

Kasia Hitczenko

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EMPLOYMENT

Visiting Assistant Professor Department of Computer Science, The George Washington University	2024-pres.
Postdoctoral Researcher Laboratoire de Sciences Cognitives et Psycholinguistique, Ecole Normale Supérieure Advisor: Dr. Alejandrina Cristia (on leave Fall 2023)	2022-2023
Postdoctoral Researcher Department of Linguistics, Northwestern University Advisors: Dr. Matthew Goldrick, Dr. Vijay Mittal, and Dr. Joseph Keshet	2019-2021

EDUCATION

University of Maryland, College Park Ph.D. in Linguistics Advisor: Dr. Naomi Feldman	2014-2019
Yale University B.A. in Cognitive Science, <i>summa cum laude</i> Advisor: Dr. Gaja Jarosz	2010-2014

PUBLICATIONS

In Progress

Hitczenko, K., Bergelson, E., Casillas, M., Colleran, H., Cychosz, M., Grosjean, P., Hamrick, L. R., Kelleher, B. L., Scaff, C., Seidl, A., Walker, S., and Cristia, A. (accepted) [A cross-linguistic study of the effect of early experience on vocal development](#). Registered Report Stage 1 Accepted at Developmental Science.

Hitczenko, K., Peurey, L., Havard, W. N., Tey, K. J., Seidl, A., Semenzin, A., Scaff, C., Lavechin, M., Kelleher, B., Hamrick, L., Gautheron, L., Cychosz, M., Casillas, M., & Cristia, A. (under review). [Speech Maturity Dataset: A cross-cultural corpus of naturalistic child and adult vocalizations](#).

Zhang, T., Suresh, M., Warlaumont, A. S., **Hitczenko, K.**, Cristia, A., Cychosz, M. (in revision). [Employing self-supervised learning models for cross-linguistic child speech maturity classification](#).

Muller, H., Gaston, P., Dickerson, B., Liter, A., Durvasula, K., Hirzel, M., **Hitczenko, K.**, Kandel, M., Lyskawa, P., Nelligan, J., Papillon, M., & Perkins, L. (in revision). Gender bias in representation and publishing rates across subfields of Linguistics.

Journal Articles

Segal-Feldman, Y., **Hitczenko, K.**, Goldrick, M., Buchwald, A., Roberts, A., & Keshet, J. (in press). [Enhancing analysis of diadochokinetic speech using deep neural networks](#). *Computer Speech & Language*.

Hitczenko, K., Segal, Y., Keshet, Y., Goldrick, M., & Mittal, V. A. (2023). [Speech characteristics yield important clues about motor function: Speech variability in individuals at clinical high-risk for psychosis](#). *Schizophrenia*, 9(1), 60.

Hitczenko, K. & Feldman, N. H. (2022). [Naturalistic speech supports distributional learning across contexts](#). *Proceedings of the National Academy of Sciences*, 119(38), 32123230119.

Havron, N., Scaff, C., **Hitczenko, K.**, and Cristia, A. (2022). [Community-set goals are needed to increase diversity in language acquisition research: A commentary on Kidd and Garcia \(2022\)](#). *First Language*.

Hitczenko, K., Cowan, H. R., Goldrick, M., and Mittal, V. A. (2021). [Racial and ethnic biases in computational approaches to psychopathology](#). *Schizophrenia Bulletin*, 48(2), 285-288.

Hitczenko, K., Mittal, V. A., & Goldrick, M. (2021). [Understanding language abnormalities and associated clinical markers in psychosis: The promise of computational methods](#). *Schizophrenia Bulletin*, 47(2), 344-362.

Corcoran, C., Mittal, V. A., Bearden, C. E., Gur, R., **Hitczenko, K.**, Bilgrami, Z., Savic, A., Cecchi, G. A., & Wolff, P. (2020). [Language as a biomarker for psychosis: A natural language processing approach](#). *Schizophrenia Research*, 226, 158-166.

Hitczenko, K., Mazuka, R., Elsner, M., & Feldman, N. H. (2020). [When context is and isn't helpful: A corpus study of naturalistic speech](#). *Psychonomic Bulletin & Review*, 27(4), 640-676.

Conference Proceedings with Full Paper Peer Review

Hitczenko, K., Bergelson, E., Casillas, M., Colleran, H., Cychosz, M., Grosjean, P., Hamrick, L. R., Kelleher, B. L., Scaff, C., Seidl, A., Walker, S., & Cristia, A. (2023). [The development of canonical proportion continues past toddlerhood](#). *Proceedings of the 20th International Conference of Phonetic Sciences (ICPhS)*, Prague, Czech Republic.

Segal, Y., **Hitczenko, K.**, Goldrick, M., Buchwald, A., Roberts, A., & Keshet, J. (2022). [DDKtor: Automatic diadochokinetic speech analysis](#). *INTERSPEECH 2022*.

Hitczenko, K., Cowan, H. R., Mittal, V. A., & Goldrick, M. (2021). [Automated coherence measures fail to index thought disorder in individuals at risk for psychosis](#). *Workshop on Computational Linguistics and Clinical Psychology*.

Hitczenko, K., Mazuka, R., Elsner, M., & Feldman, N. H. (2018). [How to use context to disambiguate overlapping categories: The test case of Japanese vowel length](#). *Proceedings of the 40th Annual Conference of the Cognitive Science Society*.

Hitczenko, K. & Feldman, N. H. (2016). [Modeling adaptation to a novel accent](#). *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.

Book Chapters and Other Conference Proceedings

Gupta, T., Damme, K. S. F., Osborne, K. J., Vargas, T. G., Ristanovic, I., Frosch, I. R., Zarubin, V. C., **Hitczenko, K.**, Williams, T. F., Cowan, H. R., & Mittal, V. A. (2021). *Psychotic dis-*

orders and risk-states in adolescence: Etiology, developmental considerations, and treatment. In *Comprehensive Clinical Psychology* 2nd edition, Volume 5: Case conceptualization and treatment: Children and adolescents.

Antetomaso, S., Miyazawa, K., Feldman, N. H., Elsner, M., **Hitczenko, K.**, & Mazuka, R. (2017). [Modeling phonetic category learning from natural acoustic data](#). Proceedings of the 41st Boston University Conference on Language Development.

Hitczenko, K. & Jarosz, G. (2014). [Cognitive limitations impose advantageous constraints in word segmentation](#). Proceedings of the 39th Boston University Conference on Language Development.

PRESENTATIONS

Conferences and Workshops

Cychosz, M. **Hitczenko, K.**, Havard, W. N., Peurey, L., Suresh, M., Zhang, T., & Cristia, A. (2024). Introducing the Speech Maturity Dataset: Research opportunities for speech scientists and linguistic fieldworkers. Paper presented at CorpusPhon, Seoul, South Korea.

Tey, K. J., Walker, S., Seidl, A., Scaff, C., Peurey, L., Kelleher, B. L., **Hitczenko, K.**, Havard, W. N., Hamrick, L. R., Grosjean, P., Cychosz, M., Colleran, H., Casillas, M., Bergelson, E., & Cristia, A. (2024). Exploring the Impact of Syllable Complexity on Canonical Proportion in Children: Insights from a Multilingual and Cross-cultural Study. Poster presented at the Workshop on Infant Language Development (WILD), Lisbon, Portugal.

Havard, W. N., Peurey, L., Cristia, A., & **Hitczenko, K.** (2023). Speech Maturity Dataset. Poster presented at Many Paths to Language (MPaL), Nijmegen, Netherlands.

Hitczenko, K., Bergelson, E., Casillas, M., Colleran, H., Cychosz, M., Grosjean, P., Hamrick, L. R., Kelleher, B. L., Scaff, C., Seidl, A., Walker, S., & Cristia, A. (2023). The development of canonical proportion continues past toddlerhood. Paper presented at the 20th International Conference of Phonetic Sciences (ICPhS), Prague, Czech Republic.

Hitczenko, K., Segal, Y., Keshet, J., Mittal, V., & Goldrick, M. (2023). Using automatic acoustic analysis to reveal disruptions to speech articulation in individuals at risk for psychosis. Poster presented at the 184th Meeting of the Acoustical Society of America, Chicago, IL, USA.

Hitczenko, K., Bergelson, E., Casillas, M., Colleran, H., Cychosz, M., Grosjean, P., Hamrick, L. R., Kelleher, B. L., Scaff, C., Seidl, A., Walker, S., & Cristia, A. (2022). The development of canonical proportion continues through 6 years of age. Paper presented at the 47th Boston University Conference on Language Development (BUCLD), Boston, MA, USA.

Segal, Y., **Hitczenko, K.**, Goldrick, M., Buchwald, A., Roberts, A., and Keshet, J. (2022). DDKtor: Automatic diadochokinetic speech analysis. Poster presented at INTERSPEECH 2022, Incheon, South Korea.

Hitczenko, K., Cowan, H. R., Mittal, V. A., & Goldrick, M. (2021). Automated coherence measures fail to index thought disorder in individuals at risk for psychosis. Poster presented at the Workshop on Computational Linguistics and Clinical Psychology.

Hitczenko, K. & Feldman, N. H. (2019). Naturalistic data support distributional learning across contexts. Poster presented at the 44th Boston University Conference on Language Development, Boston, MA, USA.

Hitczenko, K., Mazuka, R., Elsner, M., & Feldman, N. H. (2019). Normalization may be ineffective for phonetic category learning. Poster presented at the 2nd Annual Meeting of the Society for Computation in Linguistics, New York, NY, USA.

Muller, H., Gaston, P., Dickerson, B., Liter, A., Durvasula, K., Hirzel, M., **Hitczenko, K.**, Kandel, M., Lyskawa, P., Nelligan, J., Papillon, M., & Perkins, L. (2019). Gender bias in representation and publishing rates across subfields. Paper presented at the 92nd Annual Meeting of the Linguistic Society of America, New York, NY, USA.

Hitczenko, K., Mazuka, R., Elsner, M., & Feldman, N. H. (2018). Normalization may be ineffective for phonetic category learning. Poster presented at the 43rd Boston University Conference on Language Development, Boston, MA, USA.

Hitczenko, K., Mazuka, R., Elsner, M., & Feldman, N. H. (2018). How to use context to disambiguate overlapping categories: The test case of Japanese vowel length. Paper presented at the 40th Annual Conference of the Cognitive Science Society, Madison, WI, USA.

Hitczenko, K., Mazuka, R., Elsner, M., & Feldman, N. H. (2017). Exploring the efficacy of normalization in the acquisition and processing of Japanese vowels. Paper presented at the 11th Northeast Computational Phonology workshop, Stony Brook, NY, USA.

Antetomaso, S., Miyazawa, K., Feldman, N. H., Elsner, M., **Hitczenko, K.**, & Mazuka, R. (2016). Modeling phonetic category learning from natural acoustic data. Paper presented at the 41st Boston University Conference on Language Development, Boston, MA, USA.

Hitczenko, K. & Feldman, N. H. (2016). Modeling adaptation to a novel accent. Poster presented at the 38th Annual Conference of the Cognitive Science Society. Philadelphia, PA, USA.

Hitczenko, K. & Feldman, N. H. (2015). Modeling adaptation to a novel accent. Paper presented at the 9th Northeast Computational Phonology workshop, Newark, DE, USA.

Hitczenko, K. & Jarosz, G. (2014). Cognitive limitations impose advantageous constraints in word segmentation. Paper presented at the 39th Boston University Conference on Language Development, Boston, MA, USA.

Hitczenko, K. & Jarosz, G. (2014). Cognitive limitations impose advantageous constraints in word segmentation. Poster presented at the 36th Annual Conference of the Cognitive Science Society. Quebec City, Canada.

TEACHING

Courses

Co-Instructor, Discrete Structures II (GWU) Fall 2024
Shared responsibility for the undergrad course, including managing 6 undergraduate/graduate TAs

Instructor, Natural Language Understanding (GWU) Spring, Fall 2024
Full responsibility for the mixed grad/undergrad course, including course design

Instructor, Bayesian Models of Language (Northwestern) Winter 2020
Full responsibility for the mixed grad/undergrad course, including course design

Instructor, Psycholinguistics Seminar: Learning from Variable Speech (UMD) Fall 2018
Full responsibility for the undergrad course, including course design

Teaching Assistant , Phonology I (UMD) Responsible for two lectures, leading in-class problems, office hours, and grading	Fall 2016
Graduate Mentor , PULSAR Program (UMD) Co-led a weekly undergraduate seminar involving language science guest speakers	Spring 2016
Teaching Assistant , Introduction to Linguistics (non-majors) (UMD) Responsible for a weekly discussion section (30 students), office hours, and grading	Fall 2015

Invited Tutorials

Bayesian Methods , co-led with Dr. Laurel Perkins 2nd Annual Meeting of the Society for Computation in Linguistics	January 2019
Introduction to MATLAB UMD Hearing and Speech Sciences Toolkit Workshop	April 2017

AWARDS AND FELLOWSHIPS

NIH T32 Neuroscience of Human Cognition Trainee Northwestern University, PI: Ken Paller	2021
NSF Research Traineeship Fellowship UMD Language Science Center (#1449815)	2015-2019
BUCLD Paula Menyuk Travel Award	2014, 2018
NSF East Asia and Pacific Summer Institutes (EAPSI) Fellowship (#1713974)	2017
NSF Graduate Research Fellowship Honorable Mention	2016
Phi Beta Kappa Society Inductee	2013

SERVICE

Bias in Linguistics group member	2018-pres.
Northwestern Phonatics discussion group organizer	2020-2021
Outreach Organization Committee , UMD Language Science Center Co-chair: 2016-2017	2015-2017
Colloquium Organization Committee , University of Maryland Linguistics	2015-2017
UMD North American Computational Linguistics Olympiad (NACLO) co-organizer	2015-2017
Maryland Day Language Science Tent Organizer	2016
Mayfest Workshop Co-organizer, UMD Linguistics	2014-2015

Adhoc Reviewing: Cognition; Language Learning and Development; Developmental Psychology; Psychonomic Bulletin & Review; Applied Linguistics; Journal of Abnormal Psychology; Attention, Perception and Psychophysics; Schizophrenia Bulletin; Psychiatry Research; Annual Meeting of the Cognitive Science Society (CogSci); Annual Meeting of the Association for Computational Linguistics (ACL); Annual Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL); Society for Computation in Linguistics (SCiL); International Conference on Computational Linguistics (COLING)

Last updated: October 15, 2024