

## **XPRAG Scientific Report about the second visit**

In this second visit, Florian Schwarz visited Sonja Tiemann at the University of Tuebingen. The visit took place from the 11<sup>th</sup> December 2010 until the 19th of December 2011.

The agenda of this visit consisted both of various tasks regarding the analysis of experiments already run, as well as of planning for future work and publications and final preparations for a joint presentation at the workshop 'Formal Semantic Evidence' at the 2011 Amsterdam Colloquium.

We finished analyzing the data from the original eye tracking experiment (Expt1a), as well as of a follow-up rating experiment using the same materials. The results supported our initial hypothesis that presupposition-related effects appear almost immediately in processing, as reflected in increases in processing load indicated by increased reading times on the critical word. Interestingly, the effect does not show up, however, when the presupposition trigger 'wieder' ('again'), which we are focusing on, is embedded under negation. A follow-up rating study showed that as far as judgments are concerned, though, the materials with embedded 'wieder' exhibit the same degradation when the presupposition is not supported by the context.

One of the questions arising from the first two experiments is whether the time-course for the judgments for embedded 'wieder' differs from that of unembedded 'wieder'. This would support our interpretation of the lack of effect in reading times for the former, which sees the global interpretation as delayed in processing. We finalized the design and implementation of a further follow-up study that will directly tie together judgments and their timing by utilizing a 'stops-making-sense task'.

While a more extensive write-up of the results of the first series of experiments will have to wait until the second follow-up is completed, we began making plans for creating a manuscript to be submitted for journal publication.

We also began the data analysis process for our second experiment (Expt1b), the results of which are already beginning to look quite interesting. The last bit of data collection is still going on, but all the steps for data analysis for this study using the statistical program R are now in place in Tuebingen.

Another line of experiments using a different eye tracking paradigm, namely visual world studies, suggests itself given the first set of results, and we put together the design for two such studies that will investigate the time course of processing the presupposition of 'wieder' both in global contexts and in the scope of negation. The materials will be put together over the next month, with the goal of collecting data in the spring of 2012.

Finally, we also met with other members of the research group that Sonja Tiemann is part of in Tuebingen, to discuss possible future extensions of this work with other methodologies, in particular using EEG / ERP.