Annual Report

LUND UNIVERSITY HUMANITIES LAB | 2015
Annual Report 2015

The past year, 2015, was eventful for Lund University Humanities Lab. It was our first year as a ‘distributed Lab’ – now with research facilities in the two buildings of the Joint Faculties of Humanities and Theology, namely the Lab@SOL and the Lab@LUX. Over the year, we have developed new routines for organising demos and visits to the Lab. We have also worked hard to raise awareness of our new facilities, the custom-built motion capture lab ready for 3D and virtual reality, and the state of the art audio and video studio called the LARM studio (Ljud, Animation, Rörliga bilder, Musik, ‘Sound, Animation, Moving images, Music’), inaugurated at the end of 2014. We have been very lucky to receive generous financial support a second time from Einar Hansen’s Ahlerns Foundation to equip the LARM studio. We are deeply grateful for this support.

The Lab continued its activities and engagement locally, nationally and internationally in the academic arena and in interaction with society. We have more users than ever, and we have become host to new large externally funded research projects; we have new collaborations, courses, seminar series, and as always a string of visiting scholars. We hosted workshops on topics as diverse as theremin playing and on infrastructures for the Humanities. We continue to provide training in the technologies at hand through workshops and courses open to researchers, teachers, and PhD students, as well as organising a steady stream of demo sessions, seminars, etc.

As should be clear from the pages of this Annual report 2015, the Humanities Lab is as dynamic as ever. It is an exciting environment where the Humanities, Theology, and Social sciences can tackle the scientific challenges ahead.

Marianne Gullberg
Director of Lund University Humanities Lab
Feb. 2016
Introduction

Lund University Humanities Lab is an interdisciplinary research and training facility financed by the Joint Faculties of Humanities and Theology (JFHT) at Lund University. It is open to scholars, teachers, and students at these faculties, but also to users across Lund University campus and beyond. We host technology, methodological know-how, data management and archiving expertise, and a wide range of research projects. Lab activities are centred around the Humanities with research targeting issues of communication, culture, cognition, and learning, but many projects are interdisciplinary and conducted in collaboration with the Social sciences, Medicine, the Natural sciences, Engineering, and e-Science. We provide training in hosted technologies and related methods through courses and tutorials, seminar series, and guided demo sessions. We are also an arena for collaboration between Academia and external stakeholders in education, industry, and cultural institutions locally, nationally, and internationally. Our collaborations include long-term partnerships with secondary schools, joint development of hardware and software solutions with industry, the development of measurement standards, and networks on issues of research infrastructures, data storage and processing. The Lab is a dynamic environment enabling scholars across the JFHT to combine traditional and novel methods, and to interact with other disciplines.

Since August 2014 the Lab has facilities at the Centre for Languages and Literature (in Swedish Språk- och litteraturcentrum, abbreviated SOL), and at LUX, the new building for the Joint Faculties of Humanities and Theology. We therefore have the Humanities Lab@SOL and @LUX. Since the expansion in 2014, Lab activities have continued to grow. The Lab currently has approximately 150 registered users in 50 projects.

Research

Organisational research in the Lab is of two kinds. Most research in the Lab is conducted by scholars whose research grants and groups are located in their home departments. These scholars come to the Lab to conduct their empirical studies using Lab equipment and resources. Examples of such user groups are scholars working in the inter-faculty Linnaeus Centre Thinking in Time: Cognition, Communication, Learning (CCL, financed by the Swedish Research Council; see box), but also scholars with smaller research projects as exemplified in this report.

The Lab also hosts its own externally funded research projects, with grants and research groups located in the Lab. In 2015, the Lab hosted five such large-scale projects with affiliated members: an ERC project entitled Language, cognition, landscape (LACOLA, Burenhult); a major collaborative project between Lund, Stanford and Umeå Universities as part of a Wallenberg Network Initiative entitled Culture, brain, learning (Strömqvist, Heller, Gullberg, Smith), funded by the Knut and Alice Wallenberg Foundation; a project called EyeLearn: Using visualizations of eye movements to enhance metacognition, motivation and learning (Holmqvist), funded by the Marcus and Amalia Wallenberg Foundation; a project called Embodied bilingualism (Gullberg) funded by the Knut and Alice Wallenberg Foundation; and a new project entitled Language as key to perceptual diversity (LANG-KEY, Burenhult), funded by the Bank of Sweden Tercentenary Foundation Jubilee Initiative.

The Linnaeus Centre Thinking in Time: Cognition, Communication, Learning

The inter-faculty Linnaeus Centre Thinking in Time: Cognition, Communication, Learning (CCL), financed by the Swedish Research Council 2008-2018, is a multidisciplinary centre focussing on the role of timing in cognition, communication, and learning at time scales ranging from the millisecond to years, and examining phenomena from the cellular to the behavioural level. Scholars from Cognitive Science, Psychology, Linguistics, Neurophysiology, and Logopedics, Phoniatrics, and Audiology for example investigate the role of the cerebellum for cognition and learning; the influence of internal simulation of perception and action on cognition; the neurocognitive embedding of language and memory; the interaction between language and bodily movement for learning and communication; and computer-assisted forms of learning.
EYE TRACKING. In 2015 research using eye tracking continued to flourish. Lab members were active as co-organisers of the world’s largest conference on eye movements, ECEM18 in Vienna (Holmqvist), on programme committees for the conference Eye Tracking South Africa (Nyström) and gave keynote lectures at several international conferences in Israel, South Africa, and the USA (Holmqvist). Holmqvist and Lab members also organise the Lund Eye Tracking Academy (LETA) workshops twice a year to provide training in eye tracking. LETA has now trained over 450 scholars worldwide. The textbook on eye tracking methodology, authored by Holmqvist and other members of the Lab and first published by Oxford University Press in 2011, will appear in a second edition. New courses on eye tracking were also developed (Nyström) and taught in Turku, Finland.

The research project EyeLearn: Using visualisations of eye movements to enhance metacognition, motivation and learning (Holmqvist), saw the arrival of a postdoc in 2015 (Wallner). The project builds bridges between education, training, and research using eye tracking to study students’ information processing, teachers’ feedback on students’ visual attention, and the effect on learning. New research avenues were also launched in 2015. Nyström was a co-applicant on two successful grants from the Swedish Research Council. The project Mental imagery seen from different worlds of thoughts (R. Johansson, M. Johansson, Deehurst, Nyström) builds on previous work examining mental images using eye tracking techniques. The project Event detection in eye tracking data - method with clinical applications (Stridh, Hammar, and Nyström) brings together scholars from Biomedical engineering, Ophthalmology, and the Humanities Lab. The joint doctoral student with the engineering faculty (L. Larsson), funded by the strategic research area e-Science (http://essenceofescience.se/), completed work on smooth pursuit and automatic event detection, leading to two publications, and a projected PhD defence in early 2016. Other Lab members involved in the Wallenberg project Culture, brain, learning (Gullberg, M. Johansson, M. Lindgren) where three postdoctoral subprojects use these techniques to improve our understanding of memory for narratives. The projects examine crosslinguistic effects on comprehension in the semantic domain of placement (A. Andersson); the effects of visual attention and information availability on episodic memory retrieval (R. Johansson); and the neural mechanisms underlying episodic memory and factors determining memory accessibility (Brändö). External users included a Wallenberg fellow project (Rolf; Schremm, Söderström, Novén inter al.) that traces the brain networks that support interaction between language melody (intonation) and grammar in language processing. Other projects using this technique explored how Swedish speakers process relative clauses (Wilkik et al.).

3D SCANNING, VIRTUAL REALITY (VR). The use of 3D and VR techniques continued to grow especially in the domain of archaeology and cultural heritage. For example, Lab members worked to create a virtual copy of the mummified 17th century Danish-Swedish bishop Peder Winstrup, exhumed in Lund in 2013 (Kansten, C. Larsson, Lindgren). A follow-up study involved macro photography of king Valdemar’s sarcophagus at Sore Academy in Denmark (Garde, Lindgren) where the bishop went to boarding school 1618-1623. In collaboration with the Linnaeus University another project examined digital solutions in museum environments to bring the past to life (Petersson, C. Larsson). As a good example of such solutions, the Lab (Lindgren) helped produce a film for the Swedish Pompeii project showing the reconstructed villa of Caecilia Lucundus (http://www.pompiejeprojektet.se/). The Lab was also involved in a large scale international project seeking to reconstruct the sensory experiences of the past using multimedia, targeting the world of late medieval nuns (http://arvescapes.asu.edu/). Another international endeavour sees the Lab (Lindgren) attempting to create a plan of the ancient city of Hermione in Greece. 3D-scans of ancient remains will be connected in a GIS-system, allowing scholars to probe the layout of the ancient city lying underneath the modern one.

Much work also focuses on method development, for example pushing hardware and software issues forward to enable the use of collected data to be visualised and viewed in devices such as cardboard 3D-viewers holding smart phones with 3D-apps. Another line of work targets interactive visualisation, or tracking and streaming of motion capture data in real time. Other issues include automating postprocessing of 3D photo techniques to save time and reduce errors (Garde, C. Larsson, M. Lindgren) and authored a second edition. New courses on eye tracking were also developed (Nyström) and taught in Turku, Finland.

Methods development is continuous in this domain, involving for example data quality checking routines, the development of new algorithms, demo platforms, etc.

ELECTROPHYSIOLOGY. Work using electrophysiological measurements of brain activity continued to expand. To meet the growing demand for training from advanced students and researchers, the Lab developed a new EEG course (Andersson, Garde; see Training and Teaching).

Research projects exploiting the technology include the project Culture, brain, learning (Gullberg, M. Johansson, M. Lindgren) where three postdoctoral subprojects use these techniques to improve our understanding of memory for narratives. The projects examine crosslinguistic effects on comprehension in the semantic domain of placement (A. Andersson); the effects of visual attention and information availability on episodic memory retrieval (R. Johansson); and the neural mechanisms underlying episodic memory and factors determining memory accessibility (Brändö). External users included a Wallenberg fellow project (Rolf; Schremm, Söderström, Novén inter al.) that traces the brain networks that support interaction between language melody (intonation) and grammar in language processing. Other projects using this technique explored how Swedish speakers process relative clauses (Wilkik et al.).
Lindgren). As part of this focus, the Lab has also developed a new course on Motion capture research methods to be offered in 2016.

**Motion Capture and Articulography.** The Lab hosts two sets of technology that allow scholars to record human body movements in 3D with high spatial and temporal resolution: motion capture and articulography. The motion capture system consists of eight high-speed infrared cameras linked to each other, a high-speed video camera and a recording computer. The infrared cameras detect and record the 3D position of reflective markers strategically located on the moving individual’s body. Articulography measurements are obtained by recording the locations of small sensor coils that are attached to the articulators, such as the tongue, in an electromagnetic field.

The use of motion capture increases steadily. A range of projects now use motion capture in the context of virtual reality to examine speakers and their gestures, for example. The Linnaeus Centre Thinking in Time: Cognition, communication and learning used motion capture to build virtual language users to explore gesture-speech integration (Nirme, Gullberg, Guz, Haake). In particular, in one project virtual agents were built based on mocap recordings of real speakers and then experimentally manipulated (Nirme). Gullberg’s Wallenberg Scholar project Embodied bilingualism exploits the same techniques to build and examine speech-gesture profiles of native and non-native speakers of Swedish, French, and English, in order to probe issues of bimodal language processing in mono- and bilingual speakers. In other domains the motion capture system was used to examine movements in patients with knee injuries (Ageberg, see box).

Here too, much work was devoted to method development. For example, work was done to improve motion capture recording at difficult angles, and improving automated data replacement when markers are occluded or lost (Garde).

The articulograph was used in phonetic projects within the Linnaeus centre CCL and in individual research projects such as a PhD project in linguistics examining tonal, facial and articulatory gestures in Swedish prosody (Svensson). The Lab also developed training in articulography for students of logopedics and speech therapy (Schötz, Frid). As a member of Swe-CLARIN, the Humanities Lab provides tools and expertise related to language archiving, corpus and (meta)data management, with a continued emphasis on multimodal corpora, many of which contain Swedish resources, but also other (often endangered) languages, multilingual or multilingual research stimuli and materials, such as in a project studying foreign accent in Swedish (Tornier), and a project developing a language game to learn Swedish lexical tone (Ewald, Roll).

**Sound and Film Facilities.** Activities in the new LARM-studio, the state of the art facility for professional level audio and video recordings, took off in 2015. The studio was the empirical home of an Artistic Study group at the Pufendorf Institute drawing on Lab resources and expertise (Rosi). The studio also hosted activities such as the podcasts of the Joint Faculties of Humanities and Theology, and academic courses in music production by the section of Musicology. It was also used to create audiovisual stimuli for electrophysiological experiments, for example (Anderson), and to produce so-called Massive Open Online Courses (MOOCs) at LU (Ljungviest).

**The anechoic chamber** was used in studies on vocal communication and voice treatment (the Linnaeus Centre CCL), in the production of educational materials (pronunciation exercises, for example), and auditory research stimuli and materials, such as in a project studying foreign accent in Swedish (Tornier), and a project developing a language game to learn Swedish lexical tone (Ewald, Roll).

**Corpus Server, Swe-CLARIN, Data Management.** The corpus server offers secure, long-term storage of structured digital research data. The aim is not only to archive data sets and corpora, but also to help create a locus for dynamic data management. As such the corpus server can function as a collaborative workspace, where a group of researchers can download, edit and enrich, and upload data and metadata. Metadata are publicly visible, browsable and searchable through the corpus browser, while the data themselves are password-protected. With this setup, other researchers can read about data that may of significance for them and then contact the responsible researchers and ask for permission to access these data (https://corpora.humlab.lu.se).

In 2015, the corpus server comprised 2.5 TB data, and new data ingested included the ESST Estonian Swedish dialect corpus (Schötz); data from the ERC project language, cognition, and landscape (Burenhult), data from the Repository and workspace for astrophysical intangible heritage (RWAII) concerned with endangered languages (Burenhult, Krupe); and Exotic vowels in Swedish (Schötz). Since 2014 the Humanities Lab is also a member of the Swedish national consortium for language technology, Swe-CLARIN (http://sweclarin.se), itself a part of a European Research Infrastructure Consortium CLARIN (Common Language Resources and Technology Infrastructure; http://clarin.eu). This consortium aims to provide scholars with easy and sustainable access to language resources as e-science, that is, digital language data (in written, spoken, video or multimodal form), and advanced tools to discover, explore, exploit, annotate, analyse or combine them. CLARIN is of increasing importance because of the sheer volume of “born-digital” language data available, but also large-scale digitisation of our cultural heritage, and the increasing visibility and importance of e-science in all fields.

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This project examines the effect of sleep on emotional memory. Phd Project: The effect of sleep on emotional memory

Training, teaching, consultations

Training, teaching, and internal and external consultations are an important part of the Lab activities. Topics include how to use motion capture and 3D scanning in archaeology, how to cap participants in an EEG study, how to create a linguistic corpus and annotate video data, and how to programme your own experiment. This work is motivated by the goal to facilitate and enable interdisciplinary, intra- and inter faculty research, and increase access to the technological resources that require advanced methodological skills.

PhD courses, taught by Lab members, are offered to PhD students for credit (7 in 2015). These courses evolve to include new software or programming tasks as the fields move forward. Lab members are also involved in supervision at all levels (BA, MA, PhD) as a direct result of these courses and specific expertise. The Lab group tutorials were further elaborated and coordinated in 2015 by the pedagogical developer (Splendido) to meet the demands of new users asking for specific elements (21 tutorials in 2015). Six are new, specifically in the domains of 3D scanning, and audio-video recordings in the LARM studio. Lund Eye Tracking Academy also offers intensive workshops on eye tracking with many international participants. Lab members also give lectures on a range of topics as part of other regular courses offered at the Joint Faculties.

The consultation work is also extensive (104 recorded occasions in 2015). Methodological and statistical guidance for research projects within and outside the Lab continues to grow. The Lab programmer (Garde) and the in-house methodologist (van der Weijer) both contributed to meet the increasing needs for sophisticated support.
National and international Collaborations

Lund University Humanities Lab and its members have thriving local, national, and international collaborations and networks. Those linked to individual scholars are too numerous to list here, but the Lab also has many institutional collaborations.

Through its members, the Lab is involved in large international networks related to eye tracking and eye movement data, such as the Eye Movement Researchers’ Association (EMRA); Communication through Gaze based Interaction (COGAIN), and the Committee for Eye Data Quality (EDQ; Holmqvist, Mulvey).

Similarly, in the field of 3D scanning, the Lab has several international collaborations through its members (S. Lindgren, C. Larsson). These networks include the Lund University Historical Museum, the Centre for Textile Research in Copenhagen, Denmark, the Swedish Institute in Athens, and the University of Verona, Italy.

The Lab is a node in the national consortium SWE-CLARIN (http://sweclarin.se/), itself part of CLARIN, the European Common Language Resources and Technology Infrastructure (http://clarin.eu). SWE-CLARIN links nine Swedish institutions around issues of language technology, including the Swedish National Data Service (SNID). As a national node, the Lab provides tools and expertise related to language archiving, corpus and (meta-)data management, with a continued emphasis on multimodal corpora, many of which contain Swedish resources, but also other (often endangered) languages, multilingual or learner corpora. The local coordinator (Frid) was involved in a role pilot projects in 2015 (see Research). The Humanities Lab also continued its collaboration with The Language Archive at the Max Planck Institute for Psycholinguistics. The Humanities Lab corpus server is linked to this archive and hosts a collection of fully documented and freely available multimodal language data, part of a much wider network of similar resources, including for example the endangered Language Documentation Programme (http://www.lidp.net/) at the School of African and Oriental Studies (SADAS), University of London.

The Lab also continued its partnership with eScience, a national strategic research program in e-Science (http://essenceofscience.se/) involving the universities of Uppsala, Lund, and Umeå. The overall enterprise focuses on the development of tools for handling, storing and retrieving research data in digital form. An ongoing joint PhD project with the Engineering Faculty on event detection in eye movement data (L. Larsson, Nyström) is about to be completed (projected defence in early 2016). The Lab is also linked to Lund Bio-Imaging Centre in this network. 2015 saw the completion of a joint solution for optimizing data flows, large databases, heavy data computors, and data visualisation, achieved through the assistance of LUNARC, the Lund University Center for Scientific and Technical Computing. These needs continue to grow due to the increased use of the corpus server as well as by the increased volume of sensor data. The Lab participated in the Swedish e-Science Academy meeting 2015 in Stockholm with a presentation on 3D Data in Cultural Heritage (Lindgren). A large-scale research project is also embedded in the initiative. The Lund-Stanford project, entitled Culture, brain, learning, engages some 30 scholars in a range of subprojects across three domains: Narrative, Reading, and Improving learning. Lund-Stanford) is all three domains in 2015 in collabora-

The Wallenberg Network Initiative further links the Lab to HUMlab Umeå and work within Digital Humanities, a burgeoning field where the Lab has links to the newly established Centre for Digital Humanities in Gothenburg. The Lab seminar series Digital tools in the Humanities, in collaboration with scholars from the Joint Faculties for Humanities and Theology (Gullberg, Göransson, Leander-Touati, Rubensson), further boosts these connections (see further Vi-

The Humanities Lab is also a partner in a number of international projects such as the Centre for Bilingualism in Society across the Lifespan, Oslo; Advanced Studies on Language complexity, Lyon; and the National Centre for Reading and Educational Research, Stavanger, Norway. The Lab also acts as the only Scandinavian partner in the network PIRe: Understanding the bilingual mind and brain, funded by the NSF in the USA under the direction of Prof. J. Kroll, Pennsylvania State University. The network includes nine universities worldwide and focuses on training and exchange. In 2015, the Lab hosted a joint conference presentation on topics of computer assisted learning (Gulz, Haake, Schwartz), and on so-called choice blindness (Hall), etc. The Humanities Lab serves as a hub for these activities, promoting the cross-fertilisation and fruitful exchange and expansion of ideas and networks.

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Geographic Information Systems (GIS) and 3D acquisition technology open up novel documentation methodologies in archaeology. With sophisticated database management systems (GIS) and accurate 3D replicas of a site, at different steps of its investigation, archaeologists can now map the metamorphosis that characterizes different steps of its investigation, management systems (GIS) and 3D acquisition technology. With sophisticated database management systems (GIS) and 3D acquisition techniques, archaeologists can now map the metamorphosis that characterizes different steps of its investigation, management systems (GIS) and 3D acquisition techniques. With advanced digital tools, digital documentation and analysis of archaeological sites.

User project:

Niccolò Dell’Unto, Dept. of Archeology
3D GIS: Development of new research methodologies for the documentation and analysis of archaeological sites.

User project:

Rachel Elienga, Dept of Psychology
PhD project: Visual processing during pictorial memory task in 3-6 year old children (pilot)

This project studies how typically developing children aged 3 to 6 years see the world and how they learn from what they see. It combines eye tracking and classical psychological tests to investigate the development of integrated visual processing. To adjust the setting of eye tracking to young children, the project has built a rocket that children can sit in. This line of study can hopefully help us understand how to help children at risk (for example preterm born children, children at risk for ADHD, autism and dyslexia) – a deeply interdisciplinary enterprise.

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Visibility, access, outreach

The Humanities Lab organises a wide range of events and demos, often with concrete demonstrations of ongoing research and hands-on elements (46 tours and lab demos in 2015 for local, national, and international visitors). In 2015 we hosted visitors such as local schools, the University Hospital, Ambassadors and representatives from the Ministry for Foreign Affairs, the Swedish Minister of Higher Education and Research, and, of course, many officials and scholars from universities all over the world (see Lab demos).

We continue to offer introductory tours and demo sessions to undergraduate and postgraduate programs, and new employees at Lund University. We also encourage teachers and supervisors to participate on these occasions. In 2015, we launched a new group tutorial called introduction to the Humanities Lab (Splendido et al.), which allows novices to try out a number of things in the Lab. We also organised and participated in three workshops on Infrastructures and infrastructural support for the Humanities, on issues of e-science, data management, and related topics.

The Lab further organises seminars on methodology (e.g., eye-tracking, statistics), and on Digital tools in the Humanities, that are open to all. The Digital Tools seminar, co-organised by the Lab and scholars from the Joint Faculties (Gullberg, Göransson, Leander-Touati, Rubensson), draws a wider audience, especially as it has begun to interface with the nascent field of Digital Humanities. In 2015 the seminar series was regularly attended by participants from other Swedish universities, by library experts, and by members of the Swedish National Data Service (SND), thus widening the impact of the Lab seminar. Further, in November the Lab co-hosted a national workshop entitled Digital Humanities: Opportunities and Challenges in collaboration with the Joint Faculties, and the project Digital Cultures (Haider et al.). Participants came from the Centre for Digital Humanities, Gothenburg, HUMLab, Umeå, Linnéuniversitetet, and NTNU Trondheim/University of Cologne.

As stated above, Lab researchers also give a number of invited talks in both academic and popular science contexts, many of which showcase Lab activities and technologies. For example, the Humanities Lab participated in local outreach events such as the popular Humanities Days (HT-dagarna) or- ganised by the Joint Faculties of Humanities and Theology on the theme Geniuses. Lab members gave popular talks and also demonstrations of technology to the public. As part of these outreach activities, we developed a Lab demonstration film (Roslund, Garde), but also short video clips and slideshows, for example on EEG research (Andersson, Sayehli), on linguistic...
The outreach activities also included popular media. Members were interviewed in *Språktidningen* (Frid, Gullberg, Schötz), a specialist magazine about language, and in *Dagens Nyheter* (Gullberg, Holmqvist), a national newspaper. Members also appeared on Swedish national television on *Kunskapskanalen* (the Knowledge channel), talking about language learning and gestures (Gullberg), and about footballers and their multilingual skills (Splendido, Granfeldt). The team in and around the ERC-project Language, cognition and landscape appeared in international media discussing the language of smell and endangered languages in *The Economist*, *New Scientist*, *Daily Mail*, and *The Guardian* (Burenhult, Majid), as well as on Swedish national television *Kulturnyheterna* (Culture news; Burenhult).

Finally, the Lab continued to communicate via its web site and social media. The web site is continuously updated. Information on policies, user agreements, how to participate in experiments, etc., is available there. News coverage and social media activities are also updated regularly.

**Research grants, awards and honors**

**NICLAS BURENHULT**
Jubilee Grant Language as key to perceptual diversity: an interdisciplinary approach to the senses.
Bank of Sweden Tercentenary Foundation (Riksbankens Jubileumsfond)

**MARIA GRAZIANO**
Bimodal narratives: Crosslinguistic perspectives on the interplay between speech and gesture in narrative discourse
Åke Wibergs Stiftelse

**MARIANNE GULLBERG**
Cohesion is heard and seen: A crosslinguistic study of gesture articulation in sustained discourse
The Crafoord Foundation (Crafoordska Stiftelsen)

On June 10 Marianne Gullberg was elected member (number 1682) of the Royal Swedish Academy of Sciences, discipline/class X of Humanities and for outstanding services to science.

**SUUSANNE SCHÖTZ**
Melody in human-cat communication (Meowsic)
The Marcus and Amalia Wallenberg foundation (Stiftelsen Marcus och Amalia Wallenberg’s Minnesfond)

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Dotation
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**Media**

- Burenhult, N. Svf Kultur: Experten: hälften av världens språk riskerar försvinna (Feb 8);
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- Frid, J & Schötz, S, Språktidningen: Tung forskning. (June)
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- Holmqvist, K. *Dagens Nyheter*: Långsamma pappersläsare minns mer (Sept 26)
- Gullberg, M. Språktidningen: En gläsliar brytning i gesterna. (March)
- Holmqvist, K. *Dagens Nyheter*: Långsamma pappersläsare minns mer (Sept 26)
Seminar series

DIGITAL TOOLS IN THE HUMANITIES
Humanities Lab and Joint Faculties of Humanities and Theology, Lund
2015-01-26 Johan Änhfeldt: Database solutions for publishing of data and networking on the internet
2015-02-26 Anna Nilsson Hammar and Joachim Östlund: LUB Digital Archive: Methods for presenting historical records and books for students, teachers and scholars
2015-03-30 Olof Sundin: On the scholarly printed publications vs the digital publications and the “individual” and the “collaborative” within the humanities and social sciences: What do we see today, and what could we see in the future?
2015-04-27 Elisabeth Gobransson: On aspects of crowd-sourcing and “peer-sourcing”
2015-10-14 “Hur gör vi våra osynliga forskningsdata synliga?”
Round table discussions

EYE-TRACKING SEMINAR
Humanities Lab, Lund.
21 weekly seminars, both working seminars and with invited guests during 2015.

2015-11-23 Digital Humanities: Opportunities and Challenges
Participants from the Centre for digital humanities, Gothenburg, HUMLab, Umeå, Linneuniversitetet, and NTNU Trondheim/University of College.
2015-11-27 Sofia Arvidsson, SND: How to make your research data available via SND

Lab Demos

During 2015, the lab hosted 46 lab demos.

International visitors:
• AS Datel, Estonia
• University of Cambridge
• Cardiff University
• University of Copenhagen
• University of Essex
• University of Florida
• University of Hong Kong
• Université Lumière de Lyon
• University of Michigan
• University of Nottingham
• University of Oregon
• University of Oslo
• University of Strasbourg

National visitors:
• Students and employees at Lund University (Archeology; the Biomedical Center; the University and Faculty administration; Educational sciences; Phonetics; Logopedics; Phoniatrics, and Audiology; Musicology; Philosophy; Psychology; Teacher Training Programme)
• Construction consultants, Akademiska Hus
• Kunskapskolalan Lund
• Lund Innovation System
• Lundinova AB
• Lund University Hospital
• Children from the Malmö Red Cross “Läxhjälpen”
• Gothenburg University
• Ambassadors from the Ministry for Foreign Affairs, members from Skåne County Administrative Board, and Lund Municipality
• NETL Conference (Network for Enhancing Teaching and Learning in Research-Intensive Universities)
• the Philology congress, Centre for Languages and Literature, Lund University
• Swedish University of Agricultural Sciences
• Stockholm University
• Swe-CLARIN Steering committee
• the Swedish minister for Higher Education, LU vice chancellor, and pro-vice chancellor for research
• the Swedish Science Council
• Tobii AB

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• the Swedish Science Council
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Conferences and workshops

March 11, 2015
Workshop Sve-Clarin national committee site visit
Lund University Humanities Lab
Johan Frid, Marianne Gullberg, Jens Larsson

March 27, 2015
Workshop Infrastructures for the Humanities
Lund University Humanities Lab
Marianne Gullberg, Johan Frid, Jens Larsson, DigitalHumLab DK

October 16 and October 19, 2015
Workshop on Infrastructural Support on Grant Writing (in Swedish)
Joint Faculties of Humanities and Theology, Lund University
Marianne Gullberg

Courses, tutorials, and lectures

The lab offers PhD courses accrediting students with 7,5 higher educational credits, but also short group tutorials. Staff members from the lab are also often invited as guest lecturers in other courses within and outside the university. During 2015, the lab offered the following:

COURSES
• Experimental design
• Statistical analysis for behavioural science I and II
• ERP research methods – theory and practice
• Eye tracking
• Programming for the behavioural sciences

TUTORIALS
• Introduction to the Humanities Lab
• 3D scanning
  – 3D Scanning and postprocessing
  – Triangulation scanner
  – Light interference scanner
  – 3D in archeology
  – Introduction to 3D scanning
• Audacity – basic sound recording and editing
• CLAN 1 – transcribing for beginners
• CLAN 2 – analysing
• PsychoPy – setting up an experiment
• LARM studio courses – audio and video recording

LECTURES IN OTHER COURSES
• Statistics in corpus linguistics
• Eye tracking
• Recordings and analyses of ERP data
• Cap training for new users of Easycap
• Speech and gesture in face-to-face communication: cross-cultural and cross-linguistic variations
• History of communication in television archives. Political communication
• Theories on language development
• Requirements for grammatical development
• Multilingualism and inter-culturalism
• Presentation of the Humanities Lab to new PhD students in the Humanities
• Brain and learning

Consulting

The Lab offered consultations on software, technology, and analyses on 104 occasions to internal and external users in the following areas:

• Audio recording equipment
• BioPac instructions
• Say after me and pronunciation exercises
• Discussant at luPOD seminar on grant applications
• E-prime
• Eye-tracking analysis
• Lättlästutredningen
• Matlab coaching
• Matlab EEG
• Praat
• PsychoPy
• Statistics
• Syllabified lexicons
• Web-based perception tests
Conference presentations

Native word order processing is not uniform: An ERP study of verb-second word order
Cognitive Neuroscience Society meeting, San Francisco, USA
Annika Andersson, Susan Sayehli, Marianne Gullberg

ScriptLog
Nordic Clarin Network, Copenhagen, Denmark
Johan Frid

Tongue articulation of front close vowels in Stockholm, Gothenburg and Malmöhus Swedish
International Congress of Phonetic Sciences, Glasgow, UK
Johan Frid, Susanne Schötz, Lars Gustafsson, Anders Lofquist

Do gestures compensate for speakers' expressive difficulties?
5th Conference of Scandinavian Association for Language and Cognition (SAALC VI), Trondheim, Norway
Maria Graziano, Marianne Gullberg

Methodological considerations for the study of intra-sentential code-switching
The 10th International Symposium on Bilingualism, Rutgers University, NJ, USA
Marianne Gullberg

Learning grammatical gender in a new language: The impact of prior language learning experience at first exposure
The Psychonomic Society Annual Meeting, Chicago, IL, USA
Carrie H. Jackson, Julia Hotzinger, Josine Greidanus, Marianne Gullberg

Digital Past: Re-creating pasts in museum settings as architecture or flesh and blood?
Nordic Tag, Copenhagen, DK
Bodil Persson, Carolina Larsson

Influence of pupil size on the dynamics of the eye tracker signal
28th CUNY conference on human sentence processing, University of Southern California, USA
Susan Sayehli, Annika Andersson, Marianne Gullberg

Code-switching within the noun phrase: Evidence from three corpora
The 10th International Symposium on Bilingualism, Rutgers University, NJ, USA
M. Carmen Parafita Couto, Marianne Gullberg

Comparison of pupil size on the dynamics of the eye tracker signal
European Conference on Eye Movements, Vienna, Austria
Marcus Nyström

A pilot study: Acoustic and articulatory data on tonal alignment in Swedish word accent
International Congress of Phonetic Sciences, Glasgow, UK
Susanne Schötz, Johan Frid, Malin Svensson Lundmark

Gifted talks & guest lectures

Intervention studies with children at the Brain Development Lab at UO
Pedagogisk neurovetenskap Network meeting, Stockholm University, Sweden
Annika Andersson

Voice onset time in heritage speakers and second language speakers of German
International Symposium on Monolingual and Bilingual Speech, Chania, Crete, Greece
Joost van de Weijer

The perception of intermediates – results from an eye-tracking experiment
Workshop "Contrast in perception, cognition and language", Verona, Italy
Joost van de Weijer, Marcus Nyström

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Inför Almedalsveckan: En hjärna med flera språk [For the Almedalsveckan: A brain with several languages]
Pedagogisk neurovetenskap Network meeting, Stockholm University, Sweden
Annika Andersson

‘Mapping categories of the past and present for the future: hunter-gatherer motion’
American Association for the Advancement of Science (AAAS) Annual Meeting, San Jose. Presentation at the invitation of the European Research Council.
Niclas Burenhult

Voice onset time in heritage speakers and second language speakers of German
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Niclas Burenhult
Presenter and discussant at ‘New Horizons for the Humanities and Social Sciences’ Seminar organized by the Bank of Sweden Tercentenary Foundation, Stockholm.

Niclas Burenhult

Do gestures have a compensatory function during expressive difficulties?

Workshop on Gesture-Speech Integration in Children’s Narratives, Munich, Germany

Maria Graziano

Att få grepp om betydelse: Vad ges -ter avslöjar om språk och språkinlär -ning

The Royal Swedish Academy of Letters, History and Antiquities, Stockholm

Marianne Gullberg

Språk, hjärna och lärande: Nya perspektiv på språkinlärning, flerspråkighet och språkundervisning

Fund-raising campaign

Jubileumssällskapet, Lund

Marianne Gullberg

Implicit language learning at first exposure across the lifespan - behavioural and neurocognitive evidence for implicit learning at first exposure across the lifespan

School of Psychology, University of Nottingham

Marianne Gullberg

Språkinlärning och flerspråkighet i ett psykologiintegrerat och multimodalt perspektiv

The Royal Swedish Academy of Sciences, class X, Stockholm

Marianne Gullberg

Att få grepp om betydelse: Vad ges ter avslöjar om språk och språkinlär ning

Uppsala Senioruniversitet

Marianne Gullberg

Keynote: Speaking and gesturing in language acquisition and bilingualism: The bimodal challenge

LangNet Closing Conference, Tampere

Marianne Gullberg

3D data in cultural heritage

Swedish eScience Academy eSSENCE, Stockholm

Stefan Lindgren

3D printing

Center for Textile Research, Copenhagen, Denmark

Carolina Larsson

3D printing

Institute of Cognitive Science, Osnabrück University

Marianne Gullberg

Language learning in 7 minutes? Behavioural and neurocognitive evidence for implicit learning at first exposure across the lifespan

School of Psychology, University of Nottingham

Marianne Gullberg

Why gestures are not (only) a compensatory device - evidence from language learners

Institute of Cognitive Science, Osnabrück University

Marianne Gullberg

Keynote: Eye-tracking South Africa 2015

ETSA 2015, Vanderbijlpark, South Africa

Kenneth Holmqvist

Keynote: Measures and visualizations from eye movement data

ETVIS (First Workshop on Eye Tracking and Visualization), Chicago, USA

Kenneth Holmqvist

3D data in cultural heritage

Swedish eScience Academy eSSENCE, Stockholm

Stefan Lindgren

3D documentation of Pompeii

Center for Textile Research, Copenhagen, Denmark

Stefan Lindgren

Eye-tracking – a tool to understand human behavior

Seminar in Mathematics Education, Örebro University, Sweden

Marcus Nyström

Exotic vowels and word accents in regional varieties of Swedish

Satellite Workshop to Phonetics and Phonology in Europe 2015, Cambridge, UK

Susanne Schölz

Visitors

Alena Holubcová

Masaryk University, Brno, Czech Republic

Ignace Hooge

Utrecht University, the Netherlands

Roy Hessels

Utrecht University, the Netherlands

John Jr-Hung Lin

National Chiao Tung University, Taiwan

Cieella Villasco

SMI SensoMotoric Instruments GmbH, Milan, Italy

Jasmin Leber, Irene Skuballa

University of Freiburg, Germany

Carla Fernandez

Pennsylvania State University, USA

Dawn Knight

University of Cardiff, UK

Halszka Jarodzka

Open University, the Netherlands

Ellen Kok

Maastricht University, the Netherlands

Nerijus Ramanauskas

Enigma Software Group USA

Paul McGraw, Neil Roach, Chris Scholes

University of Nottingham, UK

Chelsea Krajcik

School of Oriental and African Studies, University of London, UK

Naomi Levy

Bar Ilan University, Israel

Beatris Eno

The ETH Zurich, Switzerland

Yesim Sevinc

University of Oslo, Norway

Toke Reinholdt Fosgaard

Copenhagen Business School, Denmark

Cenek Sasinka

HumeLab, Brno, Czech Republic

Warren Ward

Fourward Technologies, USA

Samuel Hutton

University of Sussex, UK

Visitors
Staff members 2015

Stefan Ingi Adalbjörnsson
Researcher

Felix Ahlner
Corpus Assistant, PhD student Linguistics

Annika Andersson
Researcher

Niclas Burenhult
Researcher

Emanuela Campisi
Researcher

Love Eriksen
Researcher

Sara Farshchi
Project Assistant, PhD student English

Johan Frid
Local Coordinator Swe-CLARIN, Researcher

Henrik Garde
Systems Developer

Maria Graziano
Researcher

Josine Greidanus
Project Assistant

Marianne Gullberg
Director

Nils Holmberg
IT Assistant, PhD student Communication Studies

Martina Holmgren
Administrator

Kenneth Holmqvist
Researcher

Carolina Larsson
3D Assistant

Jens Larsson
Project Assistant

Stefan Lindgren
Research Engineer, Purchasing Coordinator

Fiona Mulvey
Researcher

Diederick C. Niehorster
Researcher

Jens Nørme
Motion Capture Assistant, PhD student Cognitive Science

Marcus Nyström
Researcher

Manuel Oliva
Project Assistant, PhD student Cognitive Science

Maja Petersson
Administrative Coordinator, Directory Administrator

Peter Roslund
Research Engineer, Purchasing Coordinator

Susan Sayehli
Researcher

Åsa Sang
Researcher

Frida Splendido
Educational Developer

Alexander Strukelj
Project Assistant, PhD student English

Joost van De Weijer
Methodologist, Researcher

Cecilia Whitehorn
Financial Administrator

Victoria Åkerlund
Project Assistant

Funders

- CRAFOORDSKA STIFTELSEN
- EINAR HANSENS ALLEHMS STIFTELSE
- KNUT OCH ALICE WALLENBERGS STIFTELSE
- RIKSBANKENS JUBILEUMSFOND
- STIFTELSEN MARCUS OCH AMALIA WALLENBERGS MINNESFOND
- VETENSKAPSRÅDET (LINNÉUS CENTRE CCL)
- ÅKE WIBERGS STIFTELSE
- THE JOINT FACULTIES OF HUMANITIES AND THEOLOGY