

- Abdallah, B. (2020). *Computer based technique to detect depression in Alzheimer patients*. Doctoral dissertation, École de Technologie Supérieure.
- Abdalla, M., Rudzicz, F. & Hirst, G. (2018) Rhetorical structure and Alzheimer's disease, *Aphasiology*, 32(1), 41-60, doi:10.1080/02687038.2017.1355439
- Abdelhalim, N., Abdelhalim, I., & Batista-Navarro, R. T. (2023, July). Training models on oversampled data and a novel multi-class annotation scheme for dementia detection. In *Proceedings of the 5th Clinical Natural Language Processing Workshop* (pp. 118-124).
- Abdullah, R. M., Ameen, S. Y., Ahmed, D. M., Kak, S. F., Yasin, H. M., Ibrahim, I. M., Ahmed, A. M., Rashid, Z.N., Omar, N., & Salih, A. A. (2021). Paralinguistic speech processing: An overview. *Asian Journal of Research in Computer Science*, 10(1), 34-46.
- Abiven, F., & Ratté, S. (2021). Multilingual automation of transcript preprocessing in Alzheimer's disease detection. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, 7(1), e12147.
- Ablimit, A., Botelho, C., Abad, A., Schultz, T., & Trancoso, I. (2022, May). Exploring dementia detection from speech: Cross corpus analysis. In *ICASSP 2022-2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 6472-6476.
- Adams, J., Dalton, S. G., Hubbard, H. I., Adair, J., Knoefel, J., Ott, E., Rosenberg, G., & Richardson, J. D. (2022, November). *Main concept, sequencing, & story grammar (MSSG) analyses of the Cinderella story in primary progressive aphasia*. Poster presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA.
- Adhikari, S., Thapa, S., Naseem, U., Singh, P., Huo, H., Bharathy, G., & Prasad, M. (2021). Exploiting linguistic information from Nepali transcripts for early detection of Alzheimer's disease using natural language processing and machine learning techniques. *International Journal of Human-Computer Studies*, 102761.
- Aditya Shastry, K., & Sanjay, H.A. (2023). Artificial intelligence techniques for the effective diagnosis of Alzheimer's disease: A review. *Multimedia Tools and Applications*. <https://doi.org/10.1007/s11042-023-16928-z>
- Agbavor, F., & Liang, H. (2023). Artificial intelligence-enabled end-to-end detection and assessment of Alzheimer's disease using

voice. *Brain Sciences*, 13(1), 28.

- Agbavor, F., Liang, H. (2022) Predicting dementia from spontaneous speech using large language models. *PLOS Digit Health* 1(12): e0000168. <https://doi.org/10.1371/journal.pdig.0000168>
- Alex, J. S. R., Bhyri, R., Usha, G. P., & Arvind, S. V. (2023). Noninvasive detection of Alzheimer's disease from conversational speech using 1D-CNN. In *Futuristic Communication and Network Technologies: Select Proceedings of VICFCNT 2021, Volume 1* (pp. 583-592). Singapore: Springer Nature Singapore.
- Al-Hadithy, T. M., Frikha, M., & Maseer, Z. K. (2022, October). Speaker diarization based on deep learning techniques: A review. In *2022 International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, 856-871.
- Alkenani, A. H. A. (2023). *Deep discourse analysis for early prediction of multi-type dementia*. Doctoral dissertation, Queensland University of Technology, Computer Science.
- Alkenani, A. H., Li, Y., Xu, Y., & Zhang, Q. (2021). Predicting Alzheimer's disease from spoken and written language using fusion-based stacked generalization. *Journal of Biomedical Informatics*, 118, 103803.
- Alkenani, A. H., Li, Y., Xu, Y., & Zhang, Q. (2020). Predicting prodromal dementia using linguistic patterns and deficits." *IEEE Access*, 8:193856-193873.
- Alm, C. O., Meyers, B., & Prud'hommeaux, E. (2017). An analysis and visualization tool for case study learning of linguistic concepts. In *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing: System Demonstrations* (pp. 13-18).
- Ambadi, P. S., Basche, K., Kosciuk, R. L., Berisha, V., Liss, J. M., & Mueller, K. D. (2021). Spatio-semantic graphs from picture description: Applications to detection of cognitive impairment. *Frontiers in Neurology*, 2277.
- Ammar, R. B., & Ayed, Y. B. (2021). A language-based approach for predicting Alzheimer disease severity. In S. Cherfi, A. Perini, S. Nurcan (Eds.), *Research Challenges in Information Science. RCIS 2021. Lecture Notes in Business Information Processing*, vol 415. Springer, Cham.
- Ammar, R. B., & Ayed, Y. B. (2020). Language-related features for early detection of Alzheimer disease. *Procedia Computer Science*, 176, 763-770.

- Ammar, R. B., & Ayed, Y. B. (2019, December). Evaluation of acoustic features for early diagnosis of Alzheimer disease. In *International Conference on Intelligent Systems Design and Applications* (pp. 172-181). Springer, Cham.
- Aryal, S. K., Prioleau, H., & Burge, L. (2022). Acoustic-Linguistic Features for Modeling Neurological Task Score in Alzheimer's. In *PACIFIC SYMPOSIUM ON BIOCOMPUTING 2023: Kohala Coast, Hawaii, USA, 3-7 January 2023* (pp. 335-346).
- Ayoub, B. (2023). A predictive analysis approach for the detection of risk factors in complex diseases. Doctoral dissertation, Badji Mokhtar-Annaba University, Department of Computer Science.
- Balagopalan, A., Eyre, B., Robin, J., Rudzicz, F., & Novikova, J. (2021). Comparing pre-trained and feature-based models for prediction of Alzheimer's disease based on speech. *Frontiers in Aging Neuroscience*, 13:635945.
- Balagopalan, A., Eyre, B., Rudzicz, F., & Novikova, J. (2020, October). *To BERT or not to BERT: comparing speech and language-based approaches for Alzheimer's disease detection*. Presentation at INTERSPEECH 2020, *arXiv preprint arXiv:2008.01551*
- Balagopalan, A., & Novikova, J. (2021, September). *Comparing acoustic-based approaches for Alzheimer's disease detection*. Presentation at INTERSPEECH 2021.
- Balagopalan, A., & Novikova, J. (2020). Augmenting BERT carefully with underrepresented linguistic features. *arXiv preprint arXiv:2011.06153*.
- Balagopalan, A., Novikova, J., Rudzicz, F., & Ghassemi, M. (2018). The effect of heterogeneous data for Alzheimer's disease detection from speech. *arXiv preprint arXiv:1811.12254*.
- Balagopalan, A., Shkaruta, K., & Novikova, J. (2019). Impact of ASR on Alzheimer's disease detection: all errors are equal, but deletions are more equal than others. *arXiv preprint arXiv:1904.01684*.
- Barral, O., Jang, H., Newton-Mason, S., Shajan, S., Soroski, T., Carenini, G., ... & Field, T. (2020, September). Non-invasive classification of Alzheimer's disease using eye tracking and language. In *Machine Learning for Healthcare Conference* (pp. 813-841). PMLR.
- Begam, B., & Palanivelan, M. (2023). A speech based diagnostic method for Alzheimer disease using machine learning. *International Journal of Speech Technology*.

<https://doi.org/10.1007/s10772-023-10056-7>

- Begam, B., Palanivelan, M., & Preethi, S. (2023, April). *An ensemble machine learning algorithm to diagnose Alzheimer's disease*. In 2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI), 1-6.
- Bello, G. A., Hurtado, C. R. R., López, J. S. R., Montesinos, L., & López-Caudana, E. (2021, November). A wearable, cloud-based system to enable Alzheimer's disease analysis, diagnosis, and progression monitoring. In *2021 IEEE URUCON*, 566-570.
- Berstis, K., Grasso, S., Schaffer, K., Keegan-Rodewald, W., Hubbard, H. I., & Henry, M. L. (2021, May). *Investigating changes in connected speech in nonfluent/agrammatic PPA following script training*. Paper presented at the Clinical Aphasiology Conference.
- Bertini, F., Allevi, D., Lutero, G., Calzà, L., & Montesi, D. (2022). An automatic Alzheimer's disease classifier based on spontaneous spoken English. *Computer Speech & Language*, *72*, 101298.
- Bertini, F., Allevi, D., Lutero, G., Calzà, L., & Montesi, D. (2022, October). A cross-language dementia classifier: A preliminary Study. In *2022 IEEE International Conference on Metrology for Extended Reality, Artificial Intelligence and Neural Engineering (MetroXRINE)*, 438-443.
- Bhanusree, Y., Bulusu, D., Chinni, D., Narahari, A., Simhadri, S. S., & Bommareddy, V. (2023). Survey of identification of Alzheimer's disease using MRI, speech and MMSE. In *Communication, Software and Networks* (pp. 247-258). Springer, Singapore.
- Bhat, C., & Kopparapu, S. K. (2019, September). Identification of Alzheimer's disease using non-linguistic audio descriptors. In *2019 27th European Signal Processing Conference (EUSIPCO)*, 1-5.
- Boroujeni, P. D. (2023). *Topic-based co-training and query-based semantic feature for text classification*. Doctoral dissertation, Queensland University of Technology, Department of Computer Science.
- Botelho, C., Schultz, T., Abad, A., & Trancoso, I. (2022). Challenges of using longitudinal and cross-domain corpora on studies of pathological speech. In *Proc. Interspeech* (pp. 1921-1925).
- Bourque, K. (2021). *Evaluating the role of gender in dementia-related language deficiencies*. Master's thesis, The City University of New York, Department of Linguistics.

- Bouazizi, M., Zheng, C., & Ohtsuki, T. (2022, January). Dementia detection using language models and transfer learning. In *2022 The 5th International Conference on Software Engineering and Information Management (ICSIM)* (pp. 152-157).
- Botezatu, M. R., Miller, E., & Kiselica, A. M. (2023). Limited connectedness of spontaneous speech may be a marker of dementia due to Alzheimer's disease. *Frontiers in Aging Neuroscience*. doi:10.3389/fnagi.2023.1252614
- Broderick, B. M., Tou, S. L., & Provost, E. M. (2018). CogID: A speech recognition tool for early detection of Alzheimer's disease. Poster presented at Technology and Dementia Preconference, Alzheimer's Association International Conference.
- Budhkar, A., & Rudzicz, F. (2018). Augmenting word2vec with latent Dirichlet allocation within a clinical application. *arXiv preprint arXiv:1808.03967*.
- Burke, E., Gunstad, J., & Hamrick, P. (2023). Comparing global and local semantic coherence of spontaneous speech in persons with Alzheimer's disease and healthy controls. *Applied Corpus Linguistics*, 100064.
- Burke, E., Gunstad, J., Pavlenko, O., & Hamrick, P. (2023). Distinguishable features of spontaneous speech in Alzheimer's clinical syndrome and healthy controls. *Aging, Neuropsychology, and Cognition*, 1-12.
- Bynum, J. P., Dorr, D. A., Lima, J., McCarthy, E. P., McCreedy, E., Platt, R., & Vydiswaran, V. V. (2020). Using healthcare data in embedded pragmatic clinical trials among people living with dementia and their caregivers: state of the art. *Journal of the American Geriatrics Society*, 68, S49-S54.
- Cai, H., Huang, X., Liu, Z., Liao, W., Dai, H., Wu, Z., ... & Li, X. (2023, August). Multimodal approaches for Alzheimer's detection using patients' speech and transcript. In *International Conference on Brain Informatics* (pp. 395-406). Cham: Springer Nature Switzerland.
- Cai, H., Huang, X., Liu, Z., Liao, W., Dai, H., Wu, Z., ... & Li, X. (2023). Exploring multimodal approaches for Alzheimer's disease detection using patient speech transcript and audio data. *arXiv preprint arXiv:2307.02514*.
- Campbell, E. L., Fernández, L. D., Raboso, J. J., & García-Mateo, C. (2021). Alzheimer's dementia detection from audio and language modalities in spontaneous speech. *Proc. IberSPEECH 2021*, 270-

274.

- Campbell, E. L., Fernández, L. D., Raboso, J. J., & García-Mateo, C. (2020). Alzheimer's dementia detection from audio and text modalities. *arXiv preprint arXiv:2008.04617*.
- Campbell, E. L., Mesía, R. Y., Docío-Fernández, L., & García-Mateo, C. (2021). Paralinguistic and linguistic fluency features for Alzheimer's disease detection. *Computer Speech & Language*, 68. doi:10.1016/j.csl.2021.101198
- Carenini, G. (2017, July). Domain adaptation for detecting Mild Cognitive Impairment. In *Advances in Artificial Intelligence: 30th Canadian Conference on Artificial Intelligence, Canadian AI 2017, Edmonton, AB, Canada, May 16-19, 2017, Proceedings* (Vol. 10233, p. 248). Springer.
- Cedeño-García, J. R., Favela, J., & Sánchez-Torres, C. E. (2023, October). Smart contracts for ethical mobile data collection and usage. In *Adjunct Proceedings of the 2023 ACM International Joint Conference on Pervasive and Ubiquitous Computing & the 2023 ACM International Symposium on Wearable Computing* (pp. 346-351).
- Chakraborty, R., Pandharipande, M., Bhat, C., & and Kopparapu, S. K. (2020). Identification of dementia using audio biomarkers. *arXiv preprint arXiv:2002.12788*.
- Chapin, K., Clarke, N., Garrard, P., & Hinzen, W. (2022). A finer-grained linguistic profile of Alzheimer's disease and Mild Cognitive Impairment. *Journal of Neurolinguistics*, 63, 101069.
- Chafouleas, G. (2021). *Alzheimer prediction from connected speech extracts: Assessment of generalisation to new data*. Master's thesis, University of Montreal, Department of Mathematics and Statistics.
- Chatzianastasis, M., Ilias, L., Askounis, D., & Vazirgiannis, M. (2023). Neural architecture search with multimodal fusion methods for diagnosing dementia. *arXiv preprint arXiv:2302.05894v1*.
- Chen, H. (2019). *Can semantic-phonemic discrepancy in verbal fluency help to detect Alzheimer's dementia?* Honor's thesis, University of Iowa, Speech Pathology and Audiology.
- Chen, H., & Gordon, J. K. (2019, October). *Using verbal fluency to identify Alzheimer's dementia*. Poster presented at the Academy of Aphasia, Macau.
- Chen, J., Ye, J., Tang, F., & Zhou, J. (2021, September). *Automatic*

detection of Alzheimer's disease using spontaneous speech only. In Proc. Interspeech (pp. 3830-3834).

- Chen, J., Zhu, J., & Ye, J. (2019). An attention-based hybrid network for automatic detection of Alzheimer's disease from narrative speech. In *INTERSPEECH* (pp. 4085-4089).
- Chen, M., Miao, C., Ma, J., Wang, S., & Xiao, J. (2023). Exploring multi-task learning and data augmentation in dementia detection with self-supervised pretrained models. Paper presented at *INTERSPEECH 2023*, Dublin, Ireland.
- Chen, W., Xing, X., Xu, X., Pang, J., & Du, L. (2022). SpeechFormer: A hierarchical efficient framework incorporating the characteristics of speech. *arXiv preprint arXiv:2203.03812*.
- Chen, X., Pu, Y., Li, J., & Zhang, W. Q. (2023). Cross-lingual Alzheimer's disease detection based on paralinguistic and pre-trained features. *arXiv preprint arXiv:2303.07650*.
- Chen, Y., Harsuiker, R. J., & Pistono, A. (2023, October). *A comparison of different connected-speech tasks for detecting mild cognitive impairment using multivariate pattern analysis*. Poster presented at the Academy of Aphasia, Reading, England.
- Chien, Y. W., Hong, S. Y., Cheah, W. T., Fu, L. C., & Chang, Y. L. (2018, October). An assessment system for Alzheimer's disease based on speech using a novel feature sequence design and recurrent neural network. In *2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, 3289-3294.
- Chien, Y. W., Hong, S. Y., Cheah, W. T., Yao, L. H., Chang, Y. L., & Fu, L. C. (2019). An automatic assessment system for Alzheimer's disease based on speech using feature sequence generator and recurrent neural network. *Scientific Reports*, 9(1), 1-10.
- Chinaei, H., Currie, L. C., Danks, A., Lin, H., Mehta, T., & Rudzicz, F. (2017). Identifying and avoiding confusion in dialogue with people with Alzheimer's disease. *Computational Linguistics*, 43(2), 377-406.
- Chlasta, K., & Wołk, K. (2021). Towards computer-based automated screening of dementia through spontaneous speech. *Frontiers in Psychology*, 11, 623237.
- Cho, J., Villalba, J., Moro-Velazquez, L., & Dehak, N. (2022). Non-contrastive self-supervised learning for utterance-level information extraction from speech. *IEEE Journal of Selected Topics in Signal Processing*, 16(6), 1284-1295.

- Choubey, H., Arya, V., Singh, J., Choudhary, N., Sharma, A., & Singh, N. (2023). Efficient model based on deep learning for the classification of dementia. *International Journal on Recent and Innovation Trends in Computing and Communication*, 11(10), 1056-1061.
- Clarke, C. J., Melechovsky, J., Lin, C. M. Y., Priyadarshinee, P., Balamurali, T. B. S., & Chen, J. (2022, July). *Addressing multi-modal multi-model multi-feature cues in Alzheimer's disease*. Paper presented at the 28th International Congress on Sound and Vibration, Singapore.
- Clarke, N., Foltz, P., & Garrard, P. (2020). How to do things with (thousands of) words: Computational approaches to discourse analysis in Alzheimer's disease. *Cortex*, 129, 446-463.
- Codina-Filbà, J., Cámbara, G., Luque, J., & Farrús, M. (2021). Influence of ASR and language model on Alzheimer's disease detection. *arXiv preprint arXiv:2110.15704*.
- Cohen, T., & Pakhomov, S. (2020). A tale of two perplexities: sensitivity of neural language models to lexical retrieval deficits in dementia of the Alzheimer's type. *arXiv preprint arXiv:2005.03593*.
- Colantuoni, D. (2018). *The effects of transcranial direct current stimulation on narrative abilities in primary progressive aphasia*. Master's thesis, University of Maryland, Department of Hearing and Speech Sciences.
- Colla, D., Delsanto, M., Agosto, M., Vitiello, B., & Radicioni, D. P. (2022). Semantic coherence markers: The contribution of perplexity metrics. *Artificial Intelligence in Medicine*. <https://doi.org/10.1016/j.artmed.2022.102393>.
- Comuni, F. (2019). *A natural language processing solution to probable Alzheimer's disease detection in conversation transcripts*. Bachelor's thesis, Kristianstad University, Department of Computer Science.
- Crenshaw, K. C. (2022). *Language and cognition in mild Alzheimer's disease*. Master's thesis, University of Memphis, Department of Speech Language Pathology.
- Crenshaw, K. C., & Feenaughty, L. (2022). *Language and cognition in mild Alzheimer's disease*. Poster presented at the Mid-South Conference on Communicative Disorders, Memphis, TN, and the American Speech-Language-Hearing Association Convention, New Orleans, LA.

- Cui, X., Gamage, A., Hanley, T., & Mu, T. (2021, September). Identifying indicators of vulnerability from short speech segments using acoustic and textual features. *Proc. Interspeech 2021*, 1569-1573.
- Cummings, L. (2019). Describing the cookie theft picture: sources of breakdown in Alzheimer's dementia. *Pragmatics and Society*, 10(2), 153-176.
- Cummings, L. (2020) *Language in Dementia*. Cambridge: Cambridge University Press.
- Cummins, N., Pan, Y., Ren, Z., Fritsch, J., Nallanthighal, V. S., Christensen, H., Blackburn, D., Schuller, B., Doss, M. M., Strik, H., & Harma, A. (2020, October). *A comparison of acoustic and linguistics methodologies for Alzheimer's dementia recognition*. In *Interspeech 2020*, 2182-2186. ISCA-International Speech Communication Association.
- Da Cunha, A. L. V., De Sousa, L. B., Mansur, L. L., & Aluísio, S. M. (2015, June). Automatic proposition extraction from dependency trees: Helping early prediction of Alzheimer's disease from narratives. In *Computer-Based Medical Systems (CBMS), 2015 IEEE 28th International Symposium on Computer-Based Medical Systems* 127-130.
- Dashwood, M., Churchhouse, G., Young, M., & Kuruvilla, T. (2021). Artificial intelligence as an aid to diagnosing dementia: an overview. *Progress in Neurology and Psychiatry*, 25(3), 42-47.
- de Boer, J. N., Voppel, A. E., Begemann, M. J. H., Schnack, H. G., Wijnen, F., & Sommer, I. E. C. (2018). Clinical use of semantic space models in psychiatry and neurology: A systematic review and meta-analysis. *Neuroscience & Biobehavioral Reviews*.
- de la Fuente Garcia, S., Haider, F., & Luz, S. (2020). Cross-corpus feature learning between spontaneous monologue and dialogue for automatic classification of Alzheimer's dementia speech. Presentation at SAAM Consortium.
- de la Fuente Garcia, S., Ritchie, C., & Luz, S. (2020). Artificial Intelligence, speech and language processing approaches to monitoring Alzheimer's disease: A systematic review. *Journal of Alzheimer's Disease*, 78(4), 1547-1574.
- Deng, J., Gutierrez, F. R., Hu, S., Geng, M., Xie, X., Ye, Z., ... & Meng, H. (2021, September). Bayesian parametric and architectural domain adaptation of LF-MMI trained TDNNs for elderly and dysarthric speech recognition. *Proc. Interspeech 2021*, 4818-

4822.

- DePaul, R., Busch, C., & Alfredson, H. (2017, November). *Semantic Feature Analysis treatment using Spaced Retrieval in a case of semantic PPA*. Poster presented at the American Speech-Language-Hearing Association Convention, Los Angeles, CA.
- Dieffenderfer, J., Brewer, A., Noonan, M. A., Smith, M., Eichenlaub, E., Haley, K. L., Jacks, A., Lobaton, E., Neupert, S. D., Hess, T. M., Franz, J. R., Ghosh, S. K., Misra, V., & Bozkurt, A. A wearable system for continuous monitoring and assessment of speech, gait, and cognitive decline for early diagnosis of ADRD. *arinex.com.au*
- Di Palo, F., & Parde, N. (2019). Enriching neural models with targeted features for dementia detection. *arXiv preprint arXiv:1906.05483*.
- Ding, H., & Zhang, Y. (2023). Speech prosody in mental disorders. *Annual Review of Linguistics*, 9, 335-355. <https://www.annualreviews.org/doi/pdf/10.1146/annurev-linguistics-030421-065139>
- dos Santos, L. B., Júnior, E. A. C., Oliveira Jr, O. N., Amancio, D. R., Mansur, L. L., & Aluísio, S. M. (2017, April). Enriching complex networks with word embeddings for detecting Mild Cognitive Impairment from speech transcripts. In *ACL (1)* (pp. 1284-1296).
- Duan, J., Wei, F., Liu, J., Li, H., Liu, T., & Wang, J. (2023, July). CDA: A contrastive data augmentation method for Alzheimer's disease detection. In *Findings of the Association for Computational Linguistics: ACL 2023* (pp. 1819-1826).
- Edwards, E., Dognin, C., Bollepalli, B., & Singh, M. (2020, October). *Multiscale system for Alzheimer's dementia recognition through spontaneous speech*. *INTERSPEECH*, 2197-2201.
- Ehghaghi, M., Rudzicz, F., & Novikova, J. (2022). Data-driven approach to differentiating between depression and dementia from noisy speech and language data. *arXiv preprint arXiv:2210.03303*.
- Eyigöz, E., Cecchi, G. A., & Tejwani, R. (2018). Predicting cognitive impairments with a mobile application. In *ICAART (2)* (pp. 683-692).
- Eyigöz, E., Pietrowicz, M., Agurto, C., Orozco, J. R., Garcia, A. M., Skodda, S., Ruzs, J., Nöth, E., & Cecchi, G. (2020, May). Dependency analysis of spoken language for assessment of

neurological disorders. *LREC: Resources and Processing of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments (RaPID)*. European Language Resources Association (ELRA), 1-7.

- Eyre, B., Balagopalan, A., & Novikova, J. (2020). Fantastic features and where to find them: detecting cognitive impairment with a subsequence classification guided approach. *arXiv preprint arXiv:2010.06579*.
- Fabrizio, C., Termine, A., Caltagirone, C., & Sancesario, G. (2021). Artificial intelligence for Alzheimer's Disease: Promise or challenge?. *Diagnostics*, 11(8), 1473.
- Faroqi-Shah, Y., Treanor, A., Ratner, N. B., Ficek, B., Webster, K., & Tsapkini, K. (2020). Using narratives in differential diagnosis of neurodegenerative syndromes. *Journal of Communication Disorders*, 105994.
- Farrús, M., & Codina-Filbà, J. (2020). Combining prosodic, voice quality and lexical features to automatically detect Alzheimer's disease. *arXiv preprint arXiv:2011.09272*.
- Farzana, S., Deshpande, A., & Parde, N. (2022, May). How you say it matters: Measuring the impact of cerebral disfluency tags on automated dementia detection. In *Proceedings of the 21st Workshop on Biomedical Language Processing* (pp. 37-48).
- Farzana, S., & Parde, N. (2019). Virtual-interviewer: A conversational agent designed to facilitate cognitive health screening in older adults. In *Proceedings of the IEEE-EMBS International Conference on Biomedical and Health Informatics: Extended Abstracts (BHI 2019)*, Chicago, Illinois, May.
- Farzana, S., & Parde, N. (2020, October). Exploring MMSE score prediction using verbal and non-verbal cues. *Interspeech*, 2207-2211.
- Farzana, S., & Parde, N. (2022, September). Are interaction patterns helpful for task-agnostic dementia detection? An empirical exploration. In *Proceedings of the 23rd Annual Meeting of the Special Interest Group on Discourse and Dialogue* (pp. 172-182).
- Farzana, S., & Parde, N. (2023, July). Towards domain-agnostic and domain-adaptive dementia detection from spoken language. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)* (pp. 11965-11978).

- Farzana, S., Valizadeh, M., & Parde, N. (2020, May). Modeling dialogue in conversational cognitive health screening interviews. In *Proceedings of the 12th Language Resources and Evaluation Conference* (pp. 1167-1177).
- Farzana, S., & Parde, N. (2023, July). *Towards domain-agnostic and domain-adaptive dementia detection from spoken language*. Paper presented at the 61st Annual Meeting of the Association for Computational Linguistics, Toronto, Canada.
- Favaro, A., Motley, C., Cao, T., Iglesias, M., Butala, A., Oh, E. S., ... & Moro-Velázquez, L. (2023, January). A multi-modal array of interpretable features to evaluate language and speech patterns in different neurological disorders. In *2022 IEEE Spoken Language Technology Workshop (SLT)*, 532-539.
- Field, T. S., Masrani, V., Murray, G., & Carenini, G. (2017). Improving diagnostic accuracy of Alzheimer's disease from speech analysis using markers of hemispatial neglect. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 13(7), P157-P158.
- Field, T. S., Masrani, V., Murray, G., & Carenini, G. (2017). *Automatic detection of Alzheimer's from speech using spatial neglect markers*. Poster presented at Alzheimer's Association International Conference.
- Fisher, Theresa (2012). *The qualitative differences in analyzing language data of people with dementia Using the SALT versus CLAN programs*. Undergraduate honors thesis, The Ohio State University.
- Fisher, T. & Bourgeois, M. (2012, May). *The qualitative differences in analyzing language data of people with dementia using the SALT versus CLAN programs*. Poster presented at the Denman Undergraduate Research Forum, OSU, Columbus, OH.
- Flick, G., & Ostrand, R. (2023, October). *Detecting level of impairment in dementia using automatically calculated discourse and contextual features of connected speech*. Poster presented at the Academy of Aphasia, Reading, England.
- Franklin, P. L. (2023). *Acoustical analysis of differential diagnosis of cognitive state of older adults*. Honors thesis, Florida State University, Communication Science and Disorders.
- Fraser, K. C., Fors, K. L., & Kokkinakis, D. (2019). Multilingual word embeddings for the assessment of narrative speech in mild cognitive impairment. *Computer Speech & Language*, 53, 121-139.

- Fraser, K. C., Linz, N., Li, B., Fors, K. L., Rudzicz, F., König, A., ... & Kokkinakis, D. (2019, June). Multilingual prediction of Alzheimer's disease through domain adaptation and concept-based language modelling. In *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long and Short Papers)* (pp. 3659-3670).
- Fraser, K. C., Meltzer, J. A., & Rudzicz, F. (2016). Linguistic features identify Alzheimer's disease in narrative speech. *Journal of Alzheimer's Disease*, 49(2), 407-422.
<http://doi.org/10.3233/JAD-150520>
- Fritsch, J., Wankerl, S., & Nöth, E. (2019, May). Automatic diagnosis of Alzheimer's disease using neural network language models. In *ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 5841-5845.
- Fu, Z., Haider, F., & Luz, S. (2020). Predicting Mini-Mental Status Examination scores through paralinguistic acoustic features of spontaneous speech. Presentation at SAAM Consortium.
- Garcia-Rodriguez, J. (2022, October). Deep learning-based dementia prediction using multimodal data. In *17th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022): Salamanca, Spain, September 5-7, 2022, Proceedings* (Vol. 531, p. 260). Springer Nature.
- Gauder, L., Pepino, L., Ferrer, L., & Riera, P. (2021, September). *Alzheimer disease recognition using speech-based embeddings from pre-trained models*. In *Proc. Interspeech 2021*, 3795-3799.
- Geng, M., Xie, X., Su, R., Yu, J., Ye, Z., Liu, X., & Meng, H. (2023, August). *On-the-fly feature based speaker adaptation for dysarthric and elderly speech recognition*. Paper presented at INTERSPEECH 2023, Dublin, Ireland.
- Geng, M., Xie, X., Ye, Z., Wang, T., Li, G., Hu, S., ... & Meng, H. (2022). Speaker adaptation using spectro-temporal deep features for dysarthric and elderly speech recognition. *arXiv preprint arXiv:2202.10290*.
- Gkoumas, D., Purver, M., & Liakata, M. (2023). Reformulating NLP tasks to capture longitudinal manifestation of language disorders in people with dementia. *arXiv preprint arXiv:2310.09897*.
- Gkoumas, D., Tsakalidis, A., & Liakata, M. (2023). A digital language coherence marker for monitoring dementia. *arXiv preprint*

arXiv:2310.09623v1 [cs.CL]

- Gkoumas, D., Wang, B., Tsakalidis, A., Wolters, M., Zubiaga, A., Purver, M., & Liakata, M. (2021). A longitudinal multi-modal dataset for dementia monitoring and diagnosis. *arXiv preprint arXiv:2109.01537v1* [cs.CL]
- Gomez-Zaragoza, L., Wills, S., Tejedor-Garcia, C., Marin-Morales, J., Alcaniz, M., & Strik, H. (2023, August). *Alzheimer disease classification through ASR-based transcriptions: Exploring the impact of punctuation and pauses*. Paper presented at Interspeech 2023, Dublin, Ireland.
- Gong, Y., Yang, L., Zhang, J., Chen, Z., He, S., Zhang, X., & Zhang, W. (2023). Using speech emotion recognition as a longitudinal biomarker for Alzheimer's disease. *International Journal of Biomedical and Biological Engineering*, 17(11), 267-272.
- Gonzalez-Atienza, M., Gonzalez-Lopez, J. A., & Peinado, A. M. (2021). An automatic system for dementia detection using acoustic and linguistic features. In *International Symposium on Computer Architecture (ISCA)*.
- Govindjee, A., Xu, C., Liu, S., & Fang, B. (2020). *U.S. Patent No. 10,602,974*. Washington, DC: U.S. Patent and Trademark Office.
- Guerrero-Cristancho, J. S., Vásquez-Correa, J. C., & Orozco-Arroyave, J. R. (2020). Word-embeddings and grammar features to detect language disorders in Alzheimer's disease patients. *TecnoLógicas*, 23(47), 63-75.
- Guerrero-Cristancho, J. S., Vásquez-Correa, J. C., & Orozco-Arroyave, J. R. (2020). Word-embeddings and grammar features to detect language disorders in Alzheimer's disease patients. *TecnoLógicas*, 23(47), 63-75.
- Guo, Y., Li, C., Roan, C., Pakhomov, S., & Cohen, T. (2021). Crossing the "Cookie Theft" corpus chasm: Applying what BERT learns from outside data to the ADReSS challenge dementia detection task. *Frontiers in Computer Science*, 3:642517.
- Guo, Z., Ling, Z., & Li, Y. (2019). Detecting Alzheimer's disease from continuous speech using language models. *Journal of Alzheimer's Disease*, 70(4), 1163-1174.
- Gulapalli, A. S., & Mittal, V. K. (2022). Detection of Alzheimer's disease through speech features and machine learning classifiers. In *Intelligent Sustainable Systems* (pp. 627-639). Springer, Singapore.

- Guo, Z., Liu, Z., Ling, Z., Wang, S., Jin, L., & Li, Y. (2020, December). Text classification by contrastive learning and cross-lingual data augmentation for Alzheimer's disease detection. In *Proceedings of the 28th International Conference on Computational Linguistics* (pp. 6161-6171).
- Haider, F., De La Fuente, S., Albert, P., & Luz, S. (2020, May). Affective speech for Alzheimer's dementia recognition. *LREC: Resources and ProcessIng of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments (RaPID)*. *European Language Resources Association (ELRA)*, 67-73.
- Haider, F., De La Fuente, S., & Luz, S. (2019). An assessment of paralinguistic acoustic features for detection of Alzheimer's dementia in spontaneous speech. *IEEE Journal of Selected Topics in Signal Processing*, 14(2), 272-281.
- Han, H. J., BN, S., Qiu, L., & Abdullah, S. (2023). Automatic classification of dementia using text and speech data. In *Multimodal AI in Healthcare* (pp. 399-407). Springer, Cham.
- Hason, L., & Krishnan, S. Spontaneous speech feature analysis for Alzheimer's disease screening using a random forest classifier. *Frontiers in Digital Health*, 229.
- Haulcy, R., & Glass, J. (2020). Classifying Alzheimer's disease using audio and text-based representations of speech. *Frontiers in Psychology*, 11, 624137.
- He, R., Yuan, X., & Hinzen, W. (2023). Episodic thinking in Alzheimer's disease through the lens of language: linguistic analysis and transformer-based classification. *American Journal of Speech-Language Pathology*.
- Heo, D., Park, C. Y., Cheun, J., & Ko, M. J. (2022). Separating content from speaker identity in speech for the assessment of cognitive impairments. *arXiv preprint arXiv:2203.10827*.
<https://arxiv.org/pdf/2203.10827.pdf>
- Hernández-Domínguez, L., Ratté, S., Sierra-Martínez, G., & Roche-Bergua, A. (2018). Computer-based evaluation of Alzheimer's disease and mild cognitive impairment patients during a picture description task. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*, 10, 260-268.
- Hernandez-Dominguez, L., Ratté, S., Sierra, G., & Roche-Bergua, A. (2018). Automatic detection of Alzheimer's from picture descriptions. *Substance ÉTS*.

- Hlédiková, A., Woszczyk, G., Acman, A., Demetriou, S., & Schuller, B. (2022). Data augmentation for dementia detection in spoken language. *arXiv preprint arXiv:2206.12879v1*.
- Hoang, T., Nguyen, T. T., & Nguyen, H. D. (2023). Unified tensor network for multimodal dementia detection. In *Multimodal AI in Healthcare* (pp. 409-416). Springer, Cham.
- Hu, S., Xie, X., Geng, M., Cui, M., Deng, J., Wang, T., ... & Meng, H. (2022). Exploiting cross-domain and cross-lingual ultrasound tongue imaging features for elderly and dysarthric speech recognition. *arXiv preprint arXiv:2206.07327*.
- Hu, S., Xie, X., Jin, Z., Geng, M., Wang, Y., Cui, M., ... & Meng, H. (2023, June). Exploring self-supervised pre-trained ASR models for dysarthric and elderly speech recognition. In *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1-5.
- Hu, S., Xie, X., Liu, S., Yu, J., Ye, Z., Geng, M., ... & Meng, H. (2020). Bayesian learning of LF-MMI trained time delay neural networks for speech recognition. *arXiv preprint arXiv:2012.04494*.
- Ilias, L., & Askounis, D. (2023). Context-aware attention layers coupled with optimal transport domain adaptation and multimodal fusion methods for recognizing dementia from spontaneous speech. *Knowledge-Based Systems*, 110834.
- Ilias, L., & Askounis, D. (2022). Multimodal deep learning models for detecting dementia from speech and transcripts. *Frontiers in Aging Neuroscience*, 14, Article 830943. doi:10.3389/fnagi.2022.830943
- Ilias, L., & Askounis, D. (2021). Explainable identification of dementia from transcripts using transformer networks. *arXiv preprint arXiv:2109.06980*.
- Ilias, L., Askounis, D., & Psarras, J. (2022, September). A Multimodal approach for dementia detection from spontaneous speech with tensor fusion layer. In *2022 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)*, 1-5.
- Ilias, L., Askounis, D., & Psarras, J. (2021). Detecting dementia from speech and transcripts using transformers. *arXiv preprint arXiv:2110.14769*.
- JabaSheela, L., Vasudevan, S., & Yazhini, V. R. (2020). A hybrid model for detecting linguistic cues in Alzheimer's disease patients. *Journal of Information and Computational Science*, 10(1), 85-90.

- Jain, M., Doshi, R., Sehra, V., & Sethia, D. (2020, February). *Exploring the effects of different embedding algorithms and neural architectures on early detection of Alzheimer's disease*. Paper presented at International Semantic Intelligence Conference, New Delhi, India.
- Javeed, A., Dallora, A. L., Berglund, J. S., Ali, A., & Anderberg, P. (2023). Machine learning for dementia prediction: A systematic review and future research directions. *Journal of Medical Systems, 47*(17). <https://doi.org/10.1007/s10916-023-01906-7>
- Jo, E., Oh, S. J., Choi, S., & Sung, J. E. (2021, October). *Word class-based clustering and switching analyses of phonemic fluency in Alzheimer's disease*. Poster presented at the Academy of Aphasia.
- Jin, Z., Geng, M., Deng, J., Wang, T., Hu, S., Li, G., & Liu, X. (2023). Personalized adversarial data augmentation for dysarthric and elderly speech recognition. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*.
- Johannßen, D., & Biemann, C. Between the lines: Machine learning for prediction of psychological traits - a survey. *Structure, 7*(1), 8.
- Jonasson, A., A. & Wahlforss, A. (2020). Diagnosis of dementia using transformer models. Master's thesis, KTH Royal Institute of Technology, School of Electrical Engineering and Computer Science.
- Jonasson, A., A., Wahlforss, A., Bestow, J., & Gustafsson, J. (2020). *Early dementia diagnosis from spoken language using a transformer approach*. Poster presented at Technology and Dementia Preconference, Alzheimer's Association International Conference.
- Julaiha, A. N., & Vasudevan, B. (2022, April). A report on Alzheimer's disease action and semantical fluency. In *2022 8th International Conference on Smart Structures and Systems (ICSSS)*, 1-5.
- Kamikubo, R., Dwivedi, U., & Kacorri, H. (2021, October). Sharing practices for datasets related to accessibility and aging. In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21)*, Virtual Event, USA. <https://doi.org/10.1145/3441852.3471208>
- Karande, S., & Kulkarni, V. (2023). Automated prognosis of Alzheimer's disease using machine learning classifiers on spontaneous speech features. *International Journal of Intelligent Systems and Applications in Engineering, 11*(2), 245-251.

- Karande, S., & Kulkarni, V. (2023). Advancing neurodegenerative disorder diagnosis: A machine learning-driven evaluation of assessment modalities. *International Journal of Intelligent Systems and Applications in Engineering*, 12(5s), 309-323.
- Karlekar, S., Niu, T., & Bansal, M. (2018). Detecting linguistic characteristics of Alzheimer's dementia by interpreting neural models. *arXiv preprint arXiv:1804.06440*.
- Ke, X., Mak, M. W., Li, J., & Meng, H. M. (2021, December). Dual dropout ranking of linguistic features for Alzheimer's disease recognition. In *2021 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, 743-749.
- Ke, X., Mak, M. W., Meng, H. M. (2023). Automatic selection of spoken language biomarkers for dementia detection. *Neural Networks* (2023). <https://doi.org/10.1016/j.neunet.2023.10.018>
- Khan, Y. F., Kaushik, B., Rahmani, M. K. I., & Ahmed, M. E. (2022). Stacked deep dense neural network model to predict Alzheimer's dementia using audio transcript data. *IEEE Access*.
- Khan, Y. F., Kaushik, B., Rahmani, M. K. I., & Ahmed, M. E. (2022). HSI-LFS-BERT: Novel hybrid swarm intelligence based linguistics feature selection and computational intelligent model for Alzheimer's prediction using audio transcript. *IEEE Access*, 10, 126990-127004.
- Kielar, A., Deschamps, T., Jokel, R., & Meltzer, J. A. (2018). Abnormal language-related oscillatory responses in primary progressive aphasia. *NeuroImage: Clinical*, 18, 560-574.
- Klumpp, P., Fritsch, J., & Nöth, E. (2018, October). ANN-based Alzheimer's disease classification from bag of words. In *Speech Communication; 13th ITG-Symposium* (pp. 1-4). VDE.
- Kokkinakis, D., Fors, K. L. F. L., Björkner, E., & Nordlund, A. (2017, May). Data collection from persons with mild forms of cognitive impairment and healthy controls - Infrastructure for classification and prediction of dementia. In *Proceedings of the 21st Nordic Conference on Computational Linguistics*, (pp. 172-182). Linköping University Electronic Press.
- Kokkinakis, D., Fors, K. L., Fraser, K. C., & Nordlund, A. (2018). A Swedish cookie-theft corpus. In *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*.
- Kong, A. P. H., Cheung, R. T. H., Wong, G. H., Choy, J. C., Dai, R., &

- Spector, A. (2023). Spoken discourse in episodic autobiographical and verbal short-term memory in Chinese people with dementia: The roles of global coherence and informativeness. *Frontiers in Psychology, 14*, 1124477.
- Kong, W. (2019). *Exploring neural models for predicting dementia from language*. Master's thesis, University of British Columbia, Department of Computer Science.
- Kong, W., Jang, H., Carenini, G., & Field, T. S. (2021). Exploring neural models for predicting dementia from language. *Computer Speech & Language, 68*, 101181.
- Koo, J., Lee, J. H., Pyo, J., Jo, Y., & Lee, K. (2020, October). *Exploiting multi-modal features from pre-trained networks for Alzheimer's dementia recognition*. Presentation at INTERPEECH 2020, *arXiv preprint arXiv:2009.04070*.
- Kothari, M., Shah, D. V., Moulya, T., Rao, S. P., & Jayashree, R. (2023). Measures of lexical diversity and detection of Alzheimer's using speech. In *ICAART (3)*, 806-812.
- Krstev, I., Pavikjevikj, M., Toshevaska, M., & Gievska, S. (2022). Multimodal data fusion for automatic detection of Alzheimer's disease. In *International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management* (pp. 79-94). Springer, Cham.
- Kumar, Y., Maheshwari, P., Joshi, S., & Baths, V. (2021). ML-based analysis to identify speech features relevant in predicting Alzheimer's disease. In *Proceedings of the 8th International Conference on Computing and Artificial Intelligence* (pp. 207-213).
- Kurdi, M. Z. (2023). Automatic identification of Alzheimer's disease using lexical features extracted from language samples. *arXiv preprint arXiv:2307.08070*.
- Laguarta, J., Hueto, F., Rajasekaran, P., Sarma, S., & Subirana, B. (2020). Longitudinal speech biomarkers for automated Alzheimer's detection.
- Laguarta, J., & Subirana, B. (2021). Longitudinal speech biomarkers for automated Alzheimer's detection. *Frontiers in Computer Science 3*:624694.
- Land, W. H., & Schaffer, J. D. (2020). Alzheimer's disease and speech background. In *The Art and Science of Machine Intelligence* (pp. 107-135). Springer, Cham.

- Lanzi, A., Lindsay, A., & Bourgeois, M. (2017, November). *Verbal fluency in dementia: Changes over time*. Poster presented at the American Speech-Language-Hearing Association Convention, Los Angeles, CA.
- Lanzi, A. M., Saylor, A. K., Fromm, D., Liu, H., MacWhinney, B., & Cohen, M. (2023). DementiaBank: Theoretical rationale, protocol, and illustrative analyses. *American Journal of Speech-Language Pathology*. https://doi.org/10.1044/2022_AJSLP-22-00281
- Li, B. (2019). *Automatic detection of dementia in Mandarin Chinese*. Master's thesis, University of Toronto, Department of Computer Science.
- Li, B., Hsu, Y. T., & Rudzicz, F. (2019). Detecting dementia in Mandarin Chinese using transfer learning from a parallel corpus. *arXiv preprint arXiv:1903.00933*.
- Li, C., Cohen, T., & Pakhomov, S. (2022). The far side of failure: Investigating the impact of speech recognition errors on subsequent dementia classification. *arXiv preprint arXiv:2211.07430*.
- Li, C., Xu, W., Cohen, T., Michalowski, M. & Pakhomov, S. (2023). TRESTLE: Toolkit for reproducible execution of speech, text and language experiments. *arXiv preprint arXiv:2302.07322v1*.
- Li, J., & Huang, P. (2021, November). Task-oriented feature representation for spontaneous speech of AD patients. In *International Symposium on Bioinformatics Research and Applications* (pp. 46-57). Springer, Cham.
- Li, J., Song, K., Li, J., Zheng, B., Li, D., Wu, X., ... & Meng, H. (2023). Leveraging pretrained representations with task-related keywords for Alzheimer's disease detection. *arXiv preprint arXiv:2303.08019*.
- Li, R. A., Hajjar, I., Goldstein, F., & Choi, J. D. (2020, December). Analysis of hierarchical multi-content text classification model on B-SHARP dataset for early detection of Alzheimer's disease. In *Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing* (pp. 358-365).
- Li, Y., Lin, Y., Ding, H., & Li, C. (2019). Speech databases for mental disorders: A systematic review. *General Psychiatry*, 32(3).
- Li, C., Knopman, D., Xu, W., Cohen, T., & Pakhomov, S. (2022). GPT-

- D: Inducing dementia-related linguistic anomalies by deliberate degradation of artificial neural language models. *arXiv preprint arXiv:2203.13397*. <https://arxiv.org/pdf/2203.13397.pdf>
- Li, J., Meng, Y., Ma, L., Du, S., Zhu, H., Pei, Q., & Shen, S. (2021). A federated learning based privacy-preserving smart healthcare System. *IEEE Transactions on Industrial Informatics*.
- Li, J., Song, K., Li, J., Zheng, B., Li, D., Wu, X., ... & Meng, H. (2023, June). Leveraging pretrained representations with task-related keywords for Alzheimer's disease detection. In *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1-5.
- Li, J., Yu, J., Ye, Z., Wong, S., Mak, M., Mak, B., ... & Meng, H. (2021, June). A comparative study of acoustic and linguistic features classification for Alzheimer's disease detection. In *ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 6423-6427.
- Li, Y., Rudzicz, F., & Novikova, J. (2019). Variations on the Chebyshev-Lagrange activation function. *arXiv preprint arXiv:1906.10064*.
- Liang, X., Batsis, J. A., Zhu, Y., Driesse, T. M., Roth, R. M., Kotz, D., & MacWhinney, B. (2022). Evaluating voice-assistant commands for dementia detection. *Computer Speech & Language*, 72, 101297.
- Lin, S. Y., Chang, H. L., Wai, T., Fu, L. C., & Chang, Y. L. (2022, October). Contrast-enhanced automatic cognitive impairment detection system with pause-encoder. In *2022 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, 2796-2801.
- Lin, Y. (2013). *Verbal fluency tasks in dementia: Effects of cognition, education, and gender*. Undergraduate honors thesis, The Ohio State University, Speech and Hearing Science.
- Lindsay, H., Tröger, J., & König, A. (2021). Language impairment in Alzheimer's disease – robust and explainable evidence for AD-related deterioration of spontaneous speech through multilingual machine learning. *Frontiers in Aging Neuroscience*, 13:642033.
- Linz, N., Tröger, J., Alexandersson, J., Wolters, M., König, A., & Robert, P. (2017, November). Predicting dementia screening and staging scores from semantic verbal fluency performance. In *IEInternational Conference on Data Mining (ICDM)-Workshop on Data Mining for Aging, Rehabilitation and Independent*

Assisted Living, (pp. 719-728).

- Liu, H., MacWhinney, B., Fromm, D., & Lanzi, A. (2023). Automation of language sample analysis. *Journal of Speech, Language, and Hearing Research*, 1-13.
- Liu, J., Shen, X., Liu, H., & Du, H. (2023). Dependency network approach to the oral production of English- and Chinese-speaking healthy older adults. *Speech, Language and Hearing*. doi:10.1080/2050571X.2023.2241759
- Liu, L., Zhao, S., Chen, H., & Wang, A. (2020). A new machine learning method for identifying Alzheimer's disease. *Simulation Modelling Practice and Theory*, 99, 102023.
- Liu, N., Luo, K., Yuan, Z., & Chen, Y. (2022). A transfer learning method for detecting Alzheimer's disease based on speech and natural language processing. *Frontiers in Public Health*, 10, Article 772592. doi:10.3389/fpubh.2022.772592
- Liu, Z., Guo, Z., Ling, Z., & Li, Y. (2021). Detecting Alzheimer's disease from speech using neural networks with bottleneck features and data augmentation. In *ICASSP 2021-2021 International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 7323-7327.
- Liu, Z., Proctor, L., Collier, P., Casenhiser, D., Paek, E. J., Yoon, S. O., & Zhao, X. (2021). Machine learning of transcripts and audio recordings of spontaneous speech for diagnosis of Alzheimer's disease. *Alzheimer's & Dementia*, 17, e057556.
- Liu, Z., Proctor, L., Collier, P. N., & Zhao, X. (2021, September). Automatic diagnosis and prediction of cognitive decline associated with Alzheimer's dementia through spontaneous speech. In *2021 IEEE International Conference on Signal and Image Processing Applications (ICSIPA)*, 39-43.
- Lofgren, M., & Hinzen, W. (2022). Breaking the flow of thought: increase of empty pauses in the connected speech of people with mild and moderate Alzheimer's disease. *Journal of Communication Disorders*, 106214.
<https://reader.elsevier.com/reader/sd/pii/S0021992422000338?token=0FC83C5F33EF67140281C77342E3CF9419BE5D811C0ED988AA0FB6FBA7C99AE33A58E0F9080FBBB5AE9B871B86EBFE6D&originRegion=us-east-1&originCreation=20220402180437>
- Luz, S. (2017, June). Longitudinal monitoring and detection of Alzheimer's type dementia from spontaneous speech data. In *2017 IEEE 30th International Symposium on Computer-Based*

Medical Systems (CBMS), 45-46.

- Luz, S., Haider, F., de la Fuente, S., Fromm, D., & MacWhinney, B. (2021, September). *Detecting cognitive decline using speech only: The ADReSS_o Challenge*. Presentation at INTERSPEECH 2021.
- Luz, S., Haider, F., de la Fuente, S., Fromm, D., & MacWhinney, B. (2020). Alzheimer's dementia recognition through spontaneous speech: The ADReSS challenge. *arXiv preprint arXiv:2004.06833*.
- Luz, S., Haider, F., de la Fuente Garcia, S., Fromm, D., & MacWhinney, B. (2021). Alzheimer's dementia recognition through spontaneous speech (F. Haider, S. Luz, D. Fromm, & B. MacWhinney, Eds.). *Alzheimer's Dementia Recognition Through Spontaneous Speech*, 5-8. *Frontiers in Computer Science*.
- Luz, S., Haider, F., Fromm, D., Lazarou, I., Kompatsiaris, I., & MacWhinney, B. (2023). Multilingual Alzheimer's dementia recognition through spontaneous speech: a signal processing grand challenge. *arXiv preprint arXiv:2301.05562*.
- Lyu, G., & Dong, A. (2019). Automatic selection of lexical features for detecting Alzheimer's disease using bag-of-words model and genetic algorithm. *International Journal of Computer Applications in Technology*, 61(4), 306-311.
- Mahajan, P., & Baths, V. (2021). Acoustic and language based deep learning approaches for Alzheimer's dementia detection from spontaneous speech. *Frontiers in Aging Neuroscience*, 13, 623607.
- Makiuchi, M.R., Warnita, T., Inoue, N., Shinoda, K., Yoshimura, M., Kitazawa, M. Funaki, K., Egushi, Y., & Kishimoto, T. (2021). *Speech paralinguistic approach for detecting dementia using gated convolutional neural network*. *IEICE TRANSACTIONS on Information and Systems*, 104(11), 1930-1940.
- Martinc, M., Haider, F., Pollak, S., & Luz, S. (2021). Temporal integration of text transcripts and acoustic features for Alzheimer's diagnosis based on spontaneous speech. *Frontiers in Aging Neuroscience* 13:642647.
- Martinc, M., & Pollak, S. (2020, October). *Tackling the ADReSS challenge: a multimodal approach to the automated recognition of Alzheimer's dementia*. *INTER_SPEECH, 2020*, 2157-2161.
- Masrani, V. (2017). *Detecting dementia from written and spoken language*. Master's thesis, University of British Columbia,

Department of Computer Science.

- Masrani, V., Murray, G., Field, T. S., & Carenini, G. (2017, May). Domain adaptation for detecting Mild Cognitive Impairment. In *Canadian Conference on Artificial Intelligence* (pp. 248-259). Springer, Cham.
- Matošević, L., & Jović, A. (2022, May). Accurate detection of dementia from speech transcripts using RoBERTa model. In *2022 45th Jubilee International Convention on Information, Communication and Electronic Technology (MIPRO)*, 1478-1484.
- Meerza, S. I. A., Li, Z., Liu, L., Zhang, J., & Liu, J. (2022, July). Fair and privacy-preserving Alzheimer's disease diagnosis based on spontaneous speech analysis via federated learning. In *2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, 1362-1365.
- Meghanani, A., Anoop, C. S., & Ramakrishnan, A.G. (2021). Recognition of Alzheimer's dementia from the transcriptions of spontaneous speech using fastText and CNN models. *Frontiers in Computer Science* 3:624558.
- Meghanani, A., Anoop, C. S., & Ramakrishnan, A. G. (2021, January). An exploration of log-mel spectrogram and MFCC features for Alzheimer's dementia recognition from spontaneous speech. In *2021 IEEE Spoken Language Technology Workshop (SLT)*, 670-677.
- Melistas, T., Kapelonis, L., Antoniou, N., Mitseas, P., Sgouropoulos, D., Giannakopoulos, T., Katsamanis, A., & Narayanan, S. (2023, August). *Cross-lingual features for Alzheimer's dementia detection from speech*. Paper presented at INTERSPEECH 2023, Dublin, Ireland.
- Meng, H., Mak, B., Mak, M., Fung, H., Gong, X., Kwok, T., ... & Wang, Y. (2023, August). *Integrated and enhanced pipeline system to support spoken language analytics for screening neurocognitive disorders*. Paper presented at INTERSPEECH 2023, Dublin, Ireland.
- Miah, Y., Prima, C. N. E., Seema, S. J., Mahmud, M., & Kaiser, M. S. (2020). Performance comparison of machine learning techniques in identifying dementia from open access clinical datasets. In *Advances on Smart and Soft Computing* (pp. 79-89). Springer, Singapore.
- Milana, S. (2023, January). Dementia classification using attention mechanism on audio data. In *2023 IEEE 21st World Symposium*

on Applied Machine Intelligence and Informatics (SAMI),
000103-000108.

- Millington, T., & Luz, S. (2021). Analysis and classification of word co-occurrence networks from Alzheimer's patients and controls. *Frontiers in Computer Science*, 3, 36.
- Mirheidari, B., Blackburn, D., Walker, T., Venneri, A., Reuber, M., & Christensen, H. (2018). Detecting signs of dementia using word vector representations. In *INTERSPEECH* (pp. 1893-1897).
- Mirheidari, B., Pan, Y., Blackburn, D., O'Malley, R., & Christensen, H. (2021, September). Identifying cognitive impairment using sentence representation vectors. *Proc. Interspeech 2021*, 2941-2945.
- Mirheidari, B., Pan, Y., Walker, T., Reuber, M., Venneri, A., Blackburn, D., & Christensen, H. (2019). Detecting Alzheimer's disease by estimating attention and elicitation path through the alignment of spoken picture descriptions with the picture prompt. *arXiv preprint arXiv:1910.00515*.
- Mittal, A., Sahoo, S., Datar, A., Kadiwala, J., Shalu, H., & Mathew, J. (2020). Multi-modal detection of Alzheimer's disease from speech and text. *arXiv preprint arXiv:2012.00096*.
- Montesi, D., Bertini, F., & Lutero, G. *A tool for data analysis using autoencoders*. Master's thesis, University of Bologna, Department of Computer Science.
- Morales, M. R. (2018). Multimodal Depression Detection: An investigation of features and fusion techniques for automated systems. Doctoral dissertation, The City University of New York, Department of Linguistics.
- Morales, M., Scherer, S., & Levitan, R. (2017). A Cross-modal review of indicators for depression detection systems. In *Proceedings of the Fourth Workshop on Computational Linguistics and Clinical Psychology--From Linguistic Signal to Clinical Reality* (pp. 1-12).
- Morris, R. J., Oh, C., & Franklin, P. (2023). Second formant transitions for acoustic analysis to differentiate among dementia types. *Journal of the Acoustical Society of America*, 154(4_supplement): A206. doi: 10.1121/10.0023290
- Morris, R., Oh, C., Wang, X., & Raskin, M. (2022, November). *Acoustic analyses of expressive prosodic impairments in people with dementia*. Poster presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA.

- Mueller, K. D. (2017). *Connected language in early Mild Cognitive Impairment*. Doctoral dissertation, The University of Wisconsin-Madison.
- Mueller, K. D., Koscik, R. L., Clark, L. R., Hermann, B. P., Johnson, S. C., & Turkstra, L. S. (2017). The latent structure and test-retest stability of connected language measures in the Wisconsin Registry for Alzheimer's Prevention (WRAP). *Archives of Clinical Neuropsychology*, 1-13.
- Mueller, K. D., Koscik, R. L., Hermann, B., Johnson, S. C., & Turkstra, L. S. (2017). Declines in connected language are associated with very early Mild Cognitive Impairment: Results from the Wisconsin Registry for Alzheimer's Prevention. *Frontiers in Aging Neuroscience*, 9, 437.
- Mueller, K. D., Koscik, R. L., Turkstra, L. S., Riedeman, S. K., LaRue, A., Clark, L. R., ... & Johnson, S. C. (2016). Connected language in late middle-aged adults at risk for Alzheimer's disease. *Journal of Alzheimer's Disease*, 54(4), 1539-1550.
- Musoles, C. F., Coca, D., & Richmond, P. (2018, February). Communication optimisation in distributed Spiking Neural Network simulations. In *Book of abstracts: 2nd HBP Student Conference-Transdisciplinary Research Linking Neuroscience, Brain Medicine and Computer Science | 14-16 February 2018 | Ljubljana, Slovenia* (p. 21).
- Nambiar, A. S., Likhita, K., Pujya, K. S., Gupta, D., Vekkot, S., & Lalitha, S. (2022, November). *Comparative study of deep classifiers for early dementia detection using speech transcripts*. In 2022 IEEE 19th India Council International Conference (INDICON), pp. 1-6.
- Nasrolahzadeh, M., Rahnamayan, S., & Haddadnia, J. (2021). Alzheimer's disease diagnosis using genetic programming based on higher order spectra features. *Machine Learning with Applications*, 100225.
- Nguyen, T. T. (2023). *Multimodal machine learning in medical screenings*. Master's thesis, University of Glasgow, Computing Science.
- Nikolova, M., Nanovic, Z., & Gievska, S. (2022). Approach for screening and early diagnosis of Alzheimer's disease through detection of linguistic deficiencies and other biomarkers. Proceedings ictinnovations.org.
- Ning, L., Tang, Q., & Luo, K. (2021). An approach for assisting

diagnosis of Alzheimer's disease based on multi-model features of narrative speech. Research Square.
https://assets.researchsquare.com/files/rs-344336/v1_stamped.pdf

- Niyas, K. M., & Thiyagarajan, P. (2023). A systematic review on early prediction of mild cognitive impairment to Alzheimer's using machine learning algorithms. *International Journal of Intelligent Networks*. <https://doi.org/10.1016/j.ijin.2023.03.004>
- Noorian, Z., Pou-Prom, C., & Rudzicz, F. (2017). On the importance of normative data in speech-based assessment. *arXiv preprint arXiv:1712.00069*.
- Novikova, J. (2022). Impact of acoustic noise on Alzheimer's disease detection from speech: should you let baby cry?. arXiv:2203.17110v1 [cs.SD].
<https://doi.org/10.48550/arXiv.2203.17110>
- Novikova, J. (2021). Robustness and sensitivity of BERT models predicting Alzheimer's disease from text. *arXiv preprint arXiv:2109.11888*.
- Novikova, J., Balagopalan, A., Shkaruta, K., & Rudzicz, F. (2019). Lexical features Are more vulnerable, syntactic features have more predictive power. *arXiv preprint arXiv:1910.00065*.
- Oh, C., Morris, R., & Wang, X. (2023). Analysis of emotional prosody as a tool for differential diagnosis of cognitive impairments: A pilot research. *Frontiers in Psychology, 14*, 2322.
- Oh, C., Morris, R., & Wang, X. (2022, November). *Listener perception of emotion expressed by people with and without cognitive impairment*. Poster presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA.
- Orimaye, S. O., Wong, J. S., Golden, K. J., Wong, C. P., & Soyiri, I. N. (2017). Predicting probable Alzheimer's disease using linguistic deficits and biomarkers. *BMC bioinformatics, 18*(1), 34.
- Orimaye, S.O., Wong, J. S., Golden, K.J. (2014). Learning predictive linguistic features for Alzheimer's disease and related dementias using verbal utterances. *Proceedings of the Workshop on Computational Linguistics and Clinical Psychology: From Linguistic Signal to Clinical Reality, 78–87*.
- Orimaye, S. O., Wong, J. S. M., & Wong, C. P. (2018). Deep language space neural network for classifying mild cognitive impairment and Alzheimer-type dementia. *PloS one, 13*(11), e0205636.

- Ortiz-Perez, D., Ruiz-Ponce, P., Tomás, D., Garcia-Rodriguez, J., Vizcaya-Moreno, M. F., & Leo, M. (2023). A deep learning-based multimodal architecture to predict signs of dementia. *Neurocomputing*, 548, 126413.
- Ortiz-Perez, D., Ruiz-Ponce, P., Tomás, D., & Garcia-Rodriguez, J. (2023). Deep learning-based dementia prediction using multimodal data. In *International Workshop on Soft Computing Models in Industrial and Environmental Applications* (pp. 260-269). Springer, Cham.
- Ossewaarde, R., Jonkers, R., Jalvingh, F., & Bastiaanse, R. (2020). Quantifying the uncertainty of parameters measured in spontaneous speech of speakers with dementia. *Journal of Speech, Language, and Hearing Research*, 2255–2270.
- Ossewaarde, R., Jonkers, R., Jalvingh, F., & Bastiaanse, R. (2017). Automated detection of unfilled pauses in speech of healthy and brain-damaged individuals. *Abstract from 5th International Conference on Statistical Language and Speech Processing SLSP 2017, Le Mans, France*.
- Ostrand, R., & Gunstad, J. (2020). Using automatic assessment of speech production to predict current and future cognitive function in older adults. *Journal of Geriatric Psychiatry and Neurology*, 0891988720933358.
- Padhee, S., Illendula, A., Sadler, M., Shalin, V. L., Banerjee, T., Thirunarayan, K., & Romine, W. L. (2020). Predicting early indicators of cognitive decline from verbal utterances. In *2020 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, 477-480.
- Padhee, S., Banerjee, T., Shalin, V. L., & Thirunarayan, K. (2020, April). *Identifying easy indicators of dementia*. Poster presented at Symposium of Student Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH.
- Palliya Guruge, C., Oviatt, S., Delir Haghghi, P., & Pritchard, E. (2021, October). Advances in multimodal behavioral analytics for early dementia diagnosis: A review. In *Proceedings of the 2021 International Conference on Multimodal Interaction* (pp. 328-340).
- Pan, Y. (2022). *Linguistic-and acoustic-based automatic dementia detection using deep learning methods*. Doctoral dissertation, University of Sheffield, Computer Science.
- Pan, Y., Lu, M., Shi, Y., & Zhang, H. (2023). A path signature approach

for speech-based dementia detection. *IEEE Signal Processing Letters*.

- Pan, Y., Mirheidari, B., Harris, J. M., Thompson, J., C., Jones, M., Snowden, J. S., Blackburn, D., & Christensen, H. (2021, September). *Using the outputs of different automatic speech recognition paradigms for acoustic- and BERT-based Alzheimer's dementia detection through spontaneous speech*. Presentation at INTERSPEECH 2021.
- Pan, Y., Mirheidari, B., Reuber, M., Venneri, A., Blackburn, D., & Christensen, H. (2019). Automatic hierarchical attention neural network for detecting AD. In *Interspeech* (pp. 4105-4109).
- Pan, Y., Mirheidari, B., Reuber, M., Venneri, A., Blackburn, D., & Christensen, H. (2020). Improving detection of Alzheimer's disease using automatic speech recognition to identify high-quality segments for more robust feature extraction. *Proc. Interspeech 2020*, 4961-4965.
- Pan, Y., Mirheidari, B., Harris, J. M., Thompson, J. C., Jones, M., Snowden, J. S., ... & Christensen, H. (2021, September). Using the outputs of different automatic speech recognition paradigms for acoustic-and BERT-based Alzheimer's dementia detection through spontaneous speech. *Proc. Interspeech 2021*, 3810-3814.
- Pan, Y., Nallanthighal, V. S., Blackburn, D., Christensen, H., & Härmä, A. (2021, June). *Multi-task estimation of age and cognitive decline from speech*. Paper presented at 2021 IEEE International Conference on Acoustics, Speech, and Signal Processing, Toronto, Canada.
- Pandey, S. K., Shekhawat, H. S., Bhasin, S., Jasuja, R., Prasanna, S. R. M. (2022). Alzheimer's dementia recognition using multimodal fusion of speech and text embeddings. In: J. H. Kim, M. Singh, J. Khan, U. S. Tiwary, M. Sur, & D. Singh, (Eds.) *Intelligent Human Computer Interaction*, 718-728, Springer, Cham.
- Panesar, K., & de Alba, M. B. P. C. (2023). Natural language processing-driven framework for the early detection of language and cognitive decline. *Language and Health*.
<https://doi.org/10.1016/j.laheal.2023.09.002>
- Paniker, S., Taksande, U., Ghotkar, P., Gautam, A., Dave, N., Sonule, M., & Badhiye, S. (2021). Mobile based detection and prevention of Alzheimer's disease. *International Journal of Engineering and Technology*, 8(5), 1895-1901.

- Pappagari, R., Cho, J., Joshi, S., Moro-Velazquez, L., Zelasko, P., Villalba, J., & Dehak, N. (2021, September). Automatic detection and assessment of Alzheimer disease using speech and language technologies in low-resource scenarios. In *Proc. Interspeech* (pp. 3825-3829).
- Pappagari, R., Cho, J., Velazquez, L. M., & Dehak, N. (2020, October). *Using state of the art speaker recognition and natural language processing technologies to detect Alzheimer's disease and assess its severity*. Presentation at INTERSPEECH 2020.
- Parsa, M., Alam, M. R., & Mihailidis, A. (2021). Towards AI-powered language assessment tools. Research Square. https://assets.researchsquare.com/files/rs-246079/v1_stamped.pdf
- Parsapoor, M., Ghodrati, H., Dentamaro, V., Madan, C. R., Lazarou, I., Nikolopoulos, S., & Kompatsiaris, I. (2023). AI and non AI assessments for dementia. *arXiv preprint arXiv:2307.01210*.
- Patel, A., & Singh, N. (2021). Automatic speech analysis for detection of dementia using machine learning – a survey. *SAGE International Journal of Science and Engineering*, 1(1), 26-35.
- Peplinski, J., Shor, J., Joglekar, S., Garrison, J., & Patel, S. (2020). FUN! Fast, universal, non-semantic speech embeddings. *arXiv preprint arXiv:2011.04609*.
- Pérez-Toro, P. A. (2021). *Speech and natural language processing for the assessment of customer satisfaction and neuro-degenerative diseases*. Master's thesis, University of Antioquia, Telecommunication Engineering.
- Pérez-Toro, P. A., Arias-Vergara, T., Braun, F., Honig, F., Tobón-Quintero, C. A., Aguillón, D., ... & Orozco-Arroyave, J. R. (2023). *Automatic assessment of Alzheimer's across three languages using speech and language features*. Presentation at INTERSPEECH 2023, Dublin, Ireland.
- Pérez-Toro, P. A., Bayerl, S. P., Arias-Vergara, T., Vásquez-Correa, J. C., Klumpp, P., Schuster, M., ... & Riedhammer, K. (2021). Influence of the interviewer on the automatic assessment of Alzheimer's Disease in the context of the ADReSSo challenge. In *Interspeech* (pp. 3785-3789).
- Pérez-Toro, P. A., Klumpp, P., Hernandez, A., Arias-Vergara, T., Lillo, P., Slachevsky, A., ... & Orozco-Arroyave, J. R. (2022). Alzheimer's detection from English to Spanish using acoustic and linguistic embeddings. *Proc. Interspeech 2022*, 2483-2487.

- Pérez-Toro, P. A., Rodríguez-Salas, D., Arias-Vergara, T., Klumpp, P., Schuster, M., Nöth, E., ... & Maier, A. K. (2022). Interpreting acoustic features for the assessment of Alzheimer's disease using ForestNet. *Smart Health*, 26, 100347.
- Pérez-Toro, P. A., Rodríguez-Salas, D., Arias-Vergara, T., Bayerl, S. P., Klumpp, P., Riedhammer, K., ... & Orozco-Arroyave, J. R. (2023, June). Transferring quantified emotion knowledge for the detection of depression in Alzheimer's disease using Forestnets. In *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1-5.
- Pérez-Toro, P. A., Vásquez-Correa, J. C., Arias-Vergara, T., Klumpp, P., Sierra-Castrillón, M., Roldán-López, M. E., ... & Nöth, E. (2021, June). Acoustic and linguistic analyses to assess early-onset and genetic Alzheimer's disease. In *ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 8338-8342.
- Pérez-Toro, P. A., Vasquez-Correa, J. C., Bocklet, T., Noth, E., & Orozco-Arroyave, J. R. (2021). User state modeling based on the arousal-valence plane: Applications in customer satisfaction and health-care. *IEEE Transactions on Affective Computing*.
- Pompili, A., Abad, A., de Matos, D. M., & Martins, I. P. (2018). Topic coherence analysis for the classification of Alzheimer's disease. In *IberSPEECH* (pp. 281-285).
- Pompili, A., Alberto A., de Matos, D. M., & Martins, I. P. (2020). Pragmatic aspects of discourse production for the automatic identification of Alzheimer's disease. *IEEE Journal of Selected Topics in Signal Processing*.
- Pompili, A., Rolland, T., & Abad, A. (2020, October). *The INESC-ID multi-modal system for the ADRess 2020 Challenge*. Presentation at INTERSPEECH 2020, *arXiv preprint arXiv:2005.14646*.
- Popat, R., & Ive, J. Embracing the uncertainty in human-machine collaboration to support clinical decision making for mental health conditions. *Frontiers in Digital Health*, 5, 1188338.
- Pou-Prom, C., & Rudzicz, F. (2018). Learning multiview embeddings for assessing dementia. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing* (pp. 2812-2817).
- Pranav, G., Varsha, K., & Gayathri, K. S. (2023, May). Early Alzheimer detection through speech analysis and vision transformer

approach. In *Speech and Language Technologies for Low-Resource Languages: First International Conference, SPELLL 2022, Kalavakkam, India, November 23–25, 2022, Proceedings* (pp. 265-276). Cham: Springer International Publishing.

- Priyadarshinee, P., Clarke, C. J., Melechovsky, J., Lin, C. M. Y., BT, B., & Chen, J. M. (2023). Alzheimer's dementia speech (audio vs. text): Multi-modal machine learning at high vs. low resolution. *Applied Sciences, 13*(7), 4244.
- Qi, X., Zhou, Q., Dong, J., & Bao, W. Noninvasive automatic detection of Alzheimer's disease from spontaneous speech: A review. *Frontiers in Aging Neuroscience, 15*, 1224723.
- Qiao, Y., Yin, X., Wiechmann, D., & Kerz, E. (2021, September). Alzheimer's disease detection from spontaneous speech through combining linguistic complexity and (dis)fluency features with pretrained language models. In *Proc. Interspeech 2021*, 3805-3809. doi:10.21437/Interspeech.2021-1415
- Raskin, M. S. (2022). *Acoustic analysis of expressive prosodic impairment in people with dementia*. Honors thesis, Florida State University, Communication Sciences and Disorders.
- Ratté, S. (2019, February-March). *How can machine learning and natural language processing help researchers to study communication behaviors in later age?* Presentation at Corpora for Language and Aging Research 4, Helsinki, Finland.
- Rauniyar, K., Shiwakoti, S., Poudel, S., Thapa, S., Naseem, U., & Nasim, M. (2023, July). Breaking barriers: Exploring the diagnostic potential of speech narratives in Hindi for Alzheimer's disease. In *Proceedings of the 5th Clinical Natural Language Processing Workshop* (pp. 24-30).
- Rauniyar, K., Thakur, S., Nevatia, A., & Shambharkar, P. G. (2023). *Early detection of Alzheimer's disease: The importance of speech analysis*. 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), Salem, India, 1069-1073. doi:10.1109/ICAAIC56838.2023.10140703
- Rini, P. L., & Gayathri, K. S. (2023). Cognitive decline assessment using semantic linguistic content and transformer deep learning architecture. *International Journal of Language & Communication Disorders*. doi:10.1111/1460-6984.12973
- Rofes, A., de Aguiar, V., Jonkers, R., Oh, S. J., DeDe, G., & Sung, J. E. (2020). What drives task performance during animal fluency in

people With Alzheimer's disease?. *Frontiers in Psychology*, 11, 1485.

- Rohanian, M., Hough, J., & Purver, M. (2021, September). *Alzheimer's dementia recognition using acoustic, lexical, disfluency and speech pause features robust to noisy inputs*. Presentation at INTERSPEECH 2021. arXiv:2106.15684v1
- Rohanian, M., Hough, J., & Purver, M. (2020, October). *Multi-modal fusion with gating using audio, lexical and disfluency features for Alzheimer's dementia recognition from spontaneous speech*. Presentation at INTERSPEECH 2020.
- Romano, M. F., Shih, L. C., Paschalidis, I. C., Au, R., & Kolachalama, V. B. (2023). Large language models in neurology research and future practice. *Neurology*.
doi:10.1212/WNL.0000000000207967
- Roshanzamir, A., Aghajan, H., & Baghshah, M. S. (2020). Transformer-based deep neural network language models for Alzheimer's disease detection from targeted speech. *BMC Medical Informatics and Decision Making*, 21, 1-14.
- Rudzicz, F., Currie, L.C., Danks, A., Mehta, T., & Zhao, S. (2014). Automatically identifying trouble-indicating speech behaviors in Alzheimer's disease. *Proceedings of the 16th International ACM SIGACCESS Conference on Computers & Accessibility*, 241-242.
<http://dx.doi.org/10.1145/2661334.2661382>
- Rudzicz, F., Wang, R., Begum, M., & Mihailidis, A. (2014). Speech recognition in Alzheimer's disease with personal assistive robots. *Proceedings of the Fifth Workshop on Speech and Language Processing for Assistive Technologies (SLPAT)*, 20-28.
- Sadeghian, R., Schaffer, J. D., & Zahorian, S. A. (2018). *Using automatic speech recognition to identify dementia in early stages*. Paper presented at the 170th meeting of the Acoustical Society of America.
- Sahu, H. K., Kumar, S., Alsamhi, S. H., Chaube, M. K., & Curry, E. (2022, October). Novel framework for Alzheimer early diagnosis using inductive transfer learning techniques. In *2022 2nd International Conference on Emerging Smart Technologies and Applications (eSmarTA)*, 1-7.
- Sahu, S. R., & Swetha, S. (2020). Improving the prediction rate of Alzheimer's disease through neuroimaging data using deep learning approaches. *Transaction on Biomedical Engineering Applications and Healthcare*, 1(1), 18-25.

- Sahwal, A. K., Singh, M., Kumari, N., Murari, K., & Prabha, S. (2023). Audio analysis for early diagnosis of Alzheimer's disease: A study on Fisher's Linear Discriminant and Mel-Frequency Cepstral Coefficients. In *Communications in Computer and Information Science (CCIS)*. Springer Professional.
- Saleem, T. J., Zahra, S. R., Wu, F., Alwakeel, A., Alwakeel, M., Jeribi, F., & Hijji, M. (2022). Deep learning-based diagnosis of Alzheimer's disease. *Journal of Personalized Medicine*, *12*(5), 815.
- Saltz, P., Lin, S. Y., Cheng, S. C., & Si, D. (2021, August). Dementia detection using transformer-based deep learning and natural language processing models. In *2021 IEEE 9th International Conference on Healthcare Informatics (ICHI)*, 509-510.
- Santander-Cruz, Y., Salazar-Colores, S., Paredes-García, W. J., Guendulain-Arenas, H., & Tovar-Arriaga, S. (2022). Semantic feature extraction using SBERT for dementia detection. *Brain Sciences*, *12*(2), 270. <https://doi.org/10.3390/brainsci12020270>
- Santos, L. B. D. (2020). *Representação de narrativas e extração de suas unidades de informação para automatização de testes neuropsicológicos*. Doctoral dissertation, Universidade de São Paulo.
- Santos, L. B. D., Corrêa Jr, E. A., Oliveira Jr, O. N., Amancio, D. R., Mansur, L. L., & Aluísio, S. M. (2017). Enriching complex networks with word embeddings for detecting Mild Cognitive Impairment from speech transcripts. *arXiv preprint arXiv:1704.08088*.
- Sarafidis, A. (2023). *Detecting Alzheimer's disease using NLP methods*. Master's thesis, University of Piraeus, Artificial Intelligence.
- Sarawgi, U., Zulfikar, W., Khincha, R., & Maes, P. (2020). Why have a unified predictive uncertainty? disentangling it using deep split ensembles. *arXiv preprint arXiv:2009.12406*.
- Sarawgi, U., Zulfikar, W., Soliman, N., & Maes, P. (2020). Multimodal inductive transfer learning for detection of Alzheimer's dementia and its severity. *arXiv preprint arXiv:2009.00700*.
- Saylor, A., Cohen, M., Fromm, D., MacWhinney, B., & Lanzi, A. (2022, November). Establishing the DementiaBank protocol: *Using big data to understand language changes in dementia*. Poster presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA.
- Searle, T., Ibrahim, Z., & Dobson, R. (2020, October). *Comparing*

natural language processing techniques for Alzheimer's dementia prediction in spontaneous speech. Presentation at INTERSPEECH 2020, arXiv preprint arXiv:2006.07358.

- Ševčík, A., & Rusko, M. (2022). A systematic review of Alzheimer's disease detection based on speech and natural language processing. In *2022 32nd International Conference Radioelektronika (RADIOELEKTRONIKA)*, 1-5.
- Shah, S. B., Bhandari, A., & Shambharkar, G. (2023, July). *Leveraging multimodal information in speech data for the non-invasive detection of Alzheimer's disease*. 14th International Conference on Computing Communication and Networking Technologies (ICCCNT). doi:10.1109/ICCCNT56998.2023.10307469
- Shah, Z. (2023). Alzheimer's dementia detection through machine learning: Analyzing linguistic and acoustic features in spontaneous speech. Master's thesis, University of Alberta, Computing Science.
- Shah, Z., Sawalha, J., Tasnim, M., Qi, S., Stroulia, E., & Greiner, R. (2021). Learning language and acoustic models for identifying Alzheimer's dementia from speech. *Front. Comput. Sci. 3: 624659*. doi: 10.3389/fcomp.
- Shahapure, N. H., Poornima, N., Kulkarni, S., Shilpa, V., Singh, R. R., & Kavan, P. (2022, May). NLP based word predictor for dementia patients: A systematic review. In *2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS)*, 1538-1543.
- Shi, M., Cheung, G., & Shahamiri, S. R. (2023). Speech and language processing with deep learning for dementia diagnosis: A systematic review. *Psychiatry Research*, 115538.
- Shinkawa, K., & Yamada, Y. (2018). Word repetition in separate conversations for detecting dementia: A preliminary evaluation on data of regular monitoring service. *AMIA Summits on Translational Science Proceedings, 2017*, 206.
- Shivhare, N., Rai, A., Rathod, S., & Khan, M. R. (2022). Automatic speech analysis of conversations for dementia detection using Bi-LSTM model. In *Swarm Intelligence and Machine Learning (pp. 205-220)*. CRC Press.
- Silva, M. G., Ribeiro, P., Bispo, B. C., & Rodrigues, P. M. (2023, October). Detecção da doença de Alzheimer através de parâmetros não-lineares de sinais de fala. Paper presented at XLI Simposio Brasileiro de Telecomunicacoes e Processamento

de Sinais - SBrT 2023, São José dos Campos, Brazil.

- Shor, J., Jansen, A., Maor, R., Lang, O., Tuval, O., Quitry, F. D. C., ... & Haviv, Y. (2020). Towards learning a universal non-semantic representation of speech. *arXiv preprint. arXiv:2002.12764*.
- Stegmann, G., Hahn, S., Bhandari, S., Kawabata, K., Shefner, J., Duncan, C. J., ... & Mueller, K. (2022). Automated semantic relevance as an indicator of cognitive decline: Out-of-sample validation on a large-scale longitudinal dataset. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*, 14(1), e12294.
- Sirts, K., Piguet, O., & Johnson, M. (2017). Idea density for predicting Alzheimer's disease from transcribed speech. *Proceedings of the 21st Conference on Computational Natural Language Learning (CoNLL 2017)*, 322-332.
- Slegers, A., Filiou, R. P., Montembeault, M., & Brambati, S. M. (2018). Connected speech features from picture description in Alzheimer's disease: a systematic review. *Journal of Alzheimer's Disease*, 65(2), 519-542.
- Sluis, R. A., Angus, D., Wiles, J., Back, A., Gibson, T., Liddle, J., ... & Angwin, A. J. (2020). An automated approach to examining pausing in the speech of people with dementia. *American Journal of Alzheimer's Disease & Other Dementias®*, 35, 1533317520939773.
- Srivatsan, S., Bamrah, S. K., & Gayathri, K. S. (2023). Multimodality dementia detection system using machine and deep learning. In *Computational Intelligence Aided Systems for Healthcare Domain* (pp. 235-254). CRC Press.
- Stegmann, G. M., Hahn, S., Liss, J., Berisha, V., & Mueller, K. D. (2021). Digital speech-based measures separate those with cognitive impairment from those without. *Alzheimer's & Dementia*, 17, e056454.
- Stegmann, G. M., Hahn, S., Liss, J., Berisha, V., & Mueller, K. D. (2021). Large-scale cross-sectional and longitudinal validation of a digital speech-based measure of cognition. *Alzheimer's & Dementia*, 17, e056199.
- Suárez Rodríguez, A. (2022, March). *Alzheimer's disease through role and reference grammar: A corpus-based approach*. 6th International Conference of Clinical Linguistics. Santiago de Compostela, Spain.
- Suárez Rodríguez, A. (2022, July). *The aktionsart of Alzheimer's*

- disease: A corpus-based analysis*. 9th International Conference on Meaning and Knowledge Representation. Madrid, Spain.
- Sunderman, M. (2012). *The effects of Alzheimer's disease on expressive language over time*. Undergraduate honors thesis, The Ohio State University.
- Sundermann, M., & Bourgeois, M. (2012, May). *The effects of Alzheimer's disease on expressive language over time*. Poster presented at the Denman Undergraduate Research Forum, OSU, Columbus, OH.
- Sung, J. E., Lee, S. E., DeDe, G., Oh, S. J., Shin, M. K., & Lee, S. E. (2018, May). *Semantic-phonemic discrepancy and its changes over time in Alzheimer's disease: Evidence from clustering and switching analyses*. Paper presented at the Clinical Aphasiology Conference, Austin, TX.
- Sung, J. E., Lim, Y., Kim, K., & Choi, S. (2021, October). *Noun-verb semantic distance analyses in sentence production of Alzheimer's disease*. Poster presented at the Academy of Aphasia.
- Sung, J. E., Park, J., Yoo, Y. R., Lim, Y., Choi, S. S., & Jo, E. (2022, May). *Analysis of phonological and semantic strategies in phonemic fluency for Alzheimer's disease*. Poster presented at the Clinical Aphasiology Conference, Wrightsville Beach, NC.
- Syed, Z. S., Syed, M. S. S., Lech, M., & Pirogova, E. (2021). Automated recognition of Alzheimer's dementia using bag-of-deep-features and model ensembling. *IEEE Access*, 9, 88377-88390.
- Syed, M. S. S., Syed, Z. S., Lech, M., & Pirogova, E. (2021, September). *Tackling the ADResso challenge 2021: The MUET-RMIT system for Alzheimer's dementia recognition from spontaneous speech*. Presentation at INTERSPEECH 2021.
- Syed, M. S. S., Syed, Z. S., Lech, M., & Pirogova, E. (2020, October). *Automated screening for Alzheimer's dementia through spontaneous speech*. *Interspeech, 2020*, 2222-2226.
- TaghiBeyglou, B., & Rudzicz, F. (2023, July). Who needs context? Classical techniques for Alzheimer's disease detection. In *Proceedings of the 5th Clinical Natural Language Processing Workshop* (pp. 102-107).
- TaghiBeyglou, B., & Rudzicz, R. (2023). Context is not key: Detecting Alzheimer's disease with both classical and transformer-based neural language models. *Natural Language Processing Journal*. <https://doi.org/10.1016/j.nlp.2023.100046>

- Tamm, B., & Vandenberghe, R. (2023). Cross-lingual transfer learning for Alzheimer's detection from spontaneous speech. *arXiv preprint arXiv:2303.03049*.
- Tan, J. X. (2023). Deep learning for fusing speech and text for detection of Alzheimer's disease. Bachelor's thesis, University of Texas at Austin, School of Computer Science and Engineering.
- Tanaka, H., Adachi, H., Ukita, N., Ikeda, M., Kazui, H., Kudo, T., & Nakamura, S. (2017). Detecting dementia through interactive computer avatars. *IEEE Journal of Translational Engineering in Health and Medicine*.
- Tang, J., Chen, W., Chang, X., Watanabe, S., & MacWhinney, B. (2023). A new benchmark of aphasia speech recognition and detection based on E-Branchformer and multi-task learning. *arXiv preprint arXiv:2305.13331*.
- Tang, L., Zhang, Z., Feng, F., Yang, L. Z., & Li, H. (2023). Explainable Alzheimer's disease detection using linguistic features from automatic speech recognition. *Dementia and Geriatric Cognitive Disorders*. doi:10.1159/000531818
- Thaler, F., & Gewald, H. (2021). Language characteristics supporting early Alzheimer's diagnosis through machine learning – a literature review. *Health Informatics – An International Journal*, 10(1), 5-23.
- Thapa, S., Adhikari, S., Naseem, U., Singh, P., Bharathy, G., Prasad, M. (2020). *Detecting Alzheimer's disease by exploiting linguistic information from Nepali transcript*. In: Yang, H., Pasupa, K., Leung, A.C.S., Kwok, J.T., Chan, J.H., King, I. (eds) Neural Information Processing. ICONIP 2020. Communications in Computer and Information Science, vol 1332. Springer, Cham. https://doi.org/10.1007/978-3-030-63820-7_20
- Tripathi, A., Chakraborty, R., & Kopparapu, S. K. Dementia classification using acoustic descriptors derived from subsampled signals. In *2020 28th European Signal Processing Conference (EUSIPCO)*, 91-95, IEEE.
- Tripathi, T., & Kumar, R. (2023). Speech-based detection of multi-class Alzheimer disease classification using machine learning. <https://www.researchsquare.com/article/rs-2825728/v1>
- Tsoi, K., Jai, P., Dowling, M., Titiner, J. R., Wagner, M., Capuano, A. W., & Donohue, M. C. (2022). Applications of artificial intelligence in dementia research. *Cambridge Prisms: Precision*

Medicine, 1-20. <https://doi.org/10.1017/pcm.2022.10>

- Twomey, N., Poyiadzi, R., Mann, C., & Santos-Rodríguez, R. (2019). Ordinal regression as structured classification. *arXiv preprint arXiv:1905.13658*.
- Valsaraj, A., Madala, I., Garg, N., & Baths, V. (2021, November). Alzheimer's dementia detection using acoustic & linguistic features and pre-trained BERT. In *2021 8th International Conference on Soft Computing & Machine Intelligence (ISCMi)*, 171-175, IEEE.
- Van der Woude, A., Farooqi-Shah, Y., Ficek, B., Webster, K. & Tsapkini, K. (November 2017). *Connected language in Primary Progressive Aphasia: Testing the utility of linguistic measures in differentially diagnosing PPA and its variants*. Poster presented at the Academy of Aphasia, Baltimore, MD.
- Vats, N. A., Yadavalli, A., Gurugubelli, K., & Vuppala, A. K. (2021, August). Acoustic features, BERT model and their complementary nature for Alzheimer's dementia detection. In *2021 Thirteenth International Conference on Contemporary Computing (IC3-2021)* (pp. 267-272).
- Vekkot, S., Prakash, N. N. V. S., Reddy, T. S. E., Sripathi, S. R., Lalitha, S., Gupta, D., Zakariah, M., & Alotaibi, Y. A. (2023). Dementia speech dataset creation and analysis in Indic languages – A pilot study. *IEEE Access*, 4. doi:10.1109/ACCESS.2023.3334790
- Vigo, I., Coelho, L., & Reis, S. (2022). Speech-and language-based classification of Alzheimer's disease: A systematic review. *Bioengineering*, 9(1), 27.
- Villatoro-Tello, E., Dubagunta, P., Fritsch, J., Ramírez-de-la Rosa, G., Motlicek, P., & Magimai-Doss, M. (2021). Late fusion of the available lexicon and raw waveform-based acoustic modeling for depression and dementia recognition. In *Interspeech*, 1927-1931.
- Vishniakou, U., Xia, Y., & Yu, C. Technology of neurological disease recognition using gated recurrent unit neural network and internet of things. In V.V. Golenkov (Editor-in-chief), *Open Semantic Technologies for Intelligent Systems*, 241.
- Vishnyakov, V. A., ChuYue, Y., & YiWei, X. (2023). Presentation and processing of data for the diagnostics of neurological diseases. BIG DATA and Advanced Analytics BIG DATA and Advanced Analytics = BIG DATA и анализ высокого уровня : сборник научных статей (2023).

<https://libeldoc.bsuir.by/handle/123456789/52238>

- Vrindha, M. K., Geethu, V., Anurenjan, P. R., Deepak, S., & Sreeni, K. G. (2023, May). A review of Alzheimer's disease detection from spontaneous speech and text. In *2023 International Conference on Control, Communication and Computing (ICCC)*, 1-5, IEEE.
- Vrindha, M. K., Geethu, V., Anurenjan, P. R., Deepak, S., & Sreeni, K. G. (2023,). Alzheimer's disease detection from spontaneous speech and text: A review. *arXiv preprint arXiv:2307.10005v1*
- Wahlforss, A., & Jonasson, A. A. (2020). Early dementia diagnosis from spoken language using a transformer approach. *Alzheimer's & Dementia*, *16*, e043445.
- Walker, J. Q., Kennedy, B. K., & Sabbagh, M. N. (2017). Development, application, and results from a clinical informatics platform that enables a multi-modal treatment protocol for Alzheimer's disease (AD). *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, *13*(7), P158-P159.
- Wang, C., Liu, S., Li, A., & Liu, J. (2023). Text dialogue analysis based ChatGPT for primary screening of mild cognitive impairment. *Journal of Medical Internet Research*.
- Wang, H. L., Tang, R., Ren, R. J., Dammer, E. B., Guo, Q. H., Peng, G. P., ... & Wang, G. (2022). Speech silence character as a diagnostic biomarker of early cognitive decline and its functional mechanism: a multicenter cross-sectional cohort study. *BMC Medicine*, *20*(1), 1-10.
- Wang, N. (2021). *Interpretable and Explainable AI for Mental Health*, Doctoral dissertation, Stevens Institute of Technology.
- Wang, N., Cao, Y., Hao, S., Shao, Z., & Subbalakshmi, K. P. (2021, September). Modular multi-modal attention network for Alzheimer's disease detection using patient audio and language data. In *Proc. Interspeech 2021*, 3835-3839.
- Wang, N., Chen, M., & Subbalakshmi, K. P. (2020). Explainable CNN-attention networks (C-Attention Network) for automated detection of Alzheimer's disease. *PsyArXiv*. *arXiv:2006.14135*.
- Wang, N., & Subbalakshmi, K. P. (2021, September). Modular multi-modal attention network for Alzheimer's disease detection using patient audio and language data. Presentation at INTERSPEECH 2021.
- Wang, T., Deng, J., Geng, M., Ye, Z., Hu, S., Wang, Y., ... & Meng, H. (2022). Conformer based elderly speech recognition system for

- Alzheimer's disease detection. *arXiv preprint arXiv:2206.13232*.
- Wang, T., Hu, S., Deng, J., Jin, Z., Geng, M., Wang, Y., ... & Liu, X. (2023). Hyper-parameter adaptation of donformer ASR systems for elderly and dysarthric speech recognition. *arXiv preprint arXiv:2306.15265*.
- Wang, Y., Deng, J., Wang, T., Zheng, B., Hu, S., Liu, X., & Meng, H. (2023, June). *Exploiting prompt learning with pre-trained language models for Alzheimer's disease detection*. In ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 1-5, IEEE.
- Wang, Y., Wang, T., Ye, Z., Meng, L., Hu, S., Wu, X., ... & Meng, H. (2022). Exploring linguistic feature and model combination for speech recognition based automatic AD detection. *arXiv preprint arXiv:2206.13758*.
- Wang, Z., Ive, J., Moylett, S., Müller, C., Cardinal, R., Velupillai, S., ... & Stewart, R. (2020, November). Distinguishing between Dementia with Lewy bodies (DLB) and Alzheimer's Disease (AD) using mental health records: a Classification Approach. In *Proceedings of the 3rd Clinical Natural Language Processing Workshop* (pp. 168-177).
- Wankerl, S., Nöth, E., & Evert, S. (2017). An N-Gram based approach to the automatic diagnosis of Alzheimer's disease from spoken language. *Proc. Interspeech 2017*, 3162-3166.
- Warnita, T., Inoue, N., & Shinoda, K. (2018). Detecting Alzheimer's disease using gated convolutional neural network from audio data. *arXiv preprint arXiv:1803.11344*.
- Warnita, T., Makiuchi, M. R., Inoue, N., Shinoda, K., Yoshimura, M., Kitazawa, M., ... & Kishimoto, T. (2020). Speech paralinguistic approach for detecting dementia using gated convolutional neural network. *arXiv preprint arXiv:2004.07992*.
- Weiss, J. (2012). *Differential performance across discourse types in MCI and dementia*. Master's thesis, The Ohio State University.
- Weiss, J., & Bourgeois, M. (2012, November). *Development of DementiaBank: Language usage in dementia*. Poster presented at the American Speech-Language-Hearing Association convention, Atlanta, GA.
- Wen, B., Wang, N., Subbalakshmi, K., & Chandramouli, R. (2023). Revealing the roles of part-of-speech taggers in Alzheimer disease detection: Scientific discovery using one-intervention causal explanation. *JMIR Formative Research*, 7(1), e36590.

- Weston, J., Lenain, R., Meepegama, U., & Fristed, E. (2021, July). Learning de-identified representations of prosody from raw audio. In *International Conference on Machine Learning* (pp. 11134-11145). PMLR.
- Williams, J. P., & Ireland, M. E. (2019). *Linguistic cues to dementia in spontaneous speech: A dictionary-based analysis*. Poster presented at Society for Personality and Social Psychology.
- Xu, L., Mueller, K. D., Liss, J., & Berisha, V. (2023, June). Decorrelating language model embeddings for speech-based prediction of cognitive impairment. In *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 1-5.
- Xue, B., Yu, J., Xu, J., Liu, S., Hu, S., Ye, Z., ... & Meng, H. (2021). Bayesian transformer language models for speech recognition. *arXiv preprint arXiv:2102.04754*.
- Xi, B., Li, S., Li, J., Liu, H., Liu, H., & Zhu, H. (2021, June). BatFL: Backdoor detection on gederated learning in e-Health. In *2021 IEEE/ACM 29th International Symposium on Quality of Service (IWQOS)*, 1-10.
- Yan, R. (2022). First saying and second saying in aphasic conversations. *Journal of Interactional Research in Communication Disorders*, 13(2), 212-219.
- Yancheva, M., & Rudzicz, F. (2016). Vector-space topic models for detecting Alzheimer's disease. In *Proceedings of the Annual meeting of the Association for Computational Linguistics (ACL16)*. San Francisco, CA, USA.
- Yancheva, M., Fraser, K. C., & Rudzicz, F. (2015). Using linguistic features longitudinally to predict clinical scores for Alzheimer's disease and related dementias. In *Proceedings of 6th Workshop on Speech and Language Processing for Assistive Technologies*. Dresden Germany.
- Yang, Q., Li, X., Ding, X., Xu, F., & Ling, Z. (2022). Deep learning-based speech analysis for Alzheimer's disease detection: a literature review. *Alzheimer's Research & Therapy*, 14, 186. <https://doi.org/10.1186/s13195-022-01131-3>
- Ye, Z., Hu, S., Li, J., Xie, X., Geng, M., Yu, J., ... & Meng, H. (2021). Development of the CUHK elderly speech recognition system for neurocognitive disorder detection using the DementiaBank corpus. In *ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 6433-6437.

- Ye, Z., & Li, F. (2017, September). Context enhanced word vectors for sentiment analysis. In *Chinese National Conference on Social Media Processing* (pp. 256-267). Springer, Singapore.
- Yeung, A., Iaboni, A., Rochon, E., Lavoie, M., Santiago, C., Yancheva, M., Novikova, J., Xu, M., Robin, J., Kaufman, L., & Mostafa, F. (2021). Correlating natural language processing and automated speech analysis with clinician assessment to quantify speech-language changes in mild cognitive impairment and Alzheimer's disease. *Alzheimer's Research & Therapy*, *13*(1), 1-10. doi:10.1007/s10489-022-04255-z
- Ying, Y., Yang, T., & Zhou, H. (2022). Multimodal fusion for Alzheimer's disease recognition. *Applied Intelligence*.
- Yuan, J., Bian, Y., Cai, X., Huang, J., Ye, Z., & Church, K. (2020, October). *Disfluencies and fine-tuning pre-trained language models for detection of Alzheimer's disease*. In *INTERSPEECH* (pp. 2162-2166).
- Yuan, J., Cai, X., Bian, Y., Ye, Z., & Church, K. (2021). Pauses for detection of Alzheimer's disease. *Frontiers in Computer Science*, *2*:624488. doi:10.3389/fcomp.2020.624488
- Zakipour, S. G. (2022). *Effects of cognitive exercises on speaking characteristics of dementia patients*. Master's thesis, University of Manitoba, Biomedical Engineering.
- Zhang, G., Ma, J., Chan, P., & Ye, Z. (2022). Graph theoretical analysis of semantic fluency in patients with Parkinson's disease. *Behavioural Neurology*, *2022*. doi:10.1155/2022/6935263
- Zhang, J., Wu, J., Qiu, Y., Song, A., Li, W., Li, X., & Liu, Y. (2023). Intelligent speech technologies for transcription, disease diagnosis, and medical equipment interactive control in smart hospitals: A review. *Computers in Biology and Medicine*, *106*:517.
- Zhao, Q., Xu, H., Li, J., Rajput, F. A., & Qiao, L. (2023). The application of artificial intelligence in Alzheimer's research. *Tsinghua Science and Technology*, *29*(1), 13-33.
- Zhu, L., Fraser, K. C., & Rudzicz, F. (2016). Speech recognition in Alzheimer's disease and in its assessment. In *Proceedings of the 17th Annual Meeting of the International Speech Communication Association (Interspeech)* (pp. 1948-1952). <http://doi.org/10.21437/Interspeech.2016-1228>
- Zhu, L., Obyat, A., Liang, X., Batsis, J. A., & Roth, R. M. (2021, September). *WavBERT: Exploiting semantic and non-semantic*

- speech using Wav2vec and BERT for dementia detection. In Proc. Interspeech 2021, 3790-3794.*
- Zhu, Y., & Liang, X. (2020). Exploiting fully convolutional network and visualization techniques on spontaneous speech for dementia detection. *arXiv preprint arXiv:2008.07052*.
- Zhu, Y., Liang, X., Batsis, J. A., & Roth, R. M. (2022). Domain-aware intermediate pretraining for dementia detection with limited data. *Proc. Interspeech, 2183-2187*.
- Zhu, Y., Liang, X., Batsis, J. A., & Roth, R. M. (2021). Exploring deep transfer learning techniques for Alzheimer's dementia detection. *Frontiers in Computer Science, 3:624683*.
- Zhu, Y., Lin, N., Liang, X., Batsis, J. A., Roth, R. M., & MacWhinney, B. (2023). Evaluating picture description speech for dementia detection using image-text alignment. *arXiv preprint arXiv:2308.07933*.
- Zhu, Z., Novikova, J., & Rudzicz, F. (2018). Detecting cognitive impairments by agreeing on interpretations of linguistic features. *arXiv preprint arXiv:1808.06570*.
- Zhu, Z., Novikova, J., & Rudzicz, F. (2018). Isolating effects of age with fair representation learning when assessing dementia. *arXiv preprint arXiv:1807.07217*.
- Zhu, Z., Novikova, J., & Rudzicz, F. (2018). Semi-supervised classification by reaching consensus among modalities. *arXiv preprint arXiv:1805.09366*.
- Zhu, Y., Tran, B., Liang, X., Batsis, J. A., & Roth, R. M. (2022, May). Towards interpretability of speech pause in dementia detection using adversarial learning. In *ICASSP 2022-2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 6462-6466.
- Zimmerer, V. C., Wibrow, M., & Varley, R. A. (2016). Formulaic language in people with probable Alzheimer's disease: a frequency-based approach. *Journal of Alzheimer's Disease, 53(3)*, 1145-1160.
- Zokaeinikoo, M., Kazemian, P., & Mitra, P. (2023). Interpretable hierarchical deep learning model for noninvasive Alzheimer's disease diagnosis. *INFORMS Journal on Data Science*.
- Zolnoori, M., Zolnour, A., & Topaz, M. (2023). ADscreen: A speech processing-based screening system for automatic identification

of patients with Alzheimer's disease and related dementia. *Artificial Intelligence in Medicine*, 102624.