

Noah Haskell Silbert

Education

Degrees

Ph.D. in Linguistics and Cognitive Science, Indiana University, 2010

M.S. in Applied Statistics, Indiana University, 2010

M.A. in English as a Second Language, University of Hawai'i, 2002

B.A. with distinction in Linguistics, Indiana University, 1998

Professional Development

Diagnostic Measurement: Theory, Methods, and Applications Workshop, University of Maryland, 2010

Introduction to Structural Equation Modeling Workshop, University of Maryland, 2011

Advanced Topics in Structural Equation Modeling Workshop, University of Maryland, 2011

Experience

Research

August, 2013 – Current: Director, Acoustics, Modeling, Perception, & Speech (AMPS) Laboratory, Department of Communication Sciences & Disorders, University of Cincinnati

August, 2010 – August, 2013: Assistant Research Scientist, Center for Advanced Study of Language, University of Maryland

September, 2007 – July, 2010: Graduate Research Assistant, NIH Grant, Perceptual Processes, Evidence, and Configurality, Principal Investigator James T. Townsend

September, 2006 – August, 2007: NIH Pre-doctoral Fellow, Cognitive Modeling Training Grant, director James T. Townsend

May, 2006 – August, 2006: Graduate Research Assistant, Audiology Research Laboratory, director Larry Humes

January, 2006 – May, 2006: Graduate Research Assistant, NSF Project, Prosody in Cross-Language Production and Perception, Principal Investigator Kenneth de Jong

September, 2003 – December, 2005: Graduate Research Assistant, Linguistic Speech Laboratory, director Kenneth de Jong

Teaching

Workshops

October, 2016: Instructor, Workshop on Bayesian Data Analysis. A workshop given at the University of Utah, Salt Lake City, UT.

May, 2016: Instructor, Bayesian Data Analysis. A short course given at the 171st Meeting of the Acoustical Society of America, Salt Lake City, UT.

University of Cincinnati

August, 2013 – Current: Instructor, Current Topics in Communication Sciences & Disorders, Department of Communication Sciences & Disorders, University of Cincinnati

August, 2013 – Current: Instructor, Research Methods in Health Sciences, Department of Communication Sciences & Disorders, University of Cincinnati

January, 2017 – April, 2017: Computer Programming for Communication Sciences and Disorders, Department of Communication Sciences & Disorders, University of Cincinnati

August, 2015 – December, 2015: Multivariate Statistics, Department of Communication Sciences & Disorders, University of Cincinnati

May, 2015 – August, 2015: Statistical Signal Processing, Department of Communication Sciences & Disorders, University of Cincinnati

August, 2014 – December, 2014: Computer Programming for Communication Sciences and Disorders, Department of Communication Sciences & Disorders, University of Cincinnati

September, 2007 – May, 2008; September, 2008 – May, 2009: Grader, Introduction to Bayesian Data Analysis I & II, Department of Psychological and Brain Sciences, taught by Professor John Kruschke

January, 2007 – May, 2007; September, 2008 – December, 2008: Assistant Instructor, Introduction to Mathematical Psychology, Department of Psychological and Brain Sciences, taught by Professor James T. Townsend

September, 2005 – December, 2005: Instructor, Introduction to the Study of Language, Department of Linguistics, Indiana University.

July, 2005 – August, 2005: Instructor, Statistical Techniques, Department of Psychological and Brain Sciences, Indiana University.

January, 2005 – May, 2005: Assistant Instructor, Introductory Phonetics, taught by Professor Robert Port

September, 2004 – December, 2004: Instructor, Phonology, Department of Linguistics, Indiana University.

September, 2003 – December, 2003; January, 2004 – May, 2004: Assistant Instructor, Introduction to the Study of Language, taught by Professor Samuel Obeng (2003), taught by Sean McLennan (2004)

July, 2001 – August, 2001: Nihon University, Mishima, Japan, and Outreach College. Teaching Assistant, pronunciation and oral fluency, and Student Interchanger, ESL conversation tutoring. Supervisor Judy Ensing.

Publications *Under Review*

- Keelor, J., Creaghead, N., **Silbert, N. H.**, & Horowitz-Kraus, T. (under review) Text-to-speech technology: Enhancing reading comprehensions for students with reading difficulty.
- Speights, M., MacAuslan, J., Boyce, S. E., **Silbert, N. H.** (under review) Performance evaluation of Landmark Syllabic Cluster Analysis Algorithm for automatic syllable detection.
- Hamilton, S. M., **Silbert, N. H.**, McAllister Byun, T., Preston, J. L., Sotto, C., Boyce, S. E. (under review) Modeling category goodness judgments in children with residual sound errors.
- Zadeh, L. M., Karimi, L. J., & **Silbert, N. H.** (under review) Effect of bilingualism on auditory capacity.

Published

- Silbert, N. H.** & Thomas, R. D. (2017) Identifiability and testability in GRT with individual differences. *Journal of Mathematical Psychology*, 77, 187-196.
- Howard, Z. L., Eidels, A., **Silbert, N. H.** & Little, D. R. (in press). Can confusion data inform SFT-like inference? A comparison of SFT and accuracy-based measures in comparable experiments. To appear in D. R. Little, N. Altieri, M. Fific & C-T. Yang (Eds.). *Systems Factorial Technology: A Theory Driven Methodology for the Identification of Perceptual and Cognitive Mechanisms*. Elsevier.
- Vandam, M., & **Silbert, N. H.** (2016) Fidelity of Automatic Speech Processing for Adult and Child Talker Classifications. *PLoS ONE*, 11 (8).
- Silbert, N. H.** & Hawkins, R. X. D. (2016) A tutorial on general recognition theory. *Journal of Mathematical Psychology*. *Journal of Mathematical Psychology*, 73, 94-109.
- Silbert, N. H.**, de Jong, K., Regier, K., & Albin, A. (2015) The mapping between phonological categories and acoustic cues in the production of English obstruents. *Journal of the Acoustical Society of America*, 138 (6), 3834-3845.
- Johnson, R, Clark, J.G., Martin, D., and **Silbert, N.H.** (2015) Pitch discrimination task performance with musicians wearing musicians earplugs™. *Canadian Audiologist*, 2 (6).
- Silbert, N. H.**, Smith, B. K., Jackson, S. R., Campbell, S. G., Hughes, M. M., & Tare, M. (2015) Non-native phonemic discrimination, phonological short term memory, and word learning. *Journal of Phonetics*, 50, 99-119.
- Thomas, R. D., Altieri, N. A., **Silbert, N. H.**, Wenger, M. J., & Wessels, P. M. (2015) Multidimensional signal detection decision models of the uncertainty task: Application to face perception. *Journal of Mathematical Psychology*, 66, 16-33.
- Vandam, M., Oller, D. K., Ambrose, S. E., Gray, S. Richards, J. A., Xu, D., Gilkerson, J., **Silbert, N. H.**, & Moeller, M. P. (2015) Automated vocal analysis of children with hearing loss and their typical and atypical peers. *Ear & Hearing*, 36, 146-152.

- Golonka, E., Bowles, A., **Silbert, N. H.**, Kramasz, D., & Blake, C. (2015) The role of cognitive effort in vocabulary learning: A study of intermediate-level learners of Arabic. *The Modern Language Journal*, 99, 19-39.
- Silbert, N. H.** & Thomas, R. D. (2014) Optimal response selection and decisional separability in Gaussian general recognition theory. *Journal of Mathematical Psychology*, 60, 72-81.
- Silbert, N. H.** (2014) Syllable structure and perception of voicing and place of articulation in English stop consonants. *Laboratory Phonology*, 5 (2), 289-335.
- Thomas, R. D., & **Silbert, N. H.** (2013) Technical clarification to Silbert and Thomas (2013): "Decisional separability, model identification, and statistical inference in the general recognition theory framework." *Psychonomic Bulletin & Review*, 21 (2), 574-575.
- Linck, J. A., Hughes, M. M., Campbell, S. G., **Silbert, N. H.**, Tare, M., Jackson, S. R., Smith, B. K., Bunting, M. F., & Doughty, C. J. (2013) Cognitive and perceptual abilities classify successful high-proficiency language learners: Potential components of high-level language aptitude. *Language Learning*, 63 (3), 530-566.
- Landy, D., **Silbert, N. H.**, & Goldin, A. (2013) Estimating large numbers. *Cognitive Science*, 37, 775-799.
- Silbert, N. H.** & Thomas, R. D. (2013) Decisional separability, model identification, and statistical inference in the general recognition theory framework. *Psychonomic Bulletin & Review*, 20 (1), 1-20.
- Townsend, J. T., Houpt, J. W., & **Silbert, N. H.** (2012) General Recognition Theory Extended to Include Response Times: Predictions for a Class of Parallel Systems. *Journal of Mathematical Psychology*, 56 (6), 476-494.
- Silbert, N. H.** (2012) Syllable structure and integration of voicing and manner of articulation information in labial consonant identification. *Journal of the Acoustical Society of America*, 131 (5), 4076-4086.
- Silbert, N. H.**, Townsend, J. T., & Lentz, J. J. (2009) Independence and separability in the perception of complex non-speech sounds. *Attention, Perception & Psychophysics*, 71 (8), 1900-1915.
- Silbert, N. H.**, de Jong, K., Thomas, R. D., & Townsend, J. T. (2009) Diagonal d' does not (always) diagnose failure of separability: An addendum to Kingston, Diehl, Kirk, and Castleman (2008) *Journal of Phonetics*, 37, 339-343.
- de Jong, K., **Silbert, N.**, & Park, H. (2009) Generalization across segments in second language consonant identification. *Language Learning*, 59 (1), 1-31.
- Silbert, N.**, & de Jong, K. (2008) Focus, prosodic context, and phonological feature specification: Patterns of variation in fricative production. *Journal of the Acoustical Society of America*, 123 (5), 2769-2779.
- Silbert, N.**, & de Jong, K. (2007) Laryngeal Feature Structure in 1st and 2nd Language Speech Perception. In J. Trouvain and W.J. Barry (eds.), *Proc. of the 16th ICPhS, Saarland University, Saarbrücken, Germany*. pp. 1901-1905. www.icphs2007.de/conference/book_of_abstracts.pdf

Technical Reports

- Michael, E. B., Colflesh, G., Karuzis, V., Key, M., Cook, S., **Silbert, N. H.**, Green, C., Browne, E., Rytting, C. A., Pelzl, E., & Bunting, M. (2013) Perceptual training for second language speech perception: Validation study to assess the efficacy of a new training regimen. Report for Technical Task Order 2013. 31 pp.
- Rytting, C. A., **Silbert, N. H.**, Rodrigues, P., Buckwalter, T., Novak, V., Madgavkar, M., & Bills, A. (2013) An auditory perception study of non-native Arabic. CASL Report for Technical Task Order 1005. 63 pp.
- Silbert, N. H.**, Smith, B. K., Jackson, S. R., Meyers, J. H., Campbell, S. G., Hughes, M. M., & Tare, M. (2013) Non-native phonemic discrimination, working memory, and word learning. CASL Report for Technical Task Order 2003. 27 pp.
- Golonka, E., Brugman, C., Bowles, A., **Silbert N. H.**, Kramasz, D., Richardson, D., Corbett, R., & Doughty, C. J. (2012) Foreign language vocabulary: Effective practices for learning and teaching. CASL Report for Technical Task Order 82122. 155 pp.
- Wayland, S., O'Connell, S., Linck, J., Kramasz, D., Gynther, K., Bloomfield, A., Blodgett, A. & **Silbert, N. H.** (2012) Second Language Listening Comprehension: The impact of speech rate, passage length, and information density. CASL Report for Technical Task Order 81434. 50 pp.
- Jackson, S. R., **Silbert, N. H.**, Campbell, S. G., Linck, J. A., Hughes, M. M., Doughty, C. J., & Bunting, M. F. (2012) The operational impact of DLAB2: Summary of recommendations and success-rate simulation. CASL Report for Technical Task Order 82114. 31 pp.
- Jackson, S.R., Linck, J.A., Mislevy-Hughes, M.A., **Silbert, N.H.**, Campbell, S.G., Doughty, C.J., & Bunting, M.F. (2012) The predictive capabilities of DLAB2: Results of additional analyses by language and by skills (Technical Report TTO 82114 7). College Park, MD: University of Maryland Center for Advanced Study of Language.
- Wayland, S., **Silbert, N. H.**, O'Connell, S., Linck, J., Kramasz, D., Gynther, K., Bloomfield, A., & Blodgett, A. (2012) Second Language Listening Comprehension. CASL Report for Technical Task Order 81434. 40 pp.
- Linck, J. A., Hughes, M. M., Campbell, S. G., **Silbert, N. H.**, Tare, M., Jackson, S. R., Smith, B. K., Wall, D. G., Meyers, J. H., Bunting, M. F., & Doughty, C. J. (2012) Hi-LAB identifies successful high-proficiency language learners: Results of the group discrimination study. CASL Report for Technical Task Order 2105. 56 pp.
- Bunting, M. F., Bowles, A. R., Campbell, S. G., Linck, J. A., Mislevy, M. A., Jackson, S. R., Tare, M., **Silbert, N. H.**, Koeth, J. T., Blake III, C. C., Smith, B. K., Corbett, R., Willis, R. G., & Doughty, C. J. (2011) Reinventing DLAB: Potential new predictors of success at DLIFLC. CASL Report for Technical Task Order 82114. 628 pp.

Presentations and Posters

- Silbert, N. H.** (2016) Making decisions about modeling decision-making when analyzing speech perception data. Talk given at the 172nd Annual Meeting of the Acoustical Society of America.
- Rathsam, J., **Silbert, N. H.**, Ballard, K., & Lee, J. (2016) Comparison between multilevel and traditional logistic regression analysis of laboratory indoor annoyance caused by shaped sonic booms. Talk given at the 172nd Annual Meeting of the Acoustical Society of America.
- Park, H. & **Silbert, N. H.** (2016) Speaker similarity, acoustic properties, and perceptual learning with non-native speech. Poster presented at the 172nd Annual Meeting of the Acoustical Society of America.
- Silbert, N. H.** & Lentz, J. (2016) Dimensional interactions in the perception of frequency and bandwidth. Poster presented at the 172nd Annual Meeting of the Acoustical Society of America.
- Lentz, J. & **Silbert, N. H.** (2016) Using Markov chain Monte Carlo algorithms to estimate auditory perceptual abilities. Poster presented at the 172nd Annual Meeting of the Acoustical Society of America.
- Keelor, J., Creaghead, N., & **Silbert, N. H.**, Horowitz-Kraus, Z. (2016) Text-to-speech technology: Correlation with reading profiles of students with dyslexia. Poster presented at the 2016 American Speech-Language-Hearing Association Convention.
- Keelor, J., Creaghead, N., & **Silbert, N. H.**, Horowitz-Kraus, Z. (2016) Text-to-speech technology: Impact on reading comprehension for students with dyslexia. Poster presented at the 2016 American Speech-Language-Hearing Association Convention.
- Silbert, N. H.**, & Motlagh Zadeh, L. (2016) Phonetic information transmission in the perception of speech masked by multi-talker babble. Talk given at the 49th Annual Meeting of the Society for Mathematical Psychology.
- Landy, D., **Silbert, N. H.**, & Marghetis, T. (2016) Measuring the wisdom of nations. Talk given at the 49th Annual Meeting of the Society for Mathematical Psychology.
- VanDam, M., De Palma, P., & **Silbert, N. H.** (2016) Fidelity of Automatically Coded Family Speech of Mothers, Fathers, and 30 month-old Children with and without Hearing Loss. Talk given at the 2016 International Conference on Infant Studies.
- Silbert, N. H.**, & Motlagh Zadeh, L. (2016) Analysis of available and listener-received phonetic information in babble-masked consonant identification. Poster presented at the 171st Annual Meeting of the Acoustical Society of America.
- VanDam, M., & **Silbert, N. H.** (2015) Fidelity of automatic speech recognition labeling. Talk given at the American Speech-Language Hearing Association Convention, Denver, CO.
- Silbert, N. H.**, & Motlagh Zadeh, L. (2015) Listener characteristics and the perception of speech in noise. Poster presented at the 170th Annual Meeting of the Acoustical Society of America.

- Groves, K., Kelchner, L., & **Silbert, N. H.** (2015) Detecting swallowed material in the airway: Location matters. Poster presented at the 23rd Annual Meeting of the Dysphagia Research Society.
- Hamilton, S., Boyce, S. E., **Silbert, N. H.**, & Mosko, K. (2015) How speaker identity interacts with perceptual judgments in children with residual sound errors. Poster presented at the 170th Annual Meeting of the Acoustical Society of America.
- Silbert, N. H.**, & Motlagh Zadeh, L. (2015) Talker variation in the perception of speech in noise. Poster presented at the 169th Annual Meeting of the Acoustical Society of America.
- Motlagh Zadeh, L., Jalilvand Karimi, L., & **Silbert, N. H.** (2015) The comparison of auditory capacity between bilinguals and monolinguals by consonant-vowel dichotic test. Poster presented at the 169th Annual Meeting of the Acoustical Society of America.
- Groves, K., Kelchner, L., & **Silbert, N. H.** (2014) Listening for dysphagia: Vocal indicators of material in the airway. Poster presented at the 2014 ASHA Convention.
- Michael, E. B., Colflesh, G. J. H., Karuzis, V. P., Key, M., Cook, S. V., **Silbert, N. H.**, Green, C. R., Browne, E., Rytting, C. A., Pelzl, E., A., & Bunting, M. F. (2014) Discrimination and identification training for Mandarin and Korean speech perception. Poster presented at the 55th Annual Meeting of the Psychonomic Society.
- Silbert, N. H.**, & Houpt, J. W. (2014) Modeling response times to analyze perceptual interactions in complex non-speech perception. Poster presented at the 168th Meeting of the Acoustical Society of America.
- Silbert, N. H.**, & Park, H. (2014) Statistical relationships between phonological categories and acoustic-phonetic properties of Korean consonants. Poster presented at the 168th Meeting of the Acoustical Society of America.
- Rytting, C. A., Rodrigues, P., Buckwalter, T., Novak, V., Bills, A., **Silbert, N. H.**, & Madgavkar, M. (2014) ArCADE: An Arabic Corpus of Auditory Dictation Errors. Proceedings of the 9th Workshop on Innovative Use of NLP for Building Educational Applications.
- Silbert, N. H.**, & Houpt, J. W. (2014) Using LBA to model RTs collected in the GRT paradigm. Talk given at the 47th Annual Meeting of the Society for Mathematical Psychology.
- Silbert, N. H.**, & Houpt, J. W. (2014) Using LBA to model RTs collected in the GRT paradigm. Poster presented at the 36th Annual Cognitive Science Conference.
- Thomas, R., & **Silbert, N. H.** (2014) Decisions about decisions in the GRT can be tough to come by. Talk given at the 47th Annual Meeting of the Society for Mathematical Psychology.
- Silbert, N. H.**, & Houpt, J. W. (2014) Using LBA to model RTs collected in the GRT paradigm. Talk given at the 4th Annual Midwestern Cognitive Science Conference.
- Vandam, M. & **Silbert, N. H.** (2014) Automatic speech recognition of naturalistic recordings in families with children who are hard of hearing. Talk presented at the 167th Meeting of the Acoustical Society of America.

- Silbert, N. H.**, de Jong, K., Regier, K., Albin, A., & Hao, Y.-C. (2014) Acoustic properties of multi-talker babble. Poster presented at the 167th Meeting of the Acoustical Society of America.
- Vandam, M. & **Silbert, N. H.** (2013) Characteristics of automatic and human speech recognition processes. Talk presented at the 166th Meeting of the Acoustical Society of America.
- Silbert, N. H.**, de Jong, K., Lim, B.-J., & Nagao, K. (2013) Effects of native language and speech rate on perceptual and decisional processing of voicing and syllable affiliation in stops. Poster presented at the 166th Meeting of the Acoustical Society of America.
- Silbert, N. H.**, Smith, B. K., & Jackson, S. R. (2013) Phonological structure, non-native phoneme discrimination, working memory, and word learning. Poster presented at the 21st International Congress on Acoustics/165th Meeting of the Acoustical Society of America/52nd Meeting of the Canadian Acoustical Association, Montréal, Quebec, Canada.
- Silbert, N. H.**, Linck, J. A., & VanDam, M. (2013) Multilevel models, covariates, and controlled factors in experimental speech research: Unified analyses of highly structured data. Invited talk presented at the 21st International Congress on Acoustics/165th Meeting of the Acoustical Society of America/52nd Meeting of the Canadian Acoustical Association, Montréal, Quebec, Canada.
- VanDam, M., & **Silbert, N. H.** (2013) Precision and error of automatic speech recognition. Poster presented at the 21st International Congress on Acoustics/165th Meeting of the Acoustical Society of America/52nd Meeting of the Canadian Acoustical Association, Montréal, Quebec, Canada.
- Linck, J. A., Jackson, S. R., **Silbert, N. H.**, Tare, M., Bowles, A., Campbell, S. G., & Bunting, M. F. (2012) Individual Differences in Executive Functions Predict Second Language Learning Success. Poster presented at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Campbell, S., Hughes, M., Linck, J., **Silbert, N. H.**, Tare, M., & Bunting, M. (2012) Foreign Language Training Improves Other Cognitive Abilities. Poster presented at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Landy, D., Davis, Z. J., Guay, B. M., Delaunay, M. L., Charlesworth, A., & **Silbert, N.** (2012) Moving on Down the (Mental Number) Line. Talk presented at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Townsend, J. T., Houpt, J. W., & **Silbert, N.** (2012) A New parallel-channels general recognition theory, which predicts both response times and accuracy. Talk presented at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis, MN.
- Linck, J. A., Hughes, M. M., Campbell, S. G., **Silbert, N. H.**, Tare, M., Jackson, S. R., Smith, B. K., Bunting, M. F., & Doughty, C. J. (2012) The contributions of executive functions for predicting adult second language acquisition to high proficiency levels. Paper presented in a special colloquium at the Second Language Research Forum, Pittsburgh, PA.

- Hughes, M. M., Linck, J. A., Jackson, S. R., & **Silbert, N. H.** (2012) Predicting success in foreign language skills: Skill-specific validity of cognitive and perceptual abilities, biographical, personality, and motivational factors. Poster presented at the 2012 East Coast Organization of Language Testers, Washington, D. C.
- Silbert, N. H.**, de Jong, K. J., Regier, K., & Albin, A. (2012) Prosodic position effects on the statistical relationships between distinctive features and acoustic-phonetic properties of English consonants. *Journal of the Acoustical Society of America*, 132, 2001.
- VanDam, M., **Silbert, N. H.**, & Moeller, M. P. (2012) Effects of age, hearing loss, and phonological neighborhood density on children's perceptual confusions. *Journal of the Acoustical Society of America*, 132, 2076.
- Landy, D., **Silbert, N. H.**, & Goldin, A. (2012) Getting off at the end of the line: The estimation of large numbers. Poster presented at the 34th annual meeting of the Cognitive Science Society, Sapporo, Japan.
- Bowles, A. R., Doughty, C., **Silbert, N. H.**, & Jackson, S. (2011) Individual differences in the ability to discriminate foreign language phonological contrasts. Presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle.
- Linck, J. A., Jackson, S. R., **Silbert, N. H.**, Tare, M., Bowles, A. R., & Bunting, M. F. (2011) Individual differences in working memory predict second language learning success. Presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle.
- Blaaha, L., **Silbert, N. H.**, & Townsend, J. T. (2011) A General Recognition Study of Racial Face Adaptation. Presented at the 27th Meeting of the International Society for Psychophysics, Herzliya, Israel.
- Silbert, N. H.** (2011) Two hierarchical Bayesian General Recognition Theory models. Presented at the 44th annual meeting of the Society for Mathematical Psychology, Medford, Massachusetts.
- Landy, D., Goldin, A., & **Silbert, N. H.** (2011) Estimating magnitude on a very large number line. Presented at the 44th annual meeting of the Society for Mathematical Psychology, Medford, Massachusetts.
- Silbert, N. H.**, Smith, B., Campbell, S. & Doughty, C. (2011) Perceptual similarity, response bias, and novel phonetic categories. *Journal of the Acoustical Society of America*, 129, 2423.
- de Jong, K., **Silbert, N. H.**, Regier, K. T. & Albin, A. (2011) Statistical relationships in distinctive feature models and acoustic-phonetic properties of English consonants. *Journal of the Acoustical Society of America*, 129, 2455.
- VanDam, M., **Silbert, N. H.**, & Moeller, M. P. (2011) Repetition of words from dense and sparse phonological neighborhoods in children with hearing loss and normal hearing. *Journal of the Acoustical Society of America*, 129, 2626.
- Blaaha, L. M., **Silbert, N.H.** & Townsend, J.T. (2011) A General Recognition Theory Study of Race Adaptation. Presented at the 2011 Vision Sciences Society Annual Meeting, Naples, Florida.
- Rytting, A., & **Silbert, N. H.** (2011) Modeling non-native perceptual errors to refine Arabic dictionary search. Talk given at the Georgetown University Linguistics Friday Speaker Series, 25 March 2011.

- VanDam, M. & **Silbert, N.** (2010) A Bayesian model of voice-onset time production. *Journal of the Acoustical Society of America*, 127, 1853.
- Silbert, N. H.**, de Jong, K. J., Lentz, J. J., & Townsend, J. T. (2009) Integration of phonological information in obstruent consonant identification. *Journal of the Acoustical Society of America*, 126, 2302.
- Meneer, T., **Silbert, N.**, Cornes, K., Wenger, M. J., Townsend, J. T., & Donnelly, N. (2009) Contrasting methods of model estimation for configural and holistic perception. Poster presented at the 2009 Vision Sciences Society Meeting, Naples, FL.
- VanDam, M., **Silbert, N. H.**, & Port, R. F. (2009) Fine-grained control of voice onset time production, lexical usage-frequency, and phrasal context. *Journal of the Acoustical Society of America*, 126, 2182.
- Townsend, J. T., Houpt, J. W., **Silbert, N. H.**, & Altieri, N. A. (2009) Toward a new psychophysics based on geometry and stochastic systems theory. Keynote address presented at and appearing in in the proceedings of the 25th Annual Meeting of the International Society for Psychophysics, Galway, Ireland.
- Altieri, N., **Silbert, N.**, & Townsend, J. T. (2009) An analysis of perceptual dependencies in audiovisual speech perception: A new approach. Talk presented at and appearing in the proceedings of the 25th Annual Meeting of the International Society for Psychophysics, Galway, Ireland.
- Altieri, N., **Silbert, N.**, & Pei, L. (2009) An investigation of perceptual dependencies in audiovisual speech perception. Poster presented at 10th International Multisensory Research Forum, New York.
- Silbert, N.**, Townsend, J. T., & Lentz, J. J. (2008) Three types of decision bounds in General Recognition Theory. Talk given at the 41st Annual Society for Mathematical Psychology Conference, Washington, D.C.
- de Jong, K., Hao, Y.-C., Park, H., & **Silbert, N.** (2008) The '[+English]' effect in acquisition of English as a second language: Novelcategory biases in second language perception and production. *Journal of the Acoustical Society of America*, 123, 3332.
- Silbert, N.**, & de Jong, K. (2007) Response bias, type and token frequency, and prosodic context in segment identification. *Journal of the Acoustical Society of America*, 122, 3019.
- Silbert, N.**, Townsend, J. T., & Lentz, J. J. (2007) Independence in the perception of complex non-speech sounds. *Journal of the Acoustical Society of America*, 122, 3062.
- Silbert, N.**, & de Jong, K. (2007) Distinctive features and mathematical models of perception and decision making. Poster presented at Where Do Features Come From? Phonological Primitives in the Brain, the Mouth, and the Ear, University of Paris III, Paris, France.
- Silbert, N.**, & de Jong, K. (2007) Laryngeal Feature Structure in 1st and 2nd Language Speech Perception. Talk given at the 16th International Congress of Phonetic Sciences, Saarland University, Saarbrücken, Germany.
- Silbert, N.**, Townsend, J. T., & Lentz, J. J. (2007) Independence in the perception of complex non-speech sounds. Poster presented at the 40th Annual Meeting of the Society for Mathematical Psychology, University of California, Irvine.

- de Jong, K.J., & **Silbert, N.** (2005) On Segmental Factorability in Second Language Learning. Paper B10 presented at the First ASA Workshop on Second Language Acquisition, 15 May, 2005, Vancouver, B.C., Canada.
- de Jong, K., **Silbert, N.**, & Park, H. (2004) Segments and segmental properties in cross-language perception: Korean perception of English obstruents in various prosodic locations. *Journal of the Acoustical Society of America*, 115, 2504.
- Park, H., de Jong, K., & **Silbert, N.** (2004) Cross-language perceptual category mapping: Korean perception of English obstruents. *Journal of the Acoustical Society of America*, 115, 2504.

Working Papers

- Silbert, N. H.** & de Jong, K. (2011) English obstruent perception: The content of the p-map and its relationship to natural class structure. IULC Working Papers – Online.
- de Jong, K., Hao, Y.-C., Park, H., & **N. Silbert.** (2008) Novel-category biases in second language perception and production. IULC Working Papers – Online.
- de Jong, K., & **Silbert, N.** (2006) On Segmental Factorability in Second Language Learning. IULC Working Papers – Online.
- Silbert, N.**, de Jong, K., & Park, H. (2005) Linguistic Generalization in L2 Consonant Identification Accuracy: a Preliminary Report. IULC Working Papers – Online.

Honors

Outstanding Research Award, Indiana University Cognitive Science Program, 2010
Pre-doctoral Research Fellowship, Cognitive Modeling Training Grant, 2006-2007

Professional

Service

Committees

- Department of CSD Reappointment, Promotion, and Tenure Committee
- Department of CSD Strategic Planning Committee
- CSD Department Head Search Committee

Memberships

Acoustical Society of America

Cognitive Science Society

Society for Mathematical Psychology

Editorial Board of the *Journal of Speech, Language, and Hearing Research*

Grant Proposal Reviewer

- University of Cincinnati Research Council Graduate Fellowship, 2014-2017
- Icelandic Research Fund, 2016
- Louisiana Board of Regents, 2014-2015

Manuscript Reviewer

- Journal of the Acoustical Society of America, 2016, 2017
- Journal of Speech, Language, and Hearing Research, 2014, 2015, 2017
- Laboratory Phonology, 2015, 2016
- Psychonomic Bulletin & Review, 2016
- Journal of Phonetics, 2009, 2010, 2013, 2014, 2015
- Journal of Experimental Psychology: Human Perception & Performance, 2015
- Frontiers in Psychology, 2014
- Cognition, 2014
- Cognitive Science Annual Meeting Proceedings, 2010 - 2014
- Behavior Research Methods, 2010, 2014
- Languages in Contrast, 2013
- Oxford Handbook of Mathematical Psychology, 2013
- Speech Communication, 2010, 2011
- Attention, Perception & Psychophysics, 2010
- Language Learning, 2008

Other

Session Chair, Psychological & Physiological Acoustics, 168th Meeting of the
Acoustical Society of America