

Peter Baumann

Ph.D., Linguistics

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Education

- 2021 **Ph.D.**, *Linguistics (certificate in Cognitive Science)*, Northwestern University.
- 2014 **M.A.**, *Linguistics*, Northwestern University.
- 2011 **B.A. + M.A.**, *Portuguese, Cognitive Science, & Anthropology*, University of Freiburg.
(Magister Artium)
- 2009 **B.S. + M.S.**, *Physics*, University of Freiburg.
(Diplom)

Publications

- 2016 He, Y., **Baumann, P.**, Fang, H., Hutchinson, B., Jaech, A., Ostendorf, M., Fosler-Lussier, E., & Pierrehumbert, J. (2016). Using pronunciation-based morphological subwords to improve OOV handling in keyword search. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 24(1):79–92.
- 2015 Frazier, M., Ackerman, L., **Baumann, P.**, Potter, D., & Yoshida, M. (2015). Wh-filler-gap dependency formation guides reflexive antecedent search. *Frontiers in Psychology*, 6(1504).
Fang, H., Ostendorf, M., **Baumann, P.**, & Pierrehumbert, J. (2015). Exponential language modeling using morphological features and multi-task learning. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 23(12):2410–2421.
Baumann, P. (2015). The special status of color in pragmatic reasoning: evidence from a language game. In Noelle, D. C., Dale, R., Warlaumont, A. S., Yoshimi, J., Matlock, T., Jennings, C. D., & Maglio, P. P. (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society*, 178–183, Austin. Cognitive Science Society.
- 2014 Maier, W., Kaeshammer, M., **Baumann, P.**, & Kübler, S. (2014). Discosuite - a parser test suite for German discontinuous structures. In Calzolari, N., Choukri, K., Declerck, T., Loftsson, H., Maegaard, B., Mariani, J., Moreno, A., Odijk, J., & Piperidis, S. (Eds.), *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14)*, 2905–2912, Reykjavik. European Language Resources Association (ELRA).
He, Y., Hutchinson, B., **Baumann, P.**, Ostendorf, M., Fosler-Lussier, E., & Pierrehumbert, J. (2014). Subword-based modeling for handling OOV words in keyword spotting. In *2014 IEEE International Conference on Acoustic, Speech and Signal Processing (ICASSP)*, 7864–7868.
Baumann, P. & Pierrehumbert, J. (2014). Using resource-rich languages to improve morphological analysis of under-resourced languages. In Calzolari, N., Choukri, K., Declerck, T., Loftsson, H., Maegaard, B., Mariani, J., Moreno, A., Odijk, J., & Piperidis, S. (Eds.), *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14)*, 3355–3359, Reykjavik. European Language Resources Association (ELRA).

- Baumann, P.**, Konieczny, L., & Hemforth, B. (2014). Conversational implicatures in anaphora resolution: Alternative constructions and referring expressions. In Hemforth, B., Mertins, B., & Fabricius-Hansen, C. (Eds.), *Psycholinguistic Approaches to Meaning and Understanding across Languages*, 197–212. Springer, Heidelberg.
- Baumann, P.**, Clark, B., & Kaufmann, S. (2014). Overspecification and the cost of pragmatic reasoning about referring expressions. In Bello, P., Guarini, M., McShane, M., & Scassellati, B. (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society*, 1898–1903, Austin. Cognitive Science Society.
- Baumann, P.** (2014). Dependencies and hierarchical structure in sentence processing. In Bello, P., Guarini, M., McShane, M., & Scassellati, B. (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society*, 152–157, Austin. Cognitive Science Society.
- 2013 **Baumann, P.** (2013). Syntactic category disambiguation within an architecture of human language processing. In Knauff, M., Pauen, M., Sebanz, N., & Wachsmuth, I. (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*, 1833–1838, Austin. Cognitive Science Society.
- 2011 Wolk, C., Wolfer, S., **Baumann, P.**, Hemforth, B., & Konieczny, L. (2011). Acquiring English dative verbs: Proficiency effects in German L2 learners. In Carlson, L., Höscher, C., & Shipley, T. (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, 2401–2406, Austin. Cognitive Science Society.
- Baumann, P.**, Konieczny, L., & Hemforth, B. (2011). Pragmatic expectations and coreference: How alternative constructions and referring expressions can serve as cues. In Carlson, L., Höscher, C., & Shipley, T. (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, 3293–3298, Austin. Cognitive Science Society.
- Auer, P., **Baumann, P.**, & Schwarz, C. (2011). Vertical vs. horizontal change in the traditional dialects of southwest Germany: A quantitative approach. *Taal en Tongval*, 63(1).
- 2010 Konieczny, L., Weldle, H., Wolfer, S., Müller, D., & **Baumann, P.** (2010). Anaphora and local coherences. In Ohlsson, S. & Catrambone, R. (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, 1204–1209, Austin. Cognitive Science Society.
- Hemforth, B., Konieczny, L., Scheepers, C., Colonna, S., Schimke, S., **Baumann, P.**, & Pynte, J. (2010). Language specific preferences in anaphor resolution: Exposure or Gricean maxims. In Ohlsson, S. & Catrambone, R. (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, 2218–2223, Austin. Cognitive Science Society.
- 2009 Weldle, H., Konieczny, L., Müller, D., Wolfer, S., & **Baumann, P.** (2009). Connectionist modeling of situated language processing: Language and meaning acquisition from an embodiment perspective. In Taatgen, N., van Rijn, H., & Schomaker, L. (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society*, 827–832, Austin. Cognitive Science Society.

Presentations and Posters

- 2016 Kim, N., **Baumann, P.**, Hall, K., Schumacher, R., & Yoshida, M. (2016). The processing of why. Poster presented at *Annual Meeting of the Linguistic Society of America*, Washington, DC, January 7-10.
- 2015 Frazier, M., **Baumann, P.**, Ackerman, L., Potter, D., & Yoshida, M. (2015). Does wh-filler-gap dependency formation resolve local ambiguity? Talk presented at *CUNY Conference on Human Sentence Processing*, Los Angeles, CA, March 19-21.

- Baumann, P.** & Yoshida, M. (2015). A psycholinguist asking who binds himself: Interference effects in the processing of reflexives. Poster presented at *CUNY Conference on Human Sentence Processing*, Los Angeles, CA, March 19-21.
- Baumann, P.**, Kazanina, N., & Yoshida, M. (2015). Online processing respects a pragmatic constraint or Hurford's constraint. Poster presented at *CUNY Conference on Human Sentence Processing*, Los Angeles, CA, March 19-21.
- Baumann, P.**, Hall, K., Kim, N., Schumacher, R., & Yoshida, M. (2015). The processing of adjunct wh-questions. Poster presented at *CUNY Conference on Human Sentence Processing*, Los Angeles, CA, March 19-21.
- 2014 Frazier, M., **Baumann, P.**, Ackerman, L., Potter, D., & Yoshida, M. (2014). Wh-dependency resolution interrupts reflexive antecedent search on-line. Poster presented at *Architectures and Mechanisms for Language Processing (AMLaP)*, Edinburgh, UK, September 3-6.
- Frazier, M., **Baumann, P.**, Ackerman, L., Potter, D., & Yoshida, M. (2014). Local coherence effects and crossing reflexive- and wh-dependencies. Poster presented at *CUNY Conference on Human Sentence Processing*, Columbus, OH, March 13-15.
- Baumann, P.** & Yoshida, M. (2014). Memory retrieval favors referential antecedents: Interference effects in the processing of reflexives. Poster presented at *Architectures and Mechanisms for Language Processing (AMLaP)*, Edinburgh, UK, September 3-6.
- Baumann, P.** (2014). An empirical test of Hurford's constraint and its generalizations. Talk presented at *SWAMP/GWAMP*, Milwaukee, WI, October 18.
- Baumann, P.** (2014). An empirical challenge of Hurford's constraint and structural economy, and a possible solution. Talk presented at *Sinn und Bedeutung 19*, Göttingen, Germany, September 15-17.
- 2013 Frazier, M., **Baumann, P.**, Ackerman, L., Potter, D., & Yoshida, M. (2013). Intervention by gaps in online sentence processing. Poster presented at *Architectures and Mechanisms for Language Processing (AMLaP)*, Marseilles, France, September 2-4.
- Baumann, P.** & Yoshida, M. (2013). Locality and binding: Local coherences influence binding of reflexives in reading. Talk presented at *Architectures and Mechanisms for Language Processing (AMLaP)*, Marseilles, France, September 2-4.
- Baumann, P.** (2013). How modular is lexical category disambiguation? Poster presented at *CUNY Conference on Human Sentence Processing*, Columbia, SC, March 21-23.
- 2012 Müller-Feldmeth, D., **Baumann, P.**, Wolfer, S., & Konieczny, L. (2012). A connectionist model of graded effects in local syntactic coherence interpretation. Poster presented at *CUNY Conference on Human Sentence Processing*, New York, NY, March 14-16.
- Baumann, P.** (2012). The role of hierarchical structure in syntactic dependency integration. Talk presented at *CUNY Conference on Human Sentence Processing*, New York, NY, March 14-16.
- 2011 Wolk, C., **Baumann, P.**, Wolfer, S., Hemforth, B., & Konieczny, L. (2011). Acquiring English dative verbs: Proficiency effects in German L2 learners. Poster presented at *CUNY Conference on Human Sentence Processing*, Stanford, CA, March 24-26.
- Müller, D., **Baumann, P.**, Wolfer, S., & Konieczny, L. (2011). Still ambiguous: Statistical properties influence local coherence interpretation - evidence from a visual world experiment and connectionist modeling. Poster presented at *Architectures and Mechanisms for Language Processing (AMLaP)*, Paris, France, September 1-3.

- 2010 Weldle, H., Konieczny, L., Wolfer, S., **Baumann, P.**, & Müller, D. (2010). Local syntactic coherences violate structural binding domains in on-line anaphora resolution. Talk presented at *CUNY Conference on Human Sentence Processing*, New York, NY, March 16-20.
- Weldle, H., Konieczny, L., Müller, D., Wolfer, S., & **Baumann, P.** (2010). Emergence of language comprehension from multiple task integration - a connectionist investigation. Poster presented at *CUNY Conference on Human Sentence Processing*, New York, NY, March 16-20.
- Baumann, P.**, Konieczny, L., & Hemforth, B. (2010). Expecting coreference: the role of alternative constructions. Poster presented at *CUNY Conference on Human Sentence Processing*, New York, NY, March 16-20.
- 2009 Weldle, H., **Baumann, P.**, Müller, D., Wolfer, S., & Konieczny, L. (2009). Connectionist modelling of syntax and anaphora resolution. Poster presented at *CUNY Conference on Human Sentence Processing*, Davis, CA, March 26-28.
- Konieczny, L., Müller, D., **Baumann, P.**, Hachmann, W., & Wolfer, S. (2009). Local syntactic coherence interpretation, and how prosody modulates it. Poster presented at *CUNY Conference on Human Sentence Processing*, Davis, CA, March 26-28.
- Baumann, P.**, Konieczny, L., Müller, D., Hachmann, W., & Wolfer, S. (2009). Local syntactic coherence interpretation and its interaction with prosody: Evidence from two visual-world studies. Poster presented at *European Conference on Eye Movements (ECEM)*, Southampton, UK, August 22-26.

Research Experience

- 2015 **Research Assistant**, *Wordovators Project (John Templeton Foundation)*, PI: Janet Pierrehumbert.
Northwestern University
- 2012-2014 **Research Assistant**, *Babel Project: Team Swordfish (IARPA)*, PI: Nelson Morgan (International Computer Science Institute, UC Berkeley).
Northwestern University
- 2010-2011 **Research Assistant**, *Freiburg Institute for Advanced Studies (FRIAS)*, PI: Lars Konieczny.
University of Freiburg
- 2009-2010 **Research Assistant**, *Project 'Phonological Change in the Alemannic Dialects of Southwest Germany' (DFG)*, PI: Peter Auer.
University of Freiburg
- 2009-2010 **Research Assistant**, *Project 'Empirical Analysis of Local Coherence Processing in Sentence Comprehension' (DFG)*, PI: Lars Konieczny.
University of Freiburg

Teaching Experience

- Spring '19 **Instructor**, *Speech Acts and the SPEAK Test*.
Northwestern University, English Language Programs
- Winter '19 **Teaching Assistant**, *Language, Politics, and Identity / Slavic Civilizations*, Prof. E. Elliott.
Northwestern University, Department of Slavic Languages and Literatures
- Fall '18 **Teaching Assistant**, *Sound Patterns in Human Language*, Prof. D. Strori.
Northwestern University, Department of Linguistics
- Summer '18 **Teaching Assistant**, *The Language of Teaching and Learning*, Prof. E. Leddon.
Northwestern University, English Language Programs

- Spring '18 **Tutor**, *Individual Speech and Language Tutoring for Nonnative Speakers of English*.
Northwestern University, English Language Programs
- Winter '18 **Teaching Assistant**, *Formal Analysis of Words and Sentences*, Prof. E. Leddon.
Northwestern University, Department of Linguistics
- Fall '17 **Tutor**, *Individual Speech and Language Tutoring for Nonnative Speakers of English*.
Northwestern University, English Language Programs
- Spring '17 **Teaching Assistant**, *Meaning*, Prof. L. Rissman.
Northwestern University, Department of Linguistics
- Fall '16 **Teaching Assistant**, *Meaning*, Prof. B.. Clark.
Northwestern University, Department of Linguistics
- Winter '16 **Teaching Assistant**, *Formal Analysis of Words and Sentences*, Prof. E. Leddon.
Northwestern University, Department of Linguistics
- Fall '15 **Teaching Assistant**, *Formal Analysis of Words and Sentences*, Prof. M. Yoshida.
Northwestern University, Department of Linguistics
- Fall '14 **Teaching Assistant**, *Formal Analysis of Words and Sentences*, Prof. E. Leddon.
Northwestern University, Department of Linguistics
- Summer '11 **Instructor**, *Descriptive Statistics for Linguists*.
University of Freiburg, Department of German Linguistics
- Summer '11 **Teaching Assistant**, *Introduction to Linguistics*, Prof. P. Auer.
University of Freiburg, Department of German
- Winter '10 **Teaching Assistant**, *Introduction to Linguistics*, Prof. P. Auer.
University of Freiburg, Department of German
- Summer '08 **Teaching Assistant**, *Experimental Physics II*, Prof. G. Hertel.
University of Freiburg, Department of Physics
- Winter '07 **Teaching Assistant**, *Connectionist Language Processing*, Prof. L. Konieczny.
University of Freiburg, Center for Cognitive Science

Languages

- Natural German, English, Portuguese, Italian, (Spanish, French, Russian)
- Formal Python, R, Julia, SQL, Scheme, JavaScript, C, Haskell

Grants & Awards

Fellowships

- 2013-2014 **Advanced Cognitive Science Fellowship**, *Northwestern University*.
- 2011-2012 **Graduate Fellowship**, *Northwestern University*.
- 2002-2008 **Student Fellowship**, *Konrad-Adenauer-Stiftung*.

Awards & Travel Grants

- 2013 **Travel grant**, *The Graduate School, Northwestern University*.
- 2012 **CUNY Student Presenter Award**, *CUNY Conference on Human Sentence Processing (CUNY, New York, NY)*.
- 2010 **Travel grant**, *CUNY Conference on Human Sentence Processing (NYU, New York, NY)*.

Service

Reviewer

- 2018–2019 Computer Assisted Language Learning
- 2017 CUNY Conference on Human Sentence Processing
- 2010–2017 Annual Meeting of the Cognitive Science Society
- 2016 Semantics and Syntax Workshop of the American Midwest and Prairies (SSWAMP)
- 2012 Topics in Cognitive Science

Committees

- 2012–2019 **Admissions Committee**, Department of Linguistics, Northwestern University.
- 2016 **Organizing Committee**, *Semantics and Syntax Workshop of the American Midwest and Prairies (SSWAMP)*, Departments of Linguistics and Philosophy, Northwestern University.
- 2009–2010 **Faculty Hiring Committee**, Center for Cognitive Science, University of Freiburg.