta Bruce whose extensive internationally well-known work on prosody, including both theoretical modelling and experimental testing has been very influential in maintaining Lund's reputation as an important center for prosody research. The loss of Bruce left phonetics without a research leader and without resources to supervise doctoral students. The appointment of Susanne Schötz as docent in 2013 is therefore important for the continued development of the research in phonetics. The junior researchers in phonetics, Gilbert Ambrazaitis, Johan Frid, Anastasia Karlsson, and Susanne Schötz have been very successful in obtaining continued funding for research in prosody, one of the areas of research in linguistics that was mentioned in RQ08.

Other areas of research that were mentioned in RQ08 have continued to develop at linguistics and other departments. Language acquisition where Gisela Håkansson, and Marianne Gullberg have made important contributions is an area of investigation that has experienced an expansion at the Center for Language and Literature. The Humanities Laboratory is also involved in research on language acquisition using modern technology to investigate both first and second language learning.

Psycholinguistics has continued to receive research funding since RQ08. The work by Victoria Johansson and the group working on writing continues to develop. One member of the writing group,

Åsa Wengelin has obtained a university lecturer position at the University of Gothenburg since 2008, but continues to cooperate with the Lund writing researchers.

The area of neurolinguistics is also continuing to expand in the direction of medical applications. Merle Horne and Mikael Roll are collaborating with researchers in medical imaging and neurology in developing research at the interface between linguistics, neurology, and medical technology. Neurolinguistic work on language processing in aphasia is represented in Frida Mårtensson's doctoral research on lexical semantic processing.

The area of cognitive semantics has also continued to develop in the work of Jordan Zlatev who was promoted to professor in 2012. The interdisciplinary project CCS has led to a broadening of Zlatev's group's research into the new field of cognitive semiotics involving other areas of meaning: human cognitive and communicative evolution, childrens' semiotic development and cognitive-semiotic typology.

In conjunction with research in the CCS-project, a new field of typological investigation has developed, which links domains both within linguistics (e.g. grammar, information structure and prosody; word class categories and word order) across discipline boundaries (e.g. language structure and music; semantics and ecological niche). In addition to deepening the collaboration between phonetics and general linguistics, these new initiatives involve interdisciplinary collaboration, resulting in research networks comprising linguistics, cognitive science, archaeology, human ecology and musicology. Data from a wide variety of languages are currently being collected, leading to increased documentation of less well-known languages, as well as digitization and compilation of multimodal databases. Much of this work is being done in collaboration with the Humanities Laboratory. The work involves: Felix Ahlner, Niclas Burenhult, Gerd Carling, Arthur Holmer, Anastasia Karlsson, Nicole Kruspe, Chris Sinha, Axel Svahn, Joost van de Weijer. This developing area of typological language documentation combines the linguistic department's rich legacy materials on Kammu language and culture with that of other language heritages. The state-of-the-art digital platform Repository and Workspace for Austroasiatic Intangible Heritage will allow new collections of Austroasiatic languages and serve as an important resource for researchers, students, as well as the Austroasiatic speech communities themselves.

Since the later part of 2008, Caroline Willners has had a position (half-time) at Oribi AB, a language technology company developing reading and writing aid for people with reading and writing difficulties. She has, however, continued to have collaboration on research in the area of lexical semantics.

The research areas mentioned in the department's self-evaluation in connection with RQ08 that were considered as promising included: neurophysiological studies of language and speech processing, the reading process, the writing process, the evolution of language and speech, and sociolinguistics. All of these areas have indeed experienced an expansion as a consequence of the large grants to CCL (VR) and CCS (RJ), the HuMe project, as well as other VR, RJ, and Wallenberg grants to individual researchers.

In relation to other departments of linguistics in Sweden, Lund profiles itself as a department that has a very broad range of research interests, but also with expert competence in several of these areas. The list of the research projects in Appendix 1 provides evidence for this breadth. Lund has for many years also been a leading department for research in a number of domains. Prosody constitutes one of these areas that continue to be strong in Lund. Since RQ08, research in prosody has been extended to involve applications in the areas of speech technology, typology as well as neurolinguistics and brain imaging research involving the processing of prosody at the interface with grammar. Language typology is another field of research that Lund has long been well-known for and in recent years, the interest in the associated area of language documentation has led to a new surge of research in this area. Lund has also profiled itself in the area of language processing, in particular reading and writing, and its psycholinguistic profile has been strengthened by the recruitment of M. Gullberg as professor in the field. Language acquisition, particularly second-language acquisition is an area that continues to constitute one of Lund's expert areas. Sociolinguistics, in particular minority languages such as Romany constitute another area where Lund is well-recognized. Cognitive semantics is a further area where Lund has a clear profile, in particular as regards lexical semantics.

Linguistics in Lund is also attractive for international researchers. At the present time, the department has two invited professors collaborating in work on language and culture (Chris Sinha), as well as within the area of the neuroscience of language processing (Yury Shtyrov).

Publication patterns

English is by far the major language of publication for researchers in linguistics. According to LUP (Lund University Publications), the most common form of publication in linguistics up until 2012 has been journal articles and conference proceedings. The number of articles published in these outlets has not changed significantly from the time of RQ08. However, the number of journal articles published in international journals with relatively high impact factors has in fact increased. The number of publications as book chapters has also shown an increase over the years since RQ08. In 2012, the number of book chapters was equal to the number of journal articles. The total number of publications has increased since 2008, with a noticeable increase in 2012. Due to the natural lag between the time of procuring external research funds and the time of publication of research results, it can be expected that the number of publications will continue to increase in the coming years. Table 4 presents an overview of the publication pattern in linguistics since 2008. A break-down into journals that linguistics researchers published in, publishers of book chapters written by researchers, as well as publishers of books published between 2008 and 2012 can be found in Appendix 2.

| Publication form | 2008 | 2009 | 2010 | 2011 | 2012 |
|------------------|-----------|-----------|-----------|-----------|-----------|
| Journal article | 14 | 16 | 20 | 17 | 19 |
| Conference paper | 13 | 13 | 6 | 15 | 21 |
| Book chapter | 4 | 6 | 10 | 9 | 18 |
| Book editor | 2 | 3 | 4 | 1 | 4 |
| Book | 1 | 1 | 4 | | 2 |
| Review | | 1 | | 1 | 1 |
| Report | | | 1 | 1 | 2 |
| Working paper | 7 | | | | |
| TOTAL | 41 | 40 | 45 | 44 | 67 |

Table 4. Overview of the publication pattern in linguistics since 2008.

Representative publications from linguistics

Following are 15 publications submitted by linguistics researchers that represent the breadth and quality of research activity at the department:

Ambrazaitis, G., Frid, J., Bruce, G. 2013. Revisiting South and Central Swedish intonation from a comparative and functional perspective. In O. Niebuhr (Ed.), *Understanding Prosody – The role of context, function, and communication*, 138-158. DeGruyter.

This invited paper reflects both the continuation and renewal of one of the major research traditions in phonetics in Lund: modeling word and sentence prosody in varieties of Swedish. Anchored in the dialect typology of the Lund Model, it recognizes a previously unstudied dimension of discourse-related functions of prosody: intonational substance-function relations reminiscent of non-tonal Germanic languages.

Carling, G. 2009. *A dictionary and thesaurus of Tocharian A. Vol 1. Letters a-j*. In collaboration with Georges-Jean Pinault and Werner Winter. Wiesbaden: Harrassowitz.

This work sets a new standard for lexica within tocharology, and is a comprehensive lexicon and thesaurus of Tocharian A. It is based on a digital corpus and contains references to 623 earlier unpublished textfragments. The book has received several positive reviews in 8 journals. G. Carling has also been awarded a prize for it from Institut de France, Paris.

Foolen, A., Luedke, U., Racine, T. and Zlatev, J. (Eds.) 2012. *Moving ourselves, moving others. Motion and emotion in intersubjectivity, consciousness and language*. Amsterdam: Benjamins.

The fundamentally interpersonal nature of mind and language has recently received due attention, but the key role of (e)motion in this context has remained something of a blind spot. The volume rectifies this gap by gathering contributions from leading philosophers, psychologists and linguists working in the area. It is “framed” by an introducing prologue by Zlatev and a summarizing epilogue by Colwyn Trevarthen.

Frid, J., Schötz, S. & Löfqvist, A. 2011. Functional data analysis of lip movements: repetition variability as a function of age. In *Proceedings of the 17th International Congress of Phonetic Sciences (ICPhS XVII)*, Hong Kong,

August 17-21, 2011.

The article presents results from a study on variability in lip-movements in speech using articulography and functional data-analysis, a flexible and powerful method for analysing data which varies over time. The results clearly show that variability in lip-movement decreases in older speakers and thus the study makes a contribution to the area of speech production.

Holmer, A. 2012. Evidence from Formosan for a unified theory of adverb ordering. *Lingua* 122, 902-921.

This study uses data from Formosan adverbial verb constructions to prove that Cinque's (1999) and Ernst's (2002) analyses of the adverb placement are not mutually contradictory, but simply address different issues (clause structure vs. linear ordering). This is a step towards unifying generative and functionalist theories of grammar.

Håkansson, G. & Norrby, C. 2010. Environmental Influence on Language Acquisition: Comparing Second and Foreign Language Acquisition of Swedish. *Language Learning*, 60, 628-650.

This paper is the first to directly compare second and foreign language learning. The participants (in Malmö and Melbourne) are studied longitudinally over a year. The results show that all learners go through the same stages in their development of grammar, whereas there are substantial differences between the groups in lexical and pragmatic development.

Johansson, V. 2009. *Developmental aspects of text production in writing and speech*. Travaux de L'Institut de Linguistique de Lund, 48. PhD Thesis.

This publication describes the linguistic development in writing and speaking from around the age of 10. It contains important methodological development on how to collect and analyze data from keystroke logging programs. It also describes how linguistic development cannot always be studied in one modality or one genre only, but must be looked at from many perspectives. The thesis has been downloaded more than 1480 times since 2009.

Johansson, R., Wengelin, Å., Johansson, V. & Holmqvist, K. 2010. Looking at the keyboard or the monitor: relationship with text production processes. *Reading and writing*, 23, 835-851.

This publication describes what can be revealed when keystroke logging is combined with eye-tracking technology. This research group was probably the first in the world to do so. Here, the relation between writers that look at the keyboard and writers that look at the monitor during text production is examined, and the relationship between language production and process such as reading is described.

Jones, S., Murphy, M., Paradis, C. & Willners, C. 2012. *Antonyms in English: Construals, constructions and canonicity*. Cambridge: Cambridge University Press.

This book circles around antonymy and summarizes years of research on antonymy in English and many other languages from many different perspectives: in text, psycholinguistic studies, acquisition and theoretical frameworks.

Karlsson, A., House, D. & Svantesson, J. 2012. Intonation adapts to lexical tone: The case of Kammu. *Phonetica*, 69, 28-47.

Results of this study show how intonation is affected by lexical tones. The study is performed by thoughtful comparison of tonal and non-tonal dialects of Kammu, an Austroasiatic language. This paper contributes to prosodic theory, prosodic typology as well as the phonology of tone languages.

Levinson, Stephen C. & Burenhult, N. 2009. Semplates: a new concept in lexical semantics? *Language* 85, 153-174.

The study introduces a new theoretical concept within lexical semantics: 'semplates'. Semplates consist of an abstract structure or template, which is recurrently instantiated in a number of lexical sets, typically of different form classes. A number of examples from different language families are adduced, and generalizations made about their nature.

Roll, M., Horne, M. & Lindgren, M., 2010. Word accents and morphology. ERPs of Swedish word processing. *Brain Research* 1330, 114-123.

This is the first Event Related Potential study on the processing of Swedish word accents and the first study testing the neurolinguistic reality behind models of Swedish prosody developed by theoreticians like G. Bruce and T. Riad. The results of the study have led to a new project and a new set of fMRI-studies whose goal is to localize word accent processing in the brain.

Roll, M., Lindgren, M., Alter, K. & Horne, M. 2012. Time-driven effects on parsing during reading. *Brain and Language*, 121(3), 267–272.

This article offers a novel perspective on how working memory constraints can influence sentence processing. Whereas previous research has concentrated on the number of referents that can be held in working memory, the results of this study indicate that time constraints on working memory influence sentence processing in terms of prosodic phrase duration.

Schötz, S. & Eklund, R. 2011. A comparative acoustic analysis of purring in four cats. *Proceedings of Fonetik 2011*, Speech, Music and Hearing, KTH, Stockholm, *TMH-QPSR*, 51, 9-12.

This paper reports results from a comparative analysis of purring in four domestic cats. An acoustic analysis describes sound pressure level, duration, number of cycles and fundamental frequency for egressive and ingressive phases. Significant individual differences are found between the four cats in several respects.

Veroude, K., Norris, D. G., Shumskaya, E., Gullberg, M. & Indefrey, P. 2010. Functional connectivity between brain regions involved in learning words of a new language. *Brain and Language*, 113(1), 21-27.

This paper targets the earliest stages/minutes of L2 acquisition ('fast mapping'), examining the behavioural and neurocognitive effects of multimodal language input (speech, gestures) in adult speakers. The results indicate remarkable plasticity in the adult brain in response to language learning, but also pre-existing differences among learners with differential success.

Linguistics and the 3rd task

Researchers at the linguistics department have been very active in communicating their research to parties outside the university. Table 5 summarizes 3rd task-activities during 2012:

| Outreaching activities 2012 | |
|--|--|
| Writing a upper secondary school text-book for the new course <i>Språket, människan och världen</i> , to be published by Studentlitteratur during 2013 | Majority of the department's researchers led by V. Johansson, G. Carling & A. Holmer |
| Organization of Lingolympiaden (high-school competition in linguistics) | A. Holmer |
| Talks at Lingolympiaden | M. André, G. Carling |
| Organized courses and gave talks at Aphasia-organisations in Malmö and Helsingborg | M. Horne, M. Roll, F. Mårtensson |
| Talks on the Swedish Romany culture and language | G. Carling |
| Talk at HT-dagarna | N. Burenhult, M. Gullberg, V. Johansson |
| Talks at Skolporten, Svenska Kyrkan in Copenhagen, Torstén Husén upper secondary school | G. Håkansson |
| Kunskapskanalen: panel discussion ADVENTURE conference | G. Håkansson |
| Interviewed in the radio program "Språket i P1" | G. Håkansson |
| Participation in research circle on language, language development, writing and reading with elementary school teachers in Eastern Lund | G. Håkansson, V. Johansson |
| Interviewed by <i>Språk</i> -magazine | V. Johansson |
| Invited speaker at Teacher Education Days in Lund and in Umeå (Språkfestivalen 2012); Talks for teachers at S:t Petri Gymnasieskola, Malmö | V. Johansson |
| Discovery Science TV series "Through the wormhole" | C. Sinha |
| Panel discussion: "Hur kommunicerar man med utomjordingar?" Kulturnatten 2011 | A. Holmer |

Table 5. *Outreaching activities during 2012.*

Doctoral dissertations since RQ08

Since RQ08, there have been 5 Ph.D. dissertations completed at the department. These dissertations represent several areas of research at the department: neurolinguistics (prosody-grammar interface), psycholinguistics (writing), prosody (intonation), language acquisition (gestures), and second language acquisition. See table 6 for a summary.

| DOCTORAL DEGREES | | |
|---------------------|------|---|
| NAME | YEAR | Dissertation title |
| Mikael Roll | 2009 | <i>The neurophysiology of grammatical constraints</i> |
| Victoria Johansson | 2009 | <i>Developmental aspects of text production in language and speech</i> |
| Gilbert Ambrazaitis | 2010 | <i>Nuclear intonation in Swedish</i> |
| Mats Andrén | 2010 | <i>Childrens' gestures from 18 to 30 months</i> |
| Susan Sayehli | 2013 | <i>Developmental perspectives of transfer on third language acquisition</i> |

Table 6. Doctoral dissertations in linguistics since 2008.

Current research by doctoral candidates

The department's current doctoral candidates are involved in a wide range of research projects. Table 7 summarizes the areas of study of active Ph.D. students.

| Name | Dissertation topic |
|---------------------|---|
| Felix Ahlner | Language, cognition and landscape |
| Johan Blomberg | Semantics of motion verbs |
| Sandra Debreslioska | Gestures and discourse |
| Sabine Gosselke | Acquisition of grammatical tone |
| Simone Löhndorf | Semantic development of children and adolescents |
| Frida Mårtensson | Abstract, concrete and emotional words in the mental lexicon |
| Ingrid Nilsson | Issues in translation of language specific expressions |
| Mikael Stenberg | Sociolinguistic aspects of pronunciation dictionaries |
| Teresa Strandviken | Differences in reading and listening to audio-books |
| Axel Svahn | The Japanese imperative |
| Vi Thanh Son | Teaching and learning a second language in classroom settings. A comparative study of English in Sweden and Vietnam |
| Marcus Uneson | Navigating small worlds: Unsupervised lexical learning |

Table 7. Current Ph.D. dissertation topics.

A number of doctoral candidates have publications dealing with their dissertation topics. Following are titles submitted by Ph.D. students to the self-evaluation:

Blomberg, J. & Zlatev, J. 2013. Actual and non-actual motion: why experientialist semantics needs phenomenology (and vice versa), *Phenomenology and the Cognitive Sciences*.

Presenting an interpretation of expressions of “non-actual motion” (i.e. expressions where motion verbs are used for describing static configurations, e.g. ‘the road goes through the forest’) and their possible motivations from the experience of motion, the article argues that non-actual motion is best understood as a multifaceted phenomenon with at least three possible motivations.

Debreslioska, S., Özyürek, A., Gullberg, M. & Perniss, P. (Accepted). Gestural viewpoint signals referent accessibility. *Discourse Processes*.

The paper provides further evidence for the co-ordination between speech and gesture in discourse. Reference tracking is studied and focus is placed on the gestural viewpoint and how it is deployed in the tracking of animate entities in German discourse. The results show that the gestural viewpoint systematically varies depending on context. Character viewpoint is used for maintained entities and observer viewpoint for re-introduced entities.

Mårtensson, F., Roll, M., Lindgren, M., Apt, P., & Horne, M. 2013. Sensory-specific anomic aphasia following left occipital lesions: Data from free oral descriptions of concrete word meanings. *Neurocase*, 1–16.

This case study of a male speaker with lesions in visual brain regions showed that his access to words and understanding of concrete nouns referring to specific concepts was severely disrupted, whereas access to other sensory information and to more general concepts and could still be accessed. The article presents a novel

method for analysing word meaning in oral descriptions. The results are relevant for modelling lexical meaning and have implications for speech therapy.

Svahn, A. 2012. Imperative *-ta* in colloquial Japanese. In B. Frellesvig, J. Kiaer, & J. Wrona (eds.) *Studies in Japanese and Korean Linguistics*. London: Lincom.

The article discusses a phenomenon in Japanese in which directive speech acts are expressed through the use of the preterite suffix *-ta*. The use, structure, and function of imperative *-ta* is described and analyzed. Focus is on differences in usage between imperative *-ta* and other Japanese directive strategies, more specifically, on the connection between imperative *-ta* and perfective aspect.

Uneson, M. (Accepted). When errors become the rule: twenty years with transformation-based learning. *ACM Computing Surveys*.

Transformation-based learning (TBL) is a simple yet flexible machine learning method for sequential classification, invented by Eric Brill (1993). It is widely used within NLP, but practically unknown in other fields. My article hopes to improve on this by providing an informal but comprehensive TBL survey, addressing a perceived gap in the literature.

Seminar activities, conference and workshop organization

The department's researchers organize and participate in a number of seminars, including the research seminar in linguistics, seminars organised by the projects CCL and CCS, the HuMe-seminar and the language acquisition seminar series. The department's researchers have also been involved in the organisation of a number of conferences, symposia, and workshops since the time of RQ08. Table 6 summarizes these meetings, along with their homepages.

| |
|---|
| SLTC 2012 - The Fourth Swedish Language Technology Conference, 2012-10-25-26 http://nlp.cs.lth.se/events/slctc_2012/ |
| International Society for Gesture Studies, 2012-07-24-27 http://www.gesturestudies.com/isgs2012/ |
| Conceptualising European Landscapes Across Languages, Cultures and Disciplines, 2012-05-1-4 http://vespucci.org/presentation-sm |
| Speaking of prosody, 2011-05-21 http://conference2.sol.lu.se/speakprosody/ |
| Humanities of the Lesser-Known 2010-09-10-11 http://conference.sol.lu.se/hlk-2010 |
| Fonetik 2010, 2010-06-2-4 http://conference2.sol.lu.se/fonetik2010/index.html |
| The Mental Lexicon, 2009-12-10 http://projekt.ht.lu.se/ace/symposium-the-mental-lexicon/ |
| Brain Talk. Discourse with and in the Brain, 2008-06-2-3 http://conference2.sol.lu.se/BrainTalk/ |
| The 11th International Conf. of the EARLI Special Interest Group on Writing, 2008-06-11-13 http://conference.sol.lu.se/sigwriting-2008/ |

Table 6. Conferences and workshops organized since RQ08.

Research-based education

The broad research profile at the department of linguistics is mirrored in the many advanced courses offered by the department. Since the time of RQ08 the department's researchers have developed a large number of new courses, particularly in connection with the establishment of the masterprogram in languages and linguistics at the Center for Languages and Literature. Advanced courses in the theory of science for linguists, linguistic methodology, second-language learning, historical linguistics, language and the brain, pragmatics, sociolinguistics and multilingualism, the origins of language, typological case-studies, communication in humans and animals, field methodology, language and music, language and gestures, language, culture and mind, metalinguistics, psycholinguistics, language development, writing and language, experimental phonetics, phonology, sounds of the world's languages, speech production, and speech technology have been developed at the department of linguistics. In addition, the department's researchers, lead by Victoria Johansson, Gerd Carling, and Arthur Holmer have collaborated on writing a course-book in linguistics that will be used in the new Swedish upper

secondary school subject devoted to linguistic studies (*språket, människan och världen*). It should also be mentioned that Arthur Holmer was representative for the discipline linguistics on the national level when the course was developed during 2009-2010.

The department's researchers are actively involved in supervision of B.A. and M.A. theses and this has led to a continued, well-documented high degree of research-based input to the education of students at the Center for Languages and Literature. This favourable situation for students is reflected in the excellent result the Swedish National Agency for Higher Education awarded the department this year in the national evaluation of undergraduate education. The advanced courses that have been developed by the department's researchers are available not only to students of linguistics but also to other students in the master program at the Center for Languages and Linguistics. The department's researchers also function as supervisors for master students in other subjects, something which is very positive both for education and for the development of collaborative research activities at the center. Further, involvement of the department's externally financed researchers in supervision of students has led in many cases to undergraduate students in linguistics and other subjects being recruited as assistants in research projects.

Future aspirations

Linguistics has always been and will most likely continue to be an academic discipline whose activity is principally devoted to research and advanced education. As such, it is hoped that the conditions for carrying out this work will continue to be good and hopefully even improve considering the extensive activities the department's researchers have been involved in during the years since RQ08. As has been mentioned above, the research carried out by researchers in linguistics is highly interdisciplinary. The individuals involved in projects related to language structure, language processing (psycholinguistics, neurolinguistics), language evolution, language typology are all involved in investigations with researchers in other disciplines, not only at the Center for Languages and Literature (e.g. English, Romance languages, semiotics), but also at other departments at the HT-faculties (cognitive science, philosophy, archeology) and even with departments at other faculties (psychology, neurology, music, medical radiation physics). Interdisciplinary research is indeed something that is seen as positive in Lund University's Strategic Plan for 2010-2013 and something which has been promoted by the faculty and the university in general. Thus efforts that have been made on the faculty level to support cross-disciplinary research (e.g. co-financing support to interdisciplinary projects, seed-money to the Humaniora and Medicine initiative, increased resources to HumLab) will hopefully continue.

The amount of external funding that has been awarded to the department's researchers has almost quadrupled since RQ08. This is very positive for research in linguistics and for the faculty and university. Therefore, we would like to see a corresponding increase in core funding for research positions as well. We can expect that our researchers will continue to be successful in obtaining external research funding. We can also predict a greater number of publications in high-impact journals and books with high international status due to increased external project-funding and also due to initiatives taken by the HT-faculties to promote and professionalize efforts in the area of academic publishing (see <http://www.ht.lu.se/skriftserier>).

As was noted above, the possibilities for the junior researchers to participate in education is limited in comparison to earlier years. A wish for the future is thus greater opportunities for tenure-track positions for young researchers which combine research and research-based education in a more structured manner than is currently possible. Since RQ08, the position of 'forskarassistent' (≈assistant professor), a 4-year position combining teaching and research for postdoctoral researchers has disappeared. Forskarassistent positions provided the possibility for junior researchers to obtain both educational and research experience in preparation for an academic career. The position of *forskare* 'researcher' which is now available for junior researchers does not have any teaching duties associated with it and as such is not an optimal position for qualifying young persons aiming at pursuing an academic career. Although linguistics has a good number of young researchers who are experts in different areas of the discipline, their expertise is underexploited in the education of students at the faculty. The possibility of creating tenure-track positions combining research with a certain amount of education is something which would improve the conditions for young researchers in linguistics.

SWOT-analysis

STRENGTHS

- Long tradition of good research in a broad range of sub-disciplines and theoretical directions
- Several junior researchers with high research competence in several areas
- Successful in attracting large-scale, prestigious external funding
- Documented history of internal collaboration and pooling of specialist expertise
- Several interdisciplinary collaborations with other departments, faculties and institutes on a local, national, and international level
- Extensive international networks
- Successful in attracting international students and researchers
- Access to state-of-the-art research infrastructure
- Internationally competitive research published in world-leading journals in the field
- External funding allowing students to participate in projects and obtain first-hand research experience
- Expertise in a wide range of areas, consistently implemented in research-based education

WEAKNESSES

- Does not have a critical mass within all research groups
- Underexploited opportunities for research collaboration within SOL-center
- Lack of strategies for long-term sustainability of research areas and agendas
- Not enough funding for 2nd cycle (advanced) education where researchers can make important contributions
- Lack of insight into/control over how SOL-central and HT-research funds are used
- Lack of work-space hinder to expansion

OPPORTUNITIES

- New intra- and interdisciplinary initiatives establishing new domains of expertise
- Cross-faculty networks facilitating development of new research questions and innovative use of new experimental methods
- Availability of digital workspaces and storage
- New international funding possibilities
- Current restructuring of SOL-organisation which should allow for more initiatives and strategic planning as regards research and advanced education activities
- Connections between education and research (and recruitment of the Ph.D. program) could be strengthened through the introduction of research internships (e.g. within the framework of the M.A. program)
- Excellent research infrastructure to be expanded in 2014 with completion of HT's LUX-project
- Research environment that lends itself to creative interdisciplinary research
- Potential for expanded interdisciplinary research in conjunction with the establishment of LUX

THREATS

- No increase in core faculty financing since RQ08
- Unclear long-term strategy for use of SOL- and HT- core research funds
- Lack of tenure-track positions for young researchers threatens continuation of promising research areas as well as capacity to supervise Ph.D. students
- Recruitment of full-time research leaders/new professors problematic due to current requirement of ca 50% funding from undergraduate education
- Lack of balance of funding between 1st cycle and 2nd cycle education disfavours development of advanced education at the faculty
- Unclear future for interdisciplinary, cross-faculty research initiatives
- Dependence on continued success of project applications for the long-term survival of research groups
- Difficulties applying for research funding due to varying practices at different faculties and institutions related to handling of overhead costs, administrative routines, etc.
- Recruitment practices are slow and do not always follow international practices (e.g. 'postdoc' positions).
- The position of 'researcher' (*forskare*) does not provide junior researchers with the opportunity to become involved in academic teaching.
- Lack of policy for long-term storage of research data (issue of the University)

Appendix 1

Overview of external research funding at linguistics since RQ08: see <http://www.sol.lu.se/en/research/forskningsprojekt/> and <http://www.sol.lu.se/en/lingvistik/research/> for more information on individual projects

| EXTERNAL RESEARCH GRANTS OBTAINED SINCE 2008 | | | | | | | | | | | |
|--|------------------|--------------|------|------|------|------|------|------|------|------|------|
| Project | Financing Source | PI (Ling.) | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Reading during writing | VR | Wengelin | 0.9 | | | | | | | | |
| Grammar, prosody , discourse and the brain. ERP studies... | VR | Horne | 0.5 | 0.45 | | | | | | | |
| Adverbs as verbs in forosan | RJ | Holmer | 0.56 | 0.56 | | | | | | | |
| Separating intonation from tone | VR | Karlsson | 0.65 | 0.65 | 0.65 | | | | | | |
| SIMULEKT | VR | Bruce/Schötz | 0.82 | 0.82 | 0.82 | | | | | | |
| Aspiration i altaiska språk | VR | Svantesson | | | 0.2 | | | | | | |
| Driving forces of semantic categorization | VR | Burenhult | 0.55 | 0.55 | 0.55 | 0.55 | | | | | |
| Precursors for Sign Use* | VR | Zlatev | | 0.2 | 0.2 | 0.2 | 0.2 | | | | |
| Scandoromani | VR | Carling | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | | | |
| Contrast in lang., thought & memory | VR | Willners | 0.15 | 0.45 | 0.33 | 0.37 | 0.49 | | | | |
| Abstract, Emotional, Concrete words | VR | Horne | | | 0.9 | 0.9 | .09 | | | | |
| Information structure, prosody & Formosan | VR | Holmer | | | 1.1 | 1.1 | 1.1 | | | | |
| Function and production-based modeling of prosody | VR | Frid | | | 1.0 | 1.0 | 1.0 | | | | |
| Gaze Behaviour in writing | VR | Wengelin | | | 1.2 | 1.2 | 1.2 | | | | |
| De l'Espace au Temps (ET) | | Zlatev | | | 0.1 | 0.1 | 0.1 | | | | |
| A digital atlas of South America | Crafoord | Carling | | | | | | 0.5 | | | |
| Humanities and Medicine | HT | Horne | | | | 0.5 | 0.5 | 0.5 | | | |
| Exotic vowels in Swedish | VR | Schötz | | | | 1.3 | 1.3 | 1.3 | | | |
| Neurophysiological measurements of syntactic processing | VR | Roll | | | | 1.2 | 1.2 | 1.2 | | | |
| Gestures involving handling of objects | EPSS | Andrén | | | | | 0.07 | 0.07 | 0.07 | | |
| Expert writing | VR | Johansson | | | | | 1.3 | 1.3 | 1.3 | | |
| Centre for Cognitive Semiotics (CCS)* | RJ | Zlatev | | 1.4 | 0.97 | 2.1 | 2.7 | 1.9 | 2.0 | | |
| Information and discourse structure | VR | Karlsson | | | | | | 1.95 | 1.95 | 1.95 | |
| Digital Media Archive: Austroasiatic heritage | RJ | Burenhult | | | | | 1.6 | 1.6 | 1.6 | 1.6 | |
| LACOLA* | ERC | Burenhult | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Center for Cognition and Learning (CCL)* | VR | | | | 0.3 | 0.67 | 1.3 | 1.2 | 1.0 | 1.0 | |
| Images of tones: fMRI studies | VR | Horne | | | | | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| Multi-modal Levels of prominence | M&A Wallenberg | Ambrazaitis | | | | | | 0.4 | 0.6 | 0.3 | 0.2 |
| LUNDIC-Lund Digital Info. System* | M&A Wallenberg | Carling | | | | | | 1.0 | 1.0 | 1.0 | |
| Estonian Swedish | VR | Schötz | | | | | | 1.6 | 1.6 | 1.6 | 1.6 |

*Interdisciplinary project involving departments other than linguistics. Only the funding for linguistics is given in the table

Appendix 2

Journals published in from 2008-2012 (numbers in parentheses refer to number of articles published in a particular journal if more than one)

2008

Language sciences (2)
 J. of consciousness studies (2)
 Dyslexi-aktuellt om läs- och skrivsvårigheter (2)
 Linguistic typology
 Studies in language
 Journal of physiology
 Journal of Arabic and Islamic studies
 Clinical linguistics and phonetics
 Logopedics, phoniatrics and vocology
 Språk
 Läsning

2010

Language learning (3)
 Journal of pragmatics (3)
 Cognitive linguistics (2)
 Applied psycholinguistics
 Communication disorders quarterly
 Brain research
 Brain and language
 Mon-khmer studies
 Reading and writing
 Int. J. of language and communication
 Sign systems studies
 Second language research
 Journal of psycholinguistic research
 Phonetica
 Tvärsnitt

2012

Bilingualism: language and cognition (2)
 Brain and language
 Cortex
 Phonetica
 Altai Hakpo-J. of the Altaic society of Korea
 Text and talk
 Tocharian and Indo-European studies
 Second language research
 Language documentation and description
 Language documentation and conservation
 International review of applied linguistics
 Lingua
 The mental lexicon
 Public journal of semiotics
 Cognitive semiotics
 Lingue e linguaggio
 Psychology of music
 Suomalais ugrilaisen Seuran toimituksia

2009

Journal of pragmatics (2)
 Journal of neurolinguistics
 The mental lexicon
 Turkic languages
 J. of the south-east Asian linguistic society
 Language
 Mon-khmer studies
 Clinical linguistics and phonetics
 North-east Asian studies
 Behaviour research methods
 J. of the International Phonetic Association
 Aphasiology
 Cognitive semiotics
 Quaderni di semantica
 Cybernetics and human knowing

2011

Brain research
 Bilingualism: language and cognition
 Language, interaction and cognition
 New scientist
 Journal of cognitive neuroscience
 The senses and society
 Linguistics of the Tibeto-Burman area
 Intellectica (2)
 Review of cognitive linguistics
 Acta Neurobiologiae Experimentalis
 Language and cognition
 Diachronica
 Semiotix
 J. of child language
 Årsberättelse: Kungl. Hum. Vetenskapssamf.
 Årsbok: Vetenskapssocieteten

Book-chapter publishers (2008-2012)**2008**

Cambridge Scholars
Novus
IOS Press
Vetenskaps societeten

2009

Peter Lang (3)
Cambridge Scholars
Emerald Group
Språk och litteraturcentrum

2010

Norstedts (2)
Wissenschaftlicher Förlag, Trier (2)
Springer
Univ. of Gothenburg
Samfundslitteratur
Multilingual Matters
J. Benjamins
Equinox

2011

J. Benjamins (3)
Cambridge Univ. Press (2)
Multilingual Matters
Univ. of Gothenburg
Pacific Linguistics
Equinox

2012

J. Benjamins (6)
Wiley-Blackwell (4)
Mouton-De Gruyter (2)
Emerald
Information Age
College Publications
Vetenskaps societeten
Musikhögskolan (Malmö)
Media Tryck

Book publishers**2008**

Podium: Språkrådet

2009

Harrassowitz Verlag

2010

Studentlitteratur (2)
Norstedts
University of Hawaii Press

2012

Harrassowitz Verlag
Cambridge University Press
J. Benjamins