

ARILD G. HESTVIK

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EDUCATION

- 2000-2003 NIH T32 postdoctoral trainee, Speech-Language-Hearing Science, CUNY Graduate Center, New York. Mentor/PI: Richard G. Schwartz.
- 1984-1990 PhD Brandeis University, Department of Psychology, Program in Linguistics and Cognitive Science. Doctoral dissertation: *LF-Movement of Pronouns and the Computation of Binding Domains*. Advisor: Jane Grimshaw.
- 1981-1984 Candidatus magisterii, University of Trondheim, Norway (linguistics, computer science, English).

EMPLOYMENT

- 2007-now Department of Linguistics and Cognitive Science, University of Delaware
-Associate professor 2007-2010, tenured 2010, full professor 2022
-Joint appointment, Dept of Psychological and Brain Sciences 2014-current
-Adjunct scientist, Nemours Biomedical Research, Wilmington 2010-current
- 2003-2006 PhD Program in Speech-Language-Hearing Science, CUNY Graduate Center
-Research associate (NIH 5R03DC006175; PI: A. Hestvik)
- 1995-2006 Department of Linguistic and Literary Studies, University of Bergen
-Associate professor with tenure 1995-1997, full professor with tenure 1997
-Professor II (20%) School of Psychology 2001-2005
- 1990-1995 Institut für maschinelle Sprachverarbeitung, Universität Stuttgart
Researcher BAT-IIa, German Science Foundation SFB 340 (PI: Hans Kamp)

OTHER EMPLOYMENT

- 2006-2007 Consultant, Butler Hill Group
- Fall 1993 Visiting professor, Department of Linguistics and Philosophy, University of Oslo

AWARDS AND FELLOWSHIPS

- Jan 2023 Visiting researcher, Waseda Institute for Advanced Study, Tokyo
- July 1987 Stanford University, CSLI, summer Research Fellow
- June 1986 Linguistic Society of America Tuition Fellowship
- 1984-1986 ITT International Fellow (Brandeis University) 1984-1986
- July 1984 Nordic Council summer stipend (University of Iceland)
- May 1984 Fulbright Travel Fellowship [declined]

RESEARCH GRANTS

2023	National Science Foundation “Conference: Brain activity measures in phonological research.” BCS-Linguistics award 2240381 for organizing <i>PhonolEEGy 2</i> at UMASS Amherst/LSA Summer Institute of Linguistics 2023. A. Hestvik (PI), V. Shafer (Co-PI), T. Scheer (consultant).	\$49,703
2022-2027	National Institutes of Health R01 “Improving the retention of speech-perceptual learning in adults with and without language disorder”, Dr. Sayako Earle (PI). Role: consultant.	<i>funded</i>
2021-2023	National Science Foundation “ Evoked Category Representations ,” A. Hestvik (PI), Chao Han (co-PI). Doctoral Dissertation Research Improvement Grant BCS-2041266.	\$19,200
2019-2021	Neuroscience Training Program, support by UD College of Arts and Sciences Associate Dean’s Office; support for lab supplies.	\$2000
2018-2019	Waseda University, Tokyo, Japan. “ERP evaluation of the Perceptual Assimilation Model: Japanese speakers’ perception of English vowels.” Y. Shinohara (PI), A. Hestvik (co-PI). Japan Society for Promotion of Science KAKENHI grant.	\$4000
2015-2017	National Institutes of Health Cobre pilot grant P30GM114736 “ From signal to symbol: Where is the auditory processing deficit? ” NIH COBRE grant. Kyoko Nagao (PI), Arild Hestvik (mentor), Thierry Morlet (mentor). Institutional Development Award from the National Institute of General Medical Sciences of the NIH (PI: Thomas H. Shaffer).	\$120,000
2009-2010	General University Research (GUR) grant, University of Delaware “Language Dependent Asymmetry in Neural Representation of Speech.” A. Hestvik (PI).	\$7,800
2007-2010	UNIDEL grant, University of Delaware Startup funds for building ERP lab, University of Delaware. A. Hestvik (PI).	\$200,000
2003-2006	National Institutes of Health “ Structural representation and sentence processing in SLI ,” A. Hestvik (PI). NIH National Institute of Deafness and other Communicative Disorders grant 5R03DC006175 to the Research Foundation of the City University of New York.	\$225,000
2006	European Science Foundation, COST-Action A33. “Cross-linguistically robust stages of children’s linguistic performance with applications to the diagnosis of specific language impairment”. Dr. Uli Sauerland (PI), University of Tübingen, Germany. Role: Member, management committee.	

- 2004-2006 German Science Foundation (DfG)
 “The Structure of the Left Periphery in Germanic Languages – CP-and IP-related elements in normal and impaired speech.” Dr. Frank Burchert (PI), University of Potsdam, Germany. Role: Member of scientific network.
- 2000 University of Bergen ca. \$3000
 “Health and Welfare” grant from the University of Bergen, for initiating research projects in speech and hearing science. A. Hestvik (PI).
- 2000 Norwegian Research Council/*Maison des Sciences de l'Homme* ca. \$2500
 A. Hestvik (PI). AURORA-grant from the *Norwegian Research Council* and the *French Science Foundation (MSH)*. Collaborative research with Pierre Pica, CNRS, France.
- 2000 Meltzer Foundation, University of Bergen ca. \$10,000.
 “Norwegian Theoretical Grammar Simulator.” A. Hestvik (PI), Lars Johnsen (co-PI). Collaborative research with Sandiway Fong and David Lebeaux of NEC Research Institute, Princeton, USA.
- 1997-1999 Norwegian Research Council & Meltzer Foundation ca. \$132,000
 “Linguistic Processing Indicated by Event-Related Brain Potentials.” A. Hestvik (PI), Helge Nordby (co-PI), Biological and Medical Psychology, University of Bergen. Jointly funded by *Norwegian Research Council* ca \$100,000, and *Meltzer Foundation*, ca. \$32,000.
- 1999 Meltzer Foundation ca. \$12000
 “Basic and applied research at the interface between psychology and linguistics,” A. Hestvik (PI). Grant for organizing international workshop, School of Psychology, University of Bergen.
- 1996 Research Exchange program, University of Bergen and Utrecht University, NL.
 “Norwegian Children's Knowledge of Binding Theory.” A. Hestvik (PI). Collaborative research with Dr. William Philip, Utrecht University, The Netherlands, ~\$6350. One-semester visiting professorship for Philip, ~\$12000.
- 1995 University of Bergen Faculty for the Arts research grant ca. \$5800
 “On-Line Interpretation of Anaphora in Ellipsis.” A. Hestvik (PI), Lewis Shapiro (co-PI), San Diego State University, CA, USA.

PUBLICATIONS

44. Shinohara, Y., Han, C., & Hestvik, A. (2023). English Vowel Discrimination and Perceptual Assimilation by Japanese Listeners. *Language and Speech*, OnlineFirst November 24, 2023. <https://doi.org/10.1177/00238309231209311>
43. Hestvik, Arild, Thierry Morlet, Kyoko Nagao, and Chao Han. 2023. “Auditory Processing Disorder Targets Phonetics , Not Phonology.” In *BUCLD 47: Proceedings of the 47th Annual Boston University Conference on Language Development*, edited by Paris Gappmayr and Jackson Kellogg, 356–65. Somerville, MA: Cascadilla Press. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10410628>
42. Hestvik, A., Scharinger, M., Shafer, V. L., Lahiri, A. (2022). Editorial: Phonological Representations and Mismatch Negativity Asymmetries. *Frontiers in Human Neuroscience*, 16:916074. <https://www.frontiersin.org/articles/10.3389/fnhum.2022.916074/>
41. Hestvik, A., Shafer, V. L., Lahiri, A., & Scharinger, M. (Eds.). (2022). *Phonological Representations and Mismatch Negativity Asymmetries*. Frontiers Media SA. <https://doi.org/10.3389/978-2-88974-733-7> (e-book).
40. Hestvik, A., Epstein, B., Schwartz, R. G., & Shafer, V. L. (2022). Developmental Language Disorder as Syntactic Prediction Impairment. *Frontiers in Human Communication: Language Sciences* 6. <https://doi.org/10.3389/fcomm.2021.637585>
39. Dong, R., Han, C., Hestvik, A., & Hermon, G. (2022). L2 Processing of Filled Gaps: Nativelike Proficiency but Non-native Brain Activity. *Linguistic Approaches to Bilingualism*. <http://doi.org/10.1075/lab.20058.don>
38. Shinohara, Y., Han, C., & Hestvik, A. (2022). Familiarity and discriminability of non-native vowels. *Studies in Second Language Acquisition*. <https://doi.org/10.1017/S0272263121000978>
37. Rhodes, R., Avcu, E., Han, C., & Hestvik, A. (2022). Auditory predictions are phonological when phonetic information is variable. *Language, Cognition and Neuroscience*. <https://doi.org/10.1080/23273798.2022.2043395>
36. Dong, Z. R., Rhodes, R., & Hestvik, A. (2021). Active Gap Filling and Island Constraint in Processing the Mandarin “Gap-type” Topic Structure. *Frontiers in Communication* 6. <https://doi.org/10.3389/fcomm.2021.650659>
35. Palaz, B., Rhodes, R., & Hestvik, A. (2020). [Informative use of “not” is N400-blind](https://doi.org/10.1111/psyp.13676). *Psychophysiology*. <https://doi.org/10.1111/psyp.13676>
34. Avcu, E., & Hestvik, A. (2020). [Unlearnable phonotactics](https://doi.org/http://doi.org/10.5334/gjgl.892). *Glossa: A Journal of General Linguistics*, 5(1). <https://doi.org/http://doi.org/10.5334/gjgl.892>

33. Hestvik, A., Shinohara, Y., Durvasula, K., Verdonschot, R., & Sakai, H. (2020). Abstractness of human speech sound representations. *Brain Research*, 1732(1 April 2020). <https://doi.org/10.1016/j.brainres.2020.146664>
32. Datta, H., Hestvik, A., Vidal, N., Tessel, C., Hisagi, M., Wróbleski, M., & Shafer, V. L. (2020). [Automaticity of speech processing in early bilingual adults and children](#). *Bilingualism: Language and Cognition*, 23(2), 429–445. <https://doi.org/10.1017/S1366728919000099>
31. Rhodes, R., Han, C., & Hestvik, A. (2019). [Ad hoc phonetic categorization and prediction](#). In S. Calhoun, P. Escudero, M. Tabain, & P. Warren (Eds.), *Proceedings of the 19th International Congress for Phonetic Sciences* (pp. 2344–2348). Melbourne, Australia: Australasian Speech Science and Technology Association Inc.
30. Avcu, E., Rhodes, R., & Hestvik, A. (2019). [Neural Underpinnings of Phonotactic Rule Learning](#). In K. Hout, A. Mai, A. McCollum, S. Rose, & M. Zaslansky (Eds.), *Proceedings of the Annual Meetings on Phonology* (Vol. 7, Issue 0). Linguistic Society of America. <https://doi.org/10.3765/AMP.V7I0.4487>
29. Shinohara, Y., Han, C., & Hestvik, A. (2019). [The perception of English vowels /æ/, /ʌ/, and /ɑ/ by Japanese speakers](#). Peer-reviewed; in S. Calhoun, P. Escudero, M. Tabain, & P. Warren (Eds.), *Proceedings of the 19th International Congress for Phonetic Sciences* (Issue August, pp. 2344–2348). Australasian Speech Science and Technology Association Inc.
28. Rhodes, R., Han, C., & Hestvik, A. (2019). [Phonological memory traces do not contain phonetic information](#). *Attention, Perception, & Psychophysics*, 81, 897-911. <https://doi.org/10.3758/s13414-019-01728-1>
27. Hestvik, A., & Durvasula, K. (2016). [Neurobiological evidence for voicing underspecification in English](#). *Brain and Language*, 152, 28–43. <https://doi.org/10.1016/j.bandl.2015.10.007>
26. Schwartz, R. G., Hestvik, A., Seiger, L., & Almodovar, D. (2016). [Processing binding relations in Specific Language Impairment](#). *Journal of Speech Language and Hearing Research*, 59(6), 1384–1394. https://doi.org/10.1044/2016_JSLHR-L-15-0107
25. Epstein, B., Hestvik, A., Shafer, V. L., & Schwartz, R. G. R. G. (2013). [ERPs reveal atypical processing of subject versus object Wh-questions in children with specific language impairment](#). *International Journal of Language & Communication Disorders*, 48(4), 351–65. <https://doi.org/10.1111/1460-6984.12009>
24. McCauley, S. M., Hestvik, A., & Vogel, I. (2013). [Perception and Bias in the Processing of Compound versus Phrasal Stress: Evidence from Event-related Brain Potentials](#). *Language and Speech*, 56(1), 23–44. <https://doi.org/10.1177/0023830911434277>

23. Hestvik, A., Bradley, E., & Bradley, C. (2012). [Working Memory Effects of Gap-Predictions in Normal Adults: An Event-Related Potentials Study](https://doi.org/10.1007/s10936-011-9197-8). *Journal of Psycholinguistic Research*, 41(6), 425–438. <https://doi.org/10.1007/s10936-011-9197-8>
22. Fortunato-Tavares, T., de Andrade, C. R. F., Befi-Lopes, D. M., Hestvik, A., Epstein, B., Tornyova, L., & Schwartz, R. G. (2012). [Syntactic structural assignment in Brazilian Portuguese-speaking children with specific language impairment](https://doi.org/10.1044/1092-4388(2011/10-0215)). *Journal of Speech, Language, and Hearing Research*, 55(4), 1097–1111. [https://doi.org/10.1044/1092-4388\(2011/10-0215\)](https://doi.org/10.1044/1092-4388(2011/10-0215))
21. Hestvik, A., Schwartz, R. G., & Tornyova, L. (2010). [Relative Clause Gap-Filling in Children with Specific Language Impairment](https://doi.org/10.1007/s10936-010-9151-1). *Journal of Psycholinguistic Research*, 39(5), 443–456. <https://doi.org/10.1007/s10936-010-9151-1>
20. Bradley, E. D., & Hestvik, A. (2009). [Testing the sensory hypothesis of the early left anterior negativity with auditory stimuli](#). In *Linguistic Society of America Annual Meeting Extended Abstracts*.
19. Vogel, I., Hestvik, A., Bunnell, T., & Spinu, L. (2009). [Perception of English compound vs. phrasal stress: Natural vs. synthetic speech](#). Peer-reviewed; In *Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH* (pp. 1699–1702).
18. Fortunato-Tavares, T., Rocha, C. N., Andrade, C. R. F. de, Befi-Lopes, D. M., Schochat, E., Hestvik, A., & Schwartz, R. G. (2009). [Processamento linguístico e processamento auditivo temporal em crianças com distúrbio específico de linguagem](https://doi.org/10.1590/S0104-56872009000400003). *Pró-Fono Revista de Atualização Científica*, 21(4), 279–284. <https://doi.org/10.1590/S0104-56872009000400003>
17. Hestvik, A., Maxfield, N. D., Schwartz, R. G., & Shafer, V. L. (2007). [Brain responses to filled gaps](https://doi.org/10.1016/j.bandl.2006.07.007). *Brain and Language*, 100(3), 301–316. <https://doi.org/10.1016/j.bandl.2006.07.007>
16. Hestvik, A., Nordby, H., & Karlsen, G. (2005). [Antecedent reactivation by surface and deep anaphora in Norwegian](https://onlinelibrary.wiley.com/doi/10.1111/j.1467-9450.2005.00452.x). *Scandinavian Journal of Psychology*, 46(3), 229–238. <https://onlinelibrary.wiley.com/doi/10.1111/j.1467-9450.2005.00452.x>
15. Sekerina, I. A., Stromswold, K., & Hestvik, A. (2004). [How do adults and children process referentially ambiguous pronouns?](https://doi.org/10.1017/S0305000903005890) *Journal of Child Language*, 31(1), 123–152. <https://doi.org/10.1017/S0305000903005890>
14. Shapiro, L. P., Hestvik, A., Lesan, L., & Garcia, A. R. (2003). [Charting the time-course of VP-ellipsis sentence comprehension: Evidence for an initial and independent structural analysis](https://doi.org/10.1016/S0749-596X(03)00026-3). *Journal of Memory and Language*, 49(1), 1–19. [https://doi.org/10.1016/S0749-596X\(03\)00026-3](https://doi.org/10.1016/S0749-596X(03)00026-3)

13. Hestvik, A., & Philip, W. (2001). [Syntactic vs. logophoric binding: Evidence from Norwegian child language](#). In P. Cole, G. Hermon, & J. Huang (Eds.), *Long Distance Reflexives* (Vol. 33). New York: Academic Press.
12. Hestvik, A., & Philip, W. (2000). [Binding and Coreference in Norwegian Child Language](#). *Language Acquisition*, 8(3), 171–235. https://doi.org/10.1207/S15327817LA0803_1
11. Berman, S., & Hestvik, A. (1997). [Split Antecedents, Noncoreference, and DRT](#). In H. Bennis, P. Pica, & J. Rooryck (Eds.), *Atomism and Binding*. Foris: Dordrecht.
10. Shapiro, L. P., & Hestvik, A. (1995). [On-line comprehension of VP-ellipsis: Syntactic reconstruction and semantic influence](#). *Journal of Psycholinguistic Research*, 24(6), 517–532. <https://link-springer-com.udel.idm.oclc.org/article/10.1007/BF02143165>
9. Hestvik, A. (1995). [Reflexives and ellipsis](#). *Natural Language Semantics*, 3(2), 211–237. <http://doi.org/10.1007/BF01249838>
8. Hestvik, A. (1995). Mentale grammatikker og barns språktilegnelse. In C. Fabricius-Hansen & A. M. Vonen (Eds.), *Språklig kompetanse : hva er det, og hvordan kan det beskrives?* Oslo: Novus.
7. Hestvik, A. (1992). [LF Movement of Pronouns and Antisubject Orientation](#). *Linguistic Inquiry*, 23(4), 557–594. <http://www.jstor.org/stable/4178790>
6. Hestvik, A. (1992b). [Lars Hellan: Anaphora in Norwegian and the Theory of Grammar](#). Book review, *Norsk Lingvistisk Tidsskrift*.
5. Berman, S., & Hestvik, A. (1992). Proceedings of the Stuttgart Ellipsis Workshop. In *Arbeitspapiere des Sonderforschungsbereichs 340, Sprachtheoretische Grundlagen für die Computerlinguistik* (Vol. 29). Stuttgart: Universitäten Stuttgart und Tübingen in Kooperation mit der IBM Deutschland.
4. Hestvik, A. (1991). [Subjectless Binding Domains](#). *Natural Language and Linguistic Theory*, 9(3), 455–496. <https://link-springer-com.udel.idm.oclc.org/article/10.1007/BF00135355>
3. Berman, S., & Hestvik, A. (1991). [LF: A critical survey](#). *Arbeitspapiere des SFB340, Sprachtheoretische Grundlagen Für Die Computerlinguistik*. Heidelberg: IBM Germany.
2. Hestvik, A. (1990). [Against the notion “Governing Category.”](#) In *Proceedings of the Ninth West Coast Conference on Formal Linguistics*. Stanford University, Center for the Study of Language and Information.
1. Hestvik, A. (1986). [Case Theory and Norwegian Impersonal Constructions: Subjects-Object Alternations in Active and Passive Verbs](#). *Nordic Journal of Linguistics*, 9(2), 181–197. <https://doi.org/10.1017/S0332586500001499>

INVITED PRESENTATIONS (limited to last 10 years)

- 2023 Invited speaker, Waseda Institute for Advanced Study Visiting Researcher Seminar “[Cognitive Neuroscience of Language](#)”: 1. Implications of within-category MMN with varying standards; 2. N170 evidence for early processing of binding and no intrusion effects; 3. Non-incremental processing of negation; 4. Children with specific language impairment exhibits syntactic prediction failure.”, Faculty of Science and Engineering, Nishiwaseda Campus, Waseda University, Jan 27-30, 2023.
- 2022 Invited speaker, “On the effect of ‘varying the standards’ in linguistic MMN experiments,” Methodology symposium, The 9th Mismatch Negativity Conference (MMN 2022), Sept. 21-23, Fukushima Medical University, Fukushima, Japan.
- 2022 Invited speaker, Laboratoire Bases, Corpus, Langage; Université Côte d’Azur, France. June 23-24, 2022.
- 2019 Colloquium speaker, Department of Linguistics, Wien, Austria. (declined)
- 2019 [Discussant presentation](#), LSA Annual Meeting, symposium, “The Nature of Children’s Representations of Subject-Verb Agreement in the Context of Variation: Insights from Production, Comprehension and Brain Imaging.” Organizer: Isabelle Barrière, LIU-Brooklyn & YVY Research Institute.
- 2018 “Automaticity of speech processing in early bilingual adults and children,” Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastián, Spain. Invited speaker, colloquium series.
- 2018 “[Using brain waves as linguistic evidence](#),” May 29, 2018, Norwegian Institute of Science and Technology, Trondheim, Norway.
- 2017 “MMN evidence for phonological underspecification”, colloquium, Feb 6, 2017, Department of Linguistics, Stony Brook University, NY. Invited speaker, colloquium series.
- 2016 “Brain responses to voicing underspecification,” Mental Architectures for Processing and Learning of Language, annual conference, July 23, 2016, Waseda University, Tokyo. Invited speaker at conference.
- 2016 “Using the brain to find evidence for linguistic theory: The case of underspecification,” Feb 4, 2016 Department of Linguistics, Memorial University of Newfoundland, St Johns, Canada. Invited speaker, colloquium series.

- 2012 “Differentiating phonetic from phonological speech sound representations in the brain”, June 21, 2012, Project Center for Brain Science of Language and Cognition, Graduate School of Education, Hiroshima University, Hiroshima, Japan. Host: Dr. Hiromu Sakai. Invited speaker, colloquium series.
- 2012 “Differentiating phonetic from phonological speech sound representations in the brain”, June 11, 2012, Translational Science Research Seminar, Nemours Research/A.I. DuPont Hospital, Wilmington, DE. Host: Dr. Thierry Morlet. Invited speaker.
- 2012 “Syntactic dependency completion, working memory, and its implications for Specific Language Impairment,” June 23, 2012, Institute for Linguistics Sciences, Kobe Shoin Women’s University, Kobe, Japan. Host: Dr. Taisuke Nishigauchi and Dr. Takao Gunji. Invited speaker, colloquium series.
- 2011 “Syntactic dependency completion in children with SLI and low WM adults,” Linguistics Colloquium, Department of Linguistics, Rutgers University. Invited speaker, colloquium series.

RECENT CONFERENCE PRESENTATIONS (last 10 years)

- Han, C., Hestvik, A., Idsardi, W. (2023) “Memory Trace Retention of Phonetic Details with a Category Representation,” spoken presentation at [PhonolEEGy 2](#), Linguistic Society of America Summer Institute, UMASS/Amherst, June 24, 2023.
- Hestvik, A., Morlet, T., Nagao, K. & Han, C. (2022) “Auditory Processing Disorder targets phonetics, not phonology.” Spoken presentation, the 47th Boston University Conference on Language Development, Nov 3-6, 2022, Boston, MA, USA.
- Han, C., Hestvik, A., & Rhodes, R. (2022). “What does varying the standards in an MMN paradigm really do?” Poster presentation, *Annual Meeting of the Society for Neurobiology of Language*. Philadelphia, PA: University of Pennsylvania, October 2022.
- Han, C., Rhodes, R., W. Idsardi & Hestvik, A. (2022). “Symbolic vs. gradient phonemes.” Poster presentation, Annual Meeting of the Society for Neurobiology of Language, University of Pennsylvania, USA, October 2022.
- Han, C., Rhodes, R., W. Idsardi & Hestvik, A. (2022). “Symbolic vs. gradient phonemes.” Poster presentation, 9th Mismatch Negativity Conference (MMN 2022), Sept 21-23, Fukushima Medical University, Fukushima, Japan.
- Hestvik, A., & Yoo, Mye H. (2021). Evidence for early application of binding theory and late intrusion effects. Poster presentation at [Linguistic illusions in sentence processing 2021](#), Universität Konstanz, Germany.

- Hestvik, A., & Yoo, Mye H. (2021). Evidence for early application of binding theory and late intrusion effects. Short talk at 2021 *CUNY Sentence Processing Conference*, University of Pennsylvania, Philadelphia. [[Abstract](#) | [Presentation](#)]
- Hestvik, A., Valerie, L. S., & Schwartz, R. G. (2021). Irregular and regular verbs elicit identical morphological decomposition ERPs. Short talk at 2021 *CUNY Sentence Processing Conference*, University of Pennsylvania, Philadelphia. [[Abstract](#) | [Presentation](#)]
- Sarkar, S., & Hestvik, A. (2020). [Gradient effects and categorical perception co-exist](#). Annual meeting of the Acoustic Society of America, *The Journal of the Acoustical Society of America*, 148(4), 2503–2503.
- Hestvik, A., Epstein, B., Shafer, V. L., & Schwartz, R. G. (2020). [Syntactic prediction impairment is detectable with ERPs, not with behavioral measures](#). *Behavioral Measures of Language Acquisition and Language Processing in Typical and Atypical Populations*, Ca' Foscari University, Venice, Italy. [recorded presentation due to COVID]
- Yoo, M. H., & Hestvik, A. (2020). “ERP index of temporally delayed intrusive binding”. Poster Presentation at the 2020 *Society for the Neurobiology of Language Annual Meeting*, October 21-24, 2020.
- Palaz, B., Rhodes, R. & Hestvik, A. (2020) Informative use of “not” is N400-blind. Poster Presentation at the 2020 *Society for the Neurobiology of Language Annual Meeting*, October 21-24, 2020.
- Yoo, M. H., & Hestvik, A. (2020). The overt gender marking does not dampen intrusion effect in reflexive processing. Poster presentation, *Annual CUNY Sentence Processing Conference*, Amherst, MA.
- Rhodes, R., Avcu, E., & Hestvik, A. (2020). [Encoding and Representation of Phonetically-Varying Speech Sounds \(video\)](#). *PhonolEEGy: Electrophysiology and phonological theory. Workshop Series in Cognitive Science*, Maison des Sciences de l'Homme et de la Société Sud-Est, Nice, France.
- Enes Avcu, Rhodes, R., & Hestvik, A. (2020). [Locality Matters: Neural responses show local, but not piecewise learning](#). *PhonolEEGy: Electrophysiology and phonological theory. Workshop Series in Cognitive Science*, Maison des Sciences de l'Homme et de la Société Sud-Est, Nice, France.
- Palaz, B., Rhodes, R., & Hestvik, A. (2019). On the non-incremental processing of negation: Evidence from ERPs. Spoken presentation at *Discourse Expectations: Theoretical, Experimental, and Computational Perspectives (DETEC2019)*. Berlin, Germany: Leibniz-Zentrum Allgemeine Sprachwissenschaft.
- Hestvik, A. (2019). [Invited discussant](#), Symposium "The Nature of Children's Representations of Subject-Verb Agreement in the Context of Variation: Insights from Production,

Comprehension and Brain Imaging" Panel Discussion. *The 93rd Annual Meeting of the Linguistic Society of America (LSA)*

- Enes Avcu, Rhodes, R., & Hestvik, A. (2019). Computational Complexity in Phonotactics Modulates Brain Response Evidence from EEG. *Annual Meeting on Phonology*. Stony Brook, NY: Stony Brook University.
- Rhodes, R., Avcu, E., & Hestvik, A. (2019). Phonemic and Phonetic Representation in Auditory Prediction. *Annual Meeting on Phonology*. Stony Brook, NY: Stony Brook University.
- Shinohara, Y., Chao, H., and Hestvik, A. (2019). The perception of English vowels /æ/, /ʌ/, and /ɑ/ by Japanese speakers. Poster presentation at the *International Congress of Phonetic Sciences*, Melbourne, Australia, August 5-9, 2019.
- Rhodes, R. Han, C., Hestvik, A (2019) "Ad Hoc Phonetic Categorization and Prediction. Oral conference presentation", spoken presentation at the *International Congress of Phonetic Sciences*, Melbourne, Australia.
- Avcu, E., Rhodes, R. & Hestvik, A. (2019). Neural Tracking of Implicit vs. Explicit Phonotactic Learning. *Generative Linguistics in the Old World (GLOW 42)* annual conference, *Workshop on Rules and Learning Strategies in the Acquisition of Signed and Spoken Phonologies*. University of Oslo, Norway.
- Rhodes, R., Han, C., & Hestvik, A. (2018). The Ad hoc perceptual grouping of speech sounds in the varying standards oddball paradigm. Poster, *8th International Mismatch Negativity Conference*. Helsinki, Finland.
- Avcu, E., Rhodes, R., Chao, H., & Hestvik, A. (2018). Neural Underpinnings of Phonotactic Rule Learning. *The 49th Annual Meeting of the North East Linguistic Society*, 1–2.
- Shinohara, Y., Hestvik, A., Durvasula, K., Verdonschot, R. G., & Sakai, H. (2017). Cross-linguistic differences in MMN asymmetry: Voicing underspecification in Japanese. Poster, *8th International Mismatch Negativity Conference*. Helsinki, Finland.
- Rhodes, R., Han, C., Hestvik, A., Chao, H., & Hestvik, A. (2017). The Ad hoc Perceptual Grouping of Speech Sounds in the Varying Standards Oddball Paradigm. *Cognitive Neuroscience Society Annual Meeting*, 2, 484.
- Shinohara, Y., Hestvik, A., Verdonschot, R. G., Durvasula, K., & Sakai, H. (2017). Cross-linguistic differences in MMN asymmetry: Voicing underspecification in Japanese. *Neurobiology of Language*. Baltimore, MD.
- Dong, Z. R., Rhodes, R., & Hestvik, A. (2017). Island Constraint and Reanalysis in Processing Mandarin Topic Structure: An ERP Study. *CUNY Sentence Processing Conference* (p. 2009).

- Pereira, O., Hestvik, A., Morlet, T., (2017) [Neurophysiological speech processes in children with auditory processing disorder](#). Middle States Conference, Acoustic Society of America.
- Datta, H., Hestvik, A., & Shafer, V. L. (2016). Differences in T-complex measures of vowel sounds in bilingual and monolingual children. *Annual Meeting of the Cognitive Neuroscience Society*.
- Durvasula, K., & Hestvik, A. (2014). [Speaking beats listening: Evidence that motor activity out-primes auditory activity during speech perception](#). Spoken presentation at *Annual Neurobiology of Language Conference*. San Diego, CA.
- Tebaldi, J., Bristol, R. & Hestvik, A. (2013). [Electrophysiological evidence of an emotional blink: Negative emotional content impairs language processing](#). Spoken presentation, Penn Linguistic Consortium, University of Pennsylvania, Philadelphia, PA.
- Dong, R., & Hestvik, A. (2013). [Processing of tense morphology and filler-gap dependencies by Chinese second language speakers of English](#). *International Conference on Multilingualism*. Montreal, QB.

DISSERTATION ADVISING AND TEACHING

Doctoral dissertations:

- 2023 Chao Han, “The nature of phoneme representation in various-standard oddball paradigm,” future position: Postdoctoral scientist, University of Toronto.
- 2019 Ryan Rhodes, “*Phonetic and phonemic predictions in auditory memory*,” current position: Assistant professor/postdoc, Rutgers Center for Cognitive Science, Rutgers University, New Brunswick, NJ. <https://wavyphd.com/research>
- 2019 Enes Avcu, “*Using cognitive neuroscience to understand leaning mechanisms: Evidence from phonological processing*,” current position: Post-doctoral scientist, Gow laboratory, Harvard Medical School/Massachusetts General Hospital, Harvard University, Boston, MA.
- 2016 Ramirez Sarmiento, Angel M. A. (2016). “*ERP signatures of attachment height variations in English and Spanish*.”
- 2014 Renee Dong, “*Processing of tense morphology and filler-gap dependencies by Chinese second language speakers of English*,” current position: Assistant professor, Department of Literatures, Languages, and Cultures, University of Delaware.

Graduate advising:

- 2010 Stewart McCauley (Master’s degree in Cognitive Science). Current position: Assistant professor, Dept. of Communication Sciences, University of Iowa.
- 2007-09 PhD adviser for Evan Bradley, Department of Linguistics and Cognitive Science. Current position: Assistant professor, Dept. of Psychology, State University of Pennsylvania at Brandywine.

- 2005 Doctoral thesis committee member, Nathan Maxfield, CUNY “Cortical indices of picture name encoding times in fluent and stuttering adults.” Current position: Associate professor, Department of Communication Sciences & Disorders, University of South Florida.
- 2005 Master’s thesis adviser for Ketil Berntzen, University of Bergen masters thesis: “*V-Movement and Question Production in Norwegian Broca's Aphasia.*”

Laboratory training:

- 2019- Neuroscience Training Program
 Training graduate students in experimental methodology for EEG recordings and ERP experiments, including experimental design, software programming, instrumentation, signal processing, artifact correction, derivation of ERPs, statistical and exploratory data analysis, reporting standards. With support from the Dean’s Office, College of Arts and Sciences, University of Delaware.
- 2010-2021 University of Delaware Research Office Summer Scholars (undergraduates): Catherine Bradley (2008-2010), Samantha Scharf (2016), Lena Herman (2019)
- 2018 McNair Scholars: Teresa Highberger, Adassa Phillips

Courses taught:

- 2007-2021 *University of Delaware*
 LING 100 Introduction to Linguistics
 CGSC170/270 Introduction to Cognitive Science
 LING 202 Structure of Language
 CGSC 420 Research Methods in Cognitive Science
 CSGC 470/670 Elements of Cognitive Science
 CGSC485 Senior Seminar (Specific Language Impairment)
 CGSC 496/696 Psycholinguistics (undergrad)
 LING697 Experimental linguistics
 NSCI630 Integrative Neuroscience (guest lectures)
 LING890 Seminars on event-related potentials research and technique
- 1995-2006 *University of Bergen*
 Introduction to linguistics, Introduction to phonology, Introduction to syntactic Theory, Introduction to historical linguistics, Introduction to psycholinguistics, Formal semantics, Language acquisition and development, Typology and language universals, Introduction to linguistics for speech and hearing science

SERVICE

2019-2020 Guest Associate Editor, Research Topic: “[Phonological Representations and Mismatch Negativity Asymmetries](#),” *Frontiers in Human Neuroscience* - Speech and Language, *Frontiers in Psychology* - Auditory Cognitive Neuroscience.

1996-2016 Member, editorial board, *Journal of Comparative Germanic Linguistics*, Springer.

2006-

Grant reviewer

European Science Foundation College of Expert Reviewers (member, 2018-)
National Science Foundation (SBE/Linguistics) ad hoc grant reviewer
National Science Foundation Linguistics Panel (2023)
National Institutes for Health (NICHD/NIDCD) grant reviewer
European Science Foundation grant reviewer
The Israel Science Foundation/NSF grant reviewer
NIH study section, American Speech-Hearing Association Foundation (2007).
Belgian Federal Office for Scientific Technical and Cultural Affairs (2006).
Dutch Research Council (NWO) (2023)

Ad hoc journal reviewer

Language, Linguistic Inquiry, Natural Language and Linguistic Theory
Nordic Journal of Linguistics, Journal of Pragmatics
Journal of Comparative Germanic Linguistics, Language Acquisition
Journal of Speech Language, and Hearing Research
International Journal of Language & Communication Disorders
Language and Speech, Scientific Reports, Brain Research, Brain and Language
Language, Cognition and Neuroscience, Neuropsychologia
Frontiers in Psychology, PLoS ONE, Cognition, Journal of Neurolinguistics
Scandinavian Journal of Psychology, Journal of Psycholinguistic Research
Neurobiology of Language, Laboratory Phonology, NeuroImage
Journal of Experimental Psychology: Learning, Memory and Cognition

Conference abstracts reviewer

Boston University Conference of Language Development (annually)
Penn Linguistics Consortium (annually)

Service to the University of Delaware

2019 Evaluator for Sypherd Prize, University of Delaware

2019-current Member, University of Delaware Neuroscience Committee.

2013-current Member, COCAN committee, University of Delaware

2017-current Departmental senator, University Faculty Senate

2015-2018 Department Senator, College of Arts and Sciences Faculty Senate

2019-current: At-large elected senator, College of Arts and Sciences Faculty Senate

2017-2019 Member, College of Arts and Sciences Promotion and Tenure Committee

2014 Member, search committee, Dept of Psychological and Brain Sciences.