Charalambos (Haris) Themistocleous

Department of Special Needs Education University of Oslo

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Language, Cognition, Aphasia, NLP, ML

CURRENT APPOINTMENT

Professor of Speech, Language, and Communication

2024 - present

2011 - 2014

Department of Special Needs Education Faculty of Educational Sciences University of Oslo, Oslo, Norway

PROFESSIONAL EXPERIENCE

Department of English Studies

University of Cyprus

Nicosia, Cyprus

 Associate Professor of Speech, Language, and Communication 2022 - 2024 Department of Special Needs Education Faculty of Educational Sciences University of Oslo, Oslo, Norway Postdoctoral Researcher of Computational Neurolinguistics Department of Neurology Johns Hopkins University, Baltimore MD, USA 2018 - 2022 Postdoctoral Researcher of Computational Linguistics The Centre for Linguistic Theory and Studies in Probability (CLASP) Department of Philosophy, Linguistics and Theory of Science (FLOV) University of Gothenburg, Sweden 2015 - 2017 Visiting Research Scholar The Seeger Center Princeton University Princeton NJ, USA 2015 Visiting Lecturer

EDUCATION

· PhD in Linguistics

University of Athens

Thesis Title: Prosody and Information Structure in Greek

Grade: Summa cum laude 2007 - 2011

MS in Computational Linguistics

University of Skövde, Sweden 2007 - 2008

MA in Applied Linguistics

University of Athens, Greece

Thesis Title: A multifactorial analysis of discourse turn in conversations

Grade: Summa cum laude 2005 - 2007

BA in Philology (Linguistics)

University of Athens, Athens, Greece

Grade: Summa cum laude & Valedictorian topping the BA Philology program 2000 -

2004

TRAINING

RESEARCH TRAINING

1. MRI - Functional Connectivity - Conn Toolbox:

Martinos Center for Biomedical Imaging. Harvard University

2. MRI - Anatomical Analysis - MRICloud - DTI analysis,

rs - fMRI analysis, ASL analysis.

Johns Hopkins University

3. EEG Analysis - Foundations of EEG:

Theory, Hardware and Application Principles.

Brain Products Academy

PEDAGOGICAL TRAINING

1. University of Oslo

University Pedagogy Course 2023 - 2024

(a) University Pedagogy Course

Development work for university pedagogy 18 - UPED - LEAD 24V 2024

(b) University Pedagogy Course

Research Supervision 18 - UPED - RESS 23V

Universitetspedagogisk basiskompetanse 2023

(c) Teaching and Learning in Higher Education

Introductory module (120) 2023

2.	University of Athens - MA Pedagogy Courses Modern Greek Language Teaching (MA Studies) Teaching Modern Greek as a Foreign Language (MA Studies)	2006 2006
3.	University of Athens - BA Pedagogy Courses General and Special Teaching Pedagogical Psychology Introduction to Developmental Psychology I Group Dynamics - Psychology Introduction to Pedagogy I Introduction to Developmental Psychology II	2004 2004 2003 2003 2002 2001
UNI	ERSITY ENVIRONMENT TRAINING	
1.	Research Ethics Courses:	
	(a) UV9010 – Research Ethics (as a Teacher) University of Oslo	2023 - 2024
	(b) Research Integrity Training H24 University of Oslo	2024
2.	HIPAA Courses:	
	(a) Electronic Information Security and Data Management Training Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2022
	(b) Patient Privacy for Workforce Members Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2022
	(c) Health Insurance Portability and Accountability Act (HIPAA) for Research Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2021
3.	Additional Courses:	
	(a) California Specific Title IX and Harassment Prevention Training Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2021
	(b) Conflict of Interest and Commitment, Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2021
	(c) Preparing for an Active Shooter in the Clinical and Non-clinical Environment Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2021
	(d) Title IX and Harassment Prevention Training Johns Hopkins University, School of Medicine, Baltimore MD, USA	2018 - 2021
	(e) Toward an Inclusive Culture: Acting against Disrespect & Bias Johns Hopkins University, School of Medicine	2022
	(f) Compliance Basics Johns Hopkins University, School of Medicine	2022
	(g) Fire, Hazard Communication and Construction Safety, Johns Hopkins University, School of Medicine	2022
	(h) Preparing for an Active Assailant in the Clinical & Non-Clinical Environment Johns Hopkins University, School of Medicine	2022

	Johns Hopkins University, School of Medicine	
	(j) What Can You Do to Prevent the Spread of Infectious Diseases Johns HopkinsUniversity, Health System	s? 2022
GR.	ANTS	
1.	Role: Postdoctoral Research Fellow Department of Neurology, Johns Hopkins University	2018 - 2022
	(a) Research Project Title: Effects of transcranial direct current stimulation (tDCS) in oral and written production in primary progressive aphasia (PPA)	
	(b) NIH/NIDCD Grant R01 DC014475 (PI: Tsapkini)	
2.	Role: Member of the research group and Co-proposer Center for Multilingualism in Society across the Lifespan University of Oslo	2019–2023
	 (a) Title: Morphosyntactic Production in Stroke-induced Agrammatic Aphasia: A Cross-linguistic Machine Learning Approach (b) 48-month Project 287745 - FRIPRO (FRIHUMSAM) Research Council of Norway (Principal Investigator: Dr. Valantis Fyndanis) 	
3.	Role: Postdoctoral Research Fellow Department of Neurology, Johns Hopkins University	2018 - Present
	(a) Research Project Title: Transcranial direct current stimulation (tDCS) in typical and atypical Alzheimer's Disease	
	(b) NIH/NIA Grant R01 AG068881 (PI: Tsapkini)	
4.	Role: Researcher Centre for Linguistic Theory and Studies in Probability (CLASP) University of Gothenburg	2015 - 2018
	(a) Research project: Linguistic and extra-linguistic parameters for early detection of cognitive impairment	
	(b) Grant from the ``Riksbankens Jubileumsfond" The Swedish Foundation for Humanities and Social Sciences Grant agreement no: NHS 14 - 1761:1, 2016 - 2019 (Principal Investigator: Dr. Dimitrios Kokkinakis)	
5.	Role: Principal Investigator The Seeger Center at Princeton University	2015
	(a) Title: Prosodic Variation and Prosodic Change: Evidence from Greek	

(Grant Awarded by Princeton University)

6.	Researcher Department of English Studies, University of Cyprus	2014
	(a) Project Title: Statistics & Methods (Project Supervisor: Dr. Kleanthes Grohmann)	
7.	Researcher Cyprus Ministry of Education and Culture	2014
	 (a) Project Title: Recording, preserving and reviving Cypriot Maronite Arabic (Principal Investigator: Dr. Marilena Karyolemou) 	
8.	Researcher Department of Classics, University of Cyprus	2009 - 2011
	 (a) Project Title: Language and Style in the Speeches of Thucydides (Project Supervisor: Dr. Antonis Tsakmakis) Funded by Anastasios G. Leventis Foundation 	
9.	Researcher Academy of Athens	2006 - 2007
	(a) Project Title: Utilitarian Dictionary of Modern Greek (Principal Investigator: Dr. Christophoros Charalampakis) Academy of Athens https://christikolexiko.academyofathens.gr	
10.	Researcher Grant from ``Kapodistrias 2007" and ``Kapodistrias 2008" University of Athens	2008
11.	Erasmus Program - Computational Linguistics University of Skövde	2007
Ю	NORS AND AWARDS	
1.	Sigma Xi, The Scientific Research Honor Society (Full Regular Member, Nominated)	2021
2.	Visiting Research Scholar The Seeger Center at Princeton University, Princeton University	2015
3.	Summa cum laude, PhD in Linguistics National and Kapodistrian University of Athens	2007 - 2011
4.	Summa cum laude, MA in Applied Linguistics National and Kapodistrian University of Athens	2005 - 2007
5.	Graduated Summa Cum Laude and Valedictorian from the School of Philosophy, topping the BA Philology program National and Kapodistrian University of Athens	2000 - 2004

б.	PhD research, Alexander S. Onassis Foundation	2007 - 2011
7.	Scholarship of Excellence (equivalent to NIH F31) PhD research, Cyprus State Scholarships Foundation	2007 - 2011
8.	Scholarship of Excellence (equivalent to NIH F31) MA studies, Alexander S. Onassis Foundation	2005 - 2007
9.	Scholarship of Excellence (equivalent to NIH F31) MA studies, Cyprus State Scholarships Foundation	2005 - 2007
10.	Scholarship of Excellence (equivalent to NIH F31) Undergraduate studies, Cyprus State Scholarships Foundation	2000 - 2004

PUBLICATIONS

BOOKS AND EDITED VOLUMES

- 1. **Themistocleous Charalambos** (2015). Experimental Design and Statistics in Linguistics. Using R (In Greek). Athens: Ion. ISBN: 978 960 508 187 4. http://www.iwn.gr/product.asp?catid=17589
- Fragaki Georgia, Georgakopoulos Athanasios, Themistocleous Charalambos (Eds) (2012). *Current Trends in Greek Linguistics*. Newcastle upon Tyne: Cambridge Scholars Publishing. ISBN - 10: 1443840254, ISBN - 13: 978 - 1443840255.

JOURNAL ARTICLES

- Themistocleous Charalambos (2025). Linguistic and Emotional Prosody: A Systematic Review and ALE Meta-Analysis. *Neuroscience & Biobehavioral Reviews*, 106210. https://doi.org/https://doi.org/10.1016/j.neubiorev.2025.106210.
- 2. **Themistocleous Charalambos** (2024). Open Brain Al and language assessment. *Frontiers in Human Neuroscience*, 18. https://doi.org/10.3389/fnhum.2024.1421435
- 3. Kim, Hana., Hillis, Argye E., & **Themistocleous Charalambos** (2024). Machine Learning Classification of Patients with Amnestic Mild Cognitive Impairment and Non-Amnestic Mild Cognitive Impairment from Written Picture Description Tasks. *Brain Sciences*, 14(7).https://mdpi-res.com/d_attachment/brainsci/brainsci-14-00652/article_deploy/brainsci-14-00652.pdf?version=1719476290
- 4. **Themistocleous Charalambos**, Andreou Maria, Peristeri Eleni (2024). Autism detection in children: Integrating Machine Learning and Natural Language Processing in Narrative Analysis. *Behavioral Sciences*, 14(6), 459-475; https://doi.org/10.3390/bs14060459
- Stark, Brielle C., Bryant, Lucy, Themistocleous Charalambos, den Ouden, Dirk Bart, & Roberts, Angela C. (2023). Best practice guidelines for reporting spoken discourse in aphasia and neurogenic communication disorders. *Aphasiology*, 1 - 24. https://doi.org/10.1080/02687038.2022.2039372

- Themistocleous Charalambos, Fyndanis, Valantis, & Tsapkini, Kyrana. (2022). Sonorant spectra and coarticulation distinguish speakers with different dialects. Speech Communication. https://doi.org/10.1016/j.specom.2022.06.002. (Pre-print: Themistocleous Charalambos, Fyndanis, Valantis, & Tsapkini, Kyrana (2021). Sonorant spectra and coarticulation distinguish speakers with different dialects. arXiv:2110.03756. https://arxiv.org/abs/2110.03756).
- 7. Afthinos, Afthinos, **Themistocleous Charalambos**, Herrmann, Olivia, Fan, Hongli, Lu, Hanzhang, & Tsapkini, Kyrana (2022). The Contribution of Working Memory Areas to Verbal Learning and Recall in Primary Progressive Aphasia. *Frontiers in Neurology*, 13. https://doi.org/10.3389/fneur.2022.698200
- 8. **Themistocleous Charalambos**, Webster Kimberly, Tsapkini, Kyrana (2021). Effects of tDCS on Sound Duration in Patients with Apraxia of Speech in Primary Progressive Aphasia. *Brain Sciences*, 11(3). https://doi.org/10.3390/brainsci11030335. (A preprint version can be found in Preprints 2021, 2021010005 https://doi.org/10.20944/preprints202101.0005.v1).
- Themistocleous Charalambos, Bronte Ficek, Kimberly Webster, Dirk Bart den Ouden, Argye E. Hillis, Kyrana Tsapkini (2021). Automatic subtyping of individuals with Primary Progressive Aphasia. *Journal of Alzheimer's Disease*, https://doi.org/10.3233/JAD-201101.
- Themistocleous Charalambos, Kyriaci Neophytou, Brenda Rapp, Tsapkini Kyrana (2020).
 Automatic metrics of spelling errors on words and non words. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2020_JSLHR-20-00177.
- 11. **Themistocleous Charalambos**, Webster Kimberly, Afthinos Alexandros, & Tsapkini Kyrana (2020). Part of Speech Production in Patients With Primary Progressive Aphasia: An Analysis Based on Natural Language Processing. *American Journal of Speech Language Pathology*, 1 15. https://doi.org/10.1044/2020_AJSLP-19-00114.
- 12. **Themistocleous Charalambos**, Eckeström, Marie, Kokkinanis Dimitrios (2020). Voice quality and speech fluency distinguish individuals with Mild Cognitive Impairment from Healthy Controls *PLOS one* 15(7), e0236009. https://doi.org/10.1371/journal.pone.0236009.
- 13. Stark Brielle C., Dutta Manaswita, Murray Laura, Bryant Lucy, Fromm Davida; MacWhinney Brian, Ramage Amy, Simmons Mackie Nina, Roberts Angela, Fergadiotis Gerasimos, den Ouden Dirk, Brock Kris, McKinney Bock Katy, Jin Paek Eun, Harmon Tyson, Themistocleous Charalambos, Yoo Hyunsoo, On Yoon Si, Sharma Saryu, Aveni Katharine, Gutierrez Stephanie, Doppelbauer Lea, Dawn Bunker Lisa (2020). Standardizing assessment of spoken discourse in aphasia: A working group with deliverables. American Journal of Speech Language Pathology. 1–12 https://doi.org/10.1044/2020_AJSLP-19-00093 (a preprint version exists in PsyArXiv. October 3. doi:10.31234/osf.io/e6r3x.)
- 14. Georgiou George and **Themistocleous Charalambos** (2020). Vowel learning in diglossic settings: Evidence from Arabic Greek learners. *International Journal of Bilingualism*. https://journals.sagepub.com/doi/10.1177/1367006920945396.
- 15. **Themistocleous Charalambos** (2019). Dialect classification from a single sonorant sound using Deep Neural Networks. *Frontiers in Communication*. https://doi.org/10.3389/fcomm.2019.00064.
- 16. Fyndanis Valantis and **Themistocleous Charalambos** (2019). Are there prototypical associations between time frames and aspectual values? Evidence from Greek aphasia and healthy ageing, *Clinical Linguistics and Phonetics*, DOI: 10.1080/02699206.2018. 1480657.

- Themistocleous Charalambos, Eckerström Marie, and Dimitrios Kokkinakis (2018). Identification of Mild Cognitive Impairment from Speech in Swedish using Deep Sequential Neural Networks. *Frontiers in Neurology* 9, 975. URL: https://www.frontiersin.org/article/10.3389/fneur.2018.00975.
- Themistocleous Charalambos (2017). Effects of two linguistically proximal varieties on the spectral and coarticulatory properties of fricatives: Evidence from Athenian Greek and Cypriot Greek. Frontiers in Psychology. DOI: 10.3389/fpsyg.2017.01945
- 19. **Themistocleous Charalambos** (2017). Dialect classification using vowel acoustic parameters. *Speech Communication* 92, 13 22. DOI: 10.1016/j.specom.2017.05.003.
- 20. Grohmann Kleanthes, Papadopoulou Elena and **Themistocleous Charalambos** (2017). Acquiring Clitic Placement in Bilectal Settings: Interactions between Social Factors. *Frontiers in Communication* 2:5. doi: 10.3389/fcomm.2017.00005.
- 21. **Themistocleous Charalambos** (2017). The Nature of Phonetic Gradience across a Dialect Continuum: Evidence from Modern Greek Vowels. *Phonetica* 74, 157 172. PMID: 28268213, DOI: 10.1159/000450554.
- 22. **Themistocleous Charalambos** (2016). Seeking an anchorage: Evidence from the tonal alignment of the Cypriot Greek prenuclear pitch accent. *Language and Speech*, 59(4):433 461, DOI: 10.1177/0023830915614602.
- 23. **Themistocleous Charalambos** (2016). The bursts of stops can convey dialectal information. *Journal of the Acoustical Society of America EL* 140(4), EL334 EL340. http://dx.doi.org/10.1121/1.4964818.
- 24. **Themistocleous Charalambos** (2014). Edge Tone Effects and Prosodic Domain Effects on Final Lengthening. *Linguistic Variation* 14(1). 129–160. DOI: 10.1075/lv.14.1. 06the.

BOOK CHAPTERS

- Themistocleous Charalambos (2023). Discourse and Conversation Impairments in Patients with Dementia. In: Kong, A.PH. (eds) Spoken Discourse Impairments in the Neurogenic Populations. Springer, Cham. https://doi.org/10.1007/978-3-031-45190-4_3
- 2. **Themistocleous Charalambos** (2016). Sextus Empiricus Adversus Grammaticos and the debate Ideal Language vs. Language Variation. *Stasinos* 7, 145 152.
- 3. Armostis, Spyros, Kyriaci Christodoulou, Marianna, Katsoyannou, and **Charalambos Themistocleous** (2014). *Addressing writing system issues in dialectal lexicography: the case of Cypriot Greek*. In Granadillo, Tania (Eds). Dialogue on Dialect Standardization (pp. 23 38). Newcastle upon Tyne: Cambridge Scholars Publishing.
- Themistocleous Charalambos (2014). Modern Greek Prosody. Speech melody in communication (Prosodia tis Neas Ellinikis. I axiopoiisi tis melodias tis fonis stin epikoinonia). Stasinos 6. 319 - 344.
- 5. Tsakmakis, Antonis and **Themistocleous Charalambos** (2013). *Textual Structure and Modality in Thucydides' Military Exhortations*. In A. Tsakmakis and M. Tamiolaki (Eds). Thucydides Between History and Literature (pp. 391 408). Berlin, Walter de Gruyter.

- Melissaropoulou, Dimitra, Themistocleous Charalambos, Tsiplakou, Stavroula, and Tsolakidis, Symeon (2013). The Present Perfect in Cypriot Greek revisited. In Peter Auer, J. C. Reina & G. Kaufmann (Eds.), Language Variation European Perspectives IV: Selected papers from the Sixth International Conference on Language Variation in Europe (ICLaVE 6), Freiburg, June 2011 (pp. 159 172). Amsterdam: John Benjamins.
- 7. **Themistocleous Charalambos** (2012). *Meaning and Form in the Tonal Representation*. In Fragaki, Georgia, Georgakopoulos, Athanasios, **Themistocleous, Charalambos** (Eds). Current Trends in Greek Linguistics (pp. 271 289). Cambridge: Cambridge Scholars Publishing.
- 8. **Themistocleous Charalambos** (2012). *Cypriot Greek Nuclear Pitch Accents (Ta pirinika tonika ipsi tis kypriakis ellinikis)*. In Z. Gavriilidou, A. Efthymiou, E. Thomadaki & P. Kambakis Vougiouklis (eds), 2012, Selected papers of the 10th ICGL, pp. 796 805. Komotini/Greece: Democritus University of Thrace.

CONFERENCE PAPERS

- Hana Kim and Charalambos Themistocleous (2025). Identifying Key Handwriting Features for Early Detection and Monitoring of Dementia. the International Conference of the Korean Dementia Association 2025 & 19th international Congress of the Asian Society Against Dementia (IC-KDA & ASAD 2025). Seoul, Korea
- 2. Hana Kim and **Charalambos Themistocleous** (2024). Automated classification of mild cognitive impairment from writing: A natural language processing approach. Clinical Aphasiology Conference 2024 Marriott Waikoloa, the Big Island of Hawai'i, Waikoloa Beach, HI, USA.
- 3. Katelyn Surrao, Hana Kim, Jessica Gallegos, Kyriaki Neophytou, **Charalambos Themistocleous**, Argye Hillis, Kyrana Tsapkini, Donna C. Tippett. Written Picture Descriptions Distinguish Variants of Primary Progressive Aphasia. The 2024 ASHA Convention, December 5–7, 2024 Seattle, Washington.
- 4. **Themistocleous Charalambos** (2024). Open Brain AI. Automatic Language Assessment. The 2024 Joint RaPID Workshop International Conference on Computational Linguistics, Language Resources and Evaluation. Torino, Italy 20-25 May, 2024.
- 5. **Themistocleous Charalambos** (2024). Open Brain AI: Computational Infrastructure for Researchers, Clinicians, and Educators *HUMINFRA* (*HiC 2024*) *Workshop Proceedings* (https://spraakbanken.gu.se/hic 2024), Gothenburg, Sweden., 21 23 October, 2023, Reading, England.
- Themistocleous Charalambos (2023). Open Brain AI. Academy of Aphasia 61st Annual Meeting, 21 - 23 October, 2023, Reading, England. Sundstrom Simon and Charalambos Themistocleous. Phonology Scores in Swedish - speaking children with Developmental Language Disorder. ExLing Athens 2023, Athens Greece.
- 7. **Themistocleous Charalambos** (2023). Large Language Models in Aphasia. *ExLing Athens 2023*, Athens Greece.
- 8. Simon Sundström and **Themistocleous Charalambos** (2023). Phonological errors in Swedish speaking children with Developmental Language Disorders. *ExLing Athens 2023*, Athens Greece.

- 9. **Themistocleous Charalambos**, Ficek, Bronte, Webster, Kimberly, & Tsapkini, Kyrana (2022). *tDCS reduces phonological errors in patients with primary progressive aphasia 60th Annual Academy of Aphasia Meeting*, 23 25 October, 2022, Philadelphia.
- Charalambos Themistocleous, Alexandros Afthinos, Olivia Hermann, Fan Hongli, Hanzhang Lu and Kyrana Tsapkini (2021). Brain Perfusion and Neurocognitive Tasks in Patients with Primary Progressive Aphasia. Academy of Aphasia 59th Annual Meeting 24 - 26 October, 2021, Online.
- 11. Olivia Herrmann, Alexandros Afthinos, **Charalambos Themistocleous**, Hongli Fan, Hanzhang Lu and Kyrana Tsapkini (2021). Brain areas that mediate sentence comprehension in primary progressive aphasia: Evidence from perfusion imaging. *Academy of Aphasia 59th Annual Meeting*, 24 26 October, 2021, Online.
- 12. Lucy Bryant, Angela Roberts, **Charalambos Themistocleous**, Dirk den Ouden and Brielle Stark (2021). Best practices for reporting of discourse analysis. *Academy of Aphasia 59th Annual Meeting* 24 26 October, 2021, Online.
- 13. **Themistocleous Charalambos**, Eckerström Marie, and Kokkinakis Dimitris (2020). Automated speech analysis enables MCI diagnosis. *Proceedings of the 11th Tutorial & Research Workshop on Experimental Linguistics 2020 (ExLing2020)*, 12 14 October 2020, Athens, Greece.
- 14. **Themistocleous Charalambos**, Webster Kimberly T., Ficek Bronte, Tsapkini Kyrana (2020). Effects of tDCS on apraxia of speech in non fluent variant of Primary Progressive Aphasia. Philadelphia (Presented On line due to COVID19 pandemic).
- 15. Neophytou Kyriaki, Themistocleous Charalambos, Brenda Rapp, Tsapkini Kyrana (2020). A tool for automatic scoring of spelling. Academy of Aphasia 2020. Philadelphia (Presented On - line due to COVID19 pandemic).
- 16. **Themistocleous Charalambos**, Eckerström Marie, Lundholm Fors Kristina, and Kokkinakis Dimitris (2020). Improving the Diagnosis of Mild Cognitive Impairment in elderly individuals using a multifactorial automatic analysis of voice quality and prosody. 30th Alzheimer Europe Conference ``Building bridges". 20 22 October 2020.
- 17. **Themistocleous Charalambos**, Eckerström Marie, and Kokkinakis Dimitris (2020). Automatic analysis of voice quality and prosody in patients with Mild Cognitive Impairment. The Society for the Neurobiology of Language Symbosium (SNL 2020). October 21 24, 2020.
- Themistocleous Charalambos, Webster Kimberly T., Ficek Bronte, Tsapkini Kyrana (2019). Morphosyntactic measures of PPA variants using computational grammars. 49th Clinical Aphasiology Conference 2019 (CAC 2019) Whitefish, Montana, Tuesday, May 28, 2019 - Saturday, June 1, 2019.
- Themistocleous Charalambos and Dimitrios Kokkinakis (2019). Speech Analysis and Mild Cognitive Impairment Detection. *Proceedings of the 10th Tutorial & Research Work-shop on Experimental Linguistics (ExLing2019)*, September 25 - 27, 2019 Lisbon, Portugal, 113 - 116.
- Kokkinakis, Dimitrios, Lundholm Fors, Kristina, Fraser, Katie, Eckerström, Marie, Horn, Greta, and Themistocleous Charalambos (2019). A multifaceted corpus for the study of cognitive decline in a swedish population. In CLARe4: Corpora for Language and Aging Research, 27 February - 1 March 2019, Helsinki, Finland.

- 21. **Themistocleous Charalambos**, Ficek Bronte, Theresa Webster Kimberly, Wendt Haley, Elizabeth Hillis Argye, Den Ouden Dirk Bart, and Tsapkini Kyrana (2018). Acoustic markers of PPA variants using machine learning. *Academy of Aphasia 56th Annual Meeting*, October 21 23, 2018 Montreal, Canada. *Frontiers in Neuroscience*. doi: 10.3389/conf.fnhum.2018.228.00092.
- 22. Fyndanis Valantis and **Themistocleous Charalambos** (2018). Morphosyntactic production in agrammatic aphasia: A cross linguistic machine learning approach. *Academy of Aphasia 56th Annual Meeting*, October 21 23, 2018 Montreal, Canada. *Frontiers in Neuroscience*. doi: 10.3389/conf.fnhum.2018.228.00075.
- 23. Neophytou Kyriaki, Themistocleous Charalambos, Wiley Robert, Tsapkini Kyrana and Rapp Brenta (2018). Understanding and classifying the different variants of Primary Progressive Aphasia based on spelling performance. Frontiers Hum. Neurosci. Conference Abstract: Academy of Aphasia 56th Annual Meeting. doi: 10.3389/conf.fnhum.2018.228. 00001
- 24. **Themistocleous Charalambos**, Ficek Bronte, Webster Kimberly, Wendt Haley, Hillis Argye E., den Ouden Dirk Bart, and Tsapkini Kyrana (2018). A classification study of the variants of Primary Progressive Aphasia using Machine Learning. *Clinical Aphasiology Conference, CAC 2018*, Austin, Texas USA.
- 25. **Themistocleous Charalambos**, Kokkinakis Dimitrios, Marie Eckerström, Kathleen Fraser, and Kristina Lundholm Fors (2018). Effects of Cognitive Impairment on vowel duration. *Proceedings of the 9th Tutorial & Research Workshop on Experimental Linguistics* (ExLing2018) 28 30 August 2018 Paris, France, 113 116.
- 26. **Themistocleous Charalambos** and Kokkinakis Dimitrios (2018). THEMIS SV: Automatic classification of language disorders from speech signals. *ESOC 2018: European Stroke Organisation Conference, Gothenburg.*
- den Ouden Dirk B., Hutchinson Angelica, Tsapkini Kyrana, and Themistocleous Charalambos (2018). Comparison of Automated Methods for Vowel Segmentation and Extraction of Acoustic Variables. Clinical Aphasiology Conference, CAC 2018, Austin, Texas USA.
- Fraser Kathleen C., Lundholm Fors Kristina, Eckerström Marie, Themistocleous Charalambos, and Kokkinakis Dimitrios (2018). Improving the Sensitivity and Specificity of MCI Screening with Linguistic Information. Language Resources and Evaluation Conference, (LREC). May 2018, Miyazaki (Japan).
- 29. Lundholm Fors Kristina, Fraser Kathleen C., **Themistocleous Charalambos**, and Kokkinakis Dimitrios (2018). Prosodic Features As Potential Markers of Linguistic and Cognitive Deterioration in Mild Cognitive Impairment. The Alzheimer's Association International Conference 2018. Chicago, USA. Alzheimer's & Dementia, 14 7: P1195 P1196. ISSN 1552 5260 https://doi.org/10.1016/j.jalz.2018.06.1658.
- 30. Angelopoulou Georgia, Swathi Kiran, Kasselimis Dimitrios, Varkanitsa Maria, Erin Meier, Yue Pan, Tsolakopoulos Dimitrios, **Themistocleous Charalambos**, Vassilopoulou Sofia, Korompoki Eleni, Tountopoulou Argyro, Papageorgiou Georgios, Goutsos Dionysis, Evdokimidis Ioannis, and Potagas Constantin (2018). Pause patterns and speech errors in stroke patients with aphasia: cross linguistic evidence from narrative speech. *Clinical Aphasiology Conference, CAC 2018*, Austin, Texas USA.

- 31. Fyndanis Valantis, Cameron Sarah, Caplan David, Davril Christina, Hagen Kaldhol Nina, Knoph Monica, Gram Simonsen Hanne, Theimann Ane, **Themistocleous Charalambos**, and Thomas Bak. (2018). The impact of successive bi /multilingualism on the cognitive abilities of healthy older speakers: Evidence from Norwegian academics. *10th Annual Meeting of the Society for the Neurobiology of Language*. Toronto Kanada.
- 32. Angelopoulou Georgia, Kiran Swathi, Kasselimis Dimitrios, Varkanitsa Maria, Meier Erin L., Pan Yue, Tsolakopoulos Dimitrios, **Themistocleous Charalambos**, Vassilopoulou Sofia, Korompoki Eleni, Tountopoulou Argyro, Papageorgiou Georgios, Roussos Petros, Goutsos Dionysis, Evdokimidis Ioannis, and Potagas Constantin (2018). Unsuccessful word retrieval in stroke patients with aphasia: cross linguistic evidence from connected speech. European Stroke Conference ESC, 2018. Athens, Greece.
- 33. Kokkinakis Dimitrios, Kristina Lundholm Fors, Eckerström Marie, and **Themistocleous Charalambos**. (2018). Kan textforskning bidra till tidigare och säkrare demensdiagnostik? Forum för textforskning (FoT) 13. Lund, Sweden (in Swedish)
- 34. Fyndanis Valantis, **Themistocleous Charalambos**, and Christidou Paraskevi (2017). Time reference and aspect in agrammatic aphasia: Evidence from Greek. Academy of Aphasia. 55th Annual Meeting November 5 7th, 2017 Baltimore, Maryland, USA. *Frontiers in Human Neuroscience*. doi:10.3389/conf.fnhum.2017.223.00080.
- 35. Bernardy, Jean Philippe, and **Themistocleous Charalambos** (2017). Modelling prosodic structure using Artificial Neural Networks. *Experimental Linguistics 2017*. 17 20. https://arxiv.org/abs/1706.03952.
- 36. Fyndanis, Valantis, **Themistocleous Charalambos**, and Christidou Paraskevi (2017). Time reference and aspect in agrammatic aphasia: Evidence from Greek. Academy of Aphasia. 55th Annual Meeting November 5 7th, 2017 Baltimore, Maryland, USA. (Conference Presentation).
- 37. Georgia Angelopoulou, Kasselimis Dimitrios, Varkanitsa Maria, Fotiadis Panagiotis, **Themistocleous Charalambos**, Tsolakopoulos Dimitrios, Grillou Christally, Christidi Foteini, Karavasilis Efstratios, Argiropoulos George, Velonakis George, Karanassou Sofia, Nikitopoulou Zoi, Roussos Petros, Goutsos Dionysios, Kelekis Nikolaos, Evdokimidis Ioannis, and Potagas Constantin (2017). Effects of cortical thickness on pause duration in neurotypical adults' speech: Evidence for the role of the left middle temporal gyrus in lexical retrieval. Society for the Neurobiology of Language 2017. November 8 10 in Baltimore, Maryland. (Conference Presentation).
- 38. Anastasi Eva, Logotheti Ageliki, Panayiotou Stavri, Serafim Marilena, and **Themistocleous Charalambos** (2017). *A sociophonetic study of Standard Modern Greek and Cypriot Greek Stop Consonants*. 12th International Conference on Greek Linguistics (ICGL12), 16 19 September 2015. Freie Universität Berlin, Germany.
- 39. **Themistocleous Charalambos**, Angelandria Savva, and Andrie Aristodemou (2016). Effects of stress on fricatives: Evidence from Standard Modern Greek, 1026 1029. *Interspeech 2016*. http://dx.doi.org/10.21437/Interspeech.2016 1057.
- 40. **Themistocleous Charlambos** & Angeliki Logotheti (2016). Standard Modern Greek and Cypriot Greek vowels: a sociophonetic study. *Modern Greek Dialects and Linguistics Theory* 6 (1), 178 184. http://ejupunescochair.lis.upatras.gr/index.php/mgdlt/article/view/2684.
- 41. **Themistocleous Charalambos** and Müller, Daniela (2015). The intonation of Albanian polar questions and statements: Prefocal Peaks. *6th International Conference of Experimental Linguistics*. *ExLing 2015*. *26 27 June 2015*. Athens, Greece.

- 42. Aristodemou, Andrie, Savva, Angelandria, **Themistocleous Charalambos** (2015). The Acoustics of Cypriot Greek Fricatives. *6th International Conference of Experimental Linguistics. ExLing 2015. 26 27 June 2015.* Athens, Greece.
- 43. **Themistocleous Charalambos** and Papadopoulou Lena (2014). *Prenuclear pitch accents alignment: evidence from typical vs. atypical pre school children.* 5th International Conference on Language Disorders in Greek (LDG5) Limassol, Cyprus, on the 30th and the 31st of May 2014 (Conference Presentation).
- 44. **Themistocleous Charalambos** and Angeliki Logotheti (2014). *Standard Modern Greek and Cypriot Greek vowels: A sociophonetic study.* 6th International Conference on Modern Greek Dialects and Linguistic Theory (MGDLT6), September 25 28, 2014, Conference and Cultural Centre of the University of Patras (Conference Presentation).
- 45. **Themistocleous Charalambos** and Tsiplakou, Stavroula (2012). High Rising Terminals in Cypriot Greek: Charting `Urban' Intonation. 5th International Conference on Modern Greek Ghent. *Proceedings of the international on Modern Greek Dialects and Linguistic Theory*, 5 (1):445 462. http://pwpl.lis.upatras.gr/index.php/mgdlt/article/view/2609/2846
- 46. **Themistocleous Charalambos** (2012). *You sound Nicosian: Speech melody as an urban identity marker.* Sociolinguistics Symposium 19, Freie Universität (Berlin, August 21 24, 2012) (Conference Presentation).
- 47. Themistocleous Charalambos, Marianna Katsoyannou, Spyros Armosti, and Kyriaci Christodoulou (2012). Cypriot Greek Lexicography: A Reverse Dictionary of Cypriot Greek. 15th European Association for Lexicography (EURALEX) Conference, Oslo, Norway, 7 11 August 2012. http://euralex.org/publications/cypriot - greek - lexicography - a - reverse - dictionary - of - cypriot - greek/
- 48. **Themistocleous Charalambos**, Marianna Katsoyannou, Spyros Armosti, and Kyriaci Christodoulou (2012). *Cypriot Greek Lexicography: An online lexical database*. 15th European Association for Lexicography (EURALEX) Conference, Oslo, Norway, 7 11 August 2012. http://euralex.org/publications/cypriot greek lexicography an online lexical database/
- 49. Christodoulou, Kyriaki, Marianna Katsoyannou, Spyros Armosti, and **Themistocleous Charalambos** 2012. *Orthographic trends for a non standardised dialect: the representation of the CiV sequence in Cypriot Greek.* 7th Congress of Dialectology and Geolinguistics (Vienna, Austria, 23 28 July 2012).
- 50. **Themistocleous Charalambos** (2011b). *Computational Greek Phonology: IPAGreek.* The 10th International Conference of Greek Linguistics. Komotini, Greece (poster presentation).
- 51. **Themistocleous Charalambos** (2011c). *The alignment of the Cypriot Greek prenuclear accent.* 20th International Symposium on Theoretical and Applied Linguistics. Thessaloniki, Greece (Conference Presentation).
- 52. Tsiplakou Stavroula, Arvaniti Amalia, Baltazani Mary, Adamou Evi, Gryllia Stella, Terkourafi Marina, **Themistocleous Charalambos**, Vergis Nikos and Spyros Armosti. 2011. Intonational variation in polar and wh-questions across seven varieties of Greek. 6th International Conference on Language Variation in Europe, Freiburg, Germany.

- 53. Armosti Spyros, Katsoyannou Marianna, Christodoulou Kyriaci, and **Themistocleous Charalambos** (2011). *Greek Cypriots writing Cypriot Greek: tendencies in the written representation of postalveolar consonants (In Greek).* The 10th International Conference of Greek Linguistics. Komotini, Greece.
- 54. Tsakmakis, Antonis and **Themistocleous Charalambos** (2011). Keimeniki organosi kai tropikotita stis stratiotikes parakeleuseis tou Thucydidi (`Textual structure and modality in Thucydides 'military exhortations'). *Proceedings of the 4th International Symposium on Thucydides.* Athens Greece.
- 55. **Themistocleous Charalambos** and Kyriacou, Stelios. (2010). Focus prominence and tonal alignment in Athenian and Cypriot Greek. *ExLing 2010*, 25 27 August, Athens, Greece, Athens.
- 56. **Themistocleous Charalambos** and Kyriacou Stelios (2010). Effects of tonal environment on the alignment of boundary tone in Cypriot Greek (epidraseis tou tonikou perivallontos stin efthigrammisi tou tonou oriou stin Kypriaki Elliniki). 5th Athens Postgraduate Conference of the Department of Philology of the National and Kapodistrian University of Athens, 29 31 May 2009. Athens: University of Athens.
- 57. Efstathopoulou, Niki and **Themistocleous Charalambos** (2010). A comparative study between Greek and English voiceless stop VOTs produced by Cypriot Greeks. *5th Athens Postgraduate Conference of the Department of Philology of the National and Kapodistrian University of Athens*, *29 31 May 2009*. Athens: University of Athens.
- 58. **Themistocleous Charalambos** (2008). Focus Effects on Syllable Duration in Cypriot Greek. *ExLing 2008*. Athens, Greece. 241 244.
- 59. Botinis, Antonis Bakakou Aikaterini and **Themistocleous Charalambos** (2007a). A multifactorial Analysis of Greek Discourse. *16th International Congress of Phonetic Sciences* (ICPhs 2007), 1341 1344.
- 60. Botinis Antonis, Bakakou Aikaterini and **Themistocleous Charalambos** (2007b). Linguistic Factors and Discourse Turn in Greek (Glossologikoi paragontes kai Synomiliaki Seira sta Ellinika). *Proceedings of the 8th International Conference of Greek Linguistics*. loannina, Greece.
- 61. Gkini Anna, **Themistocleous Charalambos**, Iosifelli Ioanna, Xefteri Maria, Christopoulou Amaryllis, Nikolaenkova Olga, and Papageorgiou Giorgos (2005). *Lexikogrammatikes ptyches tis glossas ton neon: meleti vasismeni se ilektronika somata keimenon* (Lexical and grammatical aspects of youth language: a corpus based study). Praktika Diethnous Synedriou ``I glossa se enan kosmo pou allazei'', Didaskaleio Xenon Glosson tou Panepistimiou Athinon, Filosofiki Scholi, 9 11/12/2005.
- 62. Botinis Antonis, Kostopoulos Yiannis, and Nikolaenkova Olga, **Themistocleous Charalambos** (2005). Syntactic and tonal correlates of focus in Greek and Russian. *Proceedings Fonetik 2005, the XVI IIth Swedish Phonetics Conference*. Goteborg, Sweden.
- 63. Botinis Antonis, Alexandri Christina, and **Themistocleous Charalambos** (2005). Production of focus in Greek and Russian. *7th International Conference of Greek Linguistics*. York, UK (oral presentation).
- 64. Botinis, Antonis, **Themistocleous Charalambos** and Nikolaenkova, Olga (2005). Perception of focus in Greek and Russian. *7th International Conference of Greek Linguistics*. York, UK (oral presentation).

65. Botinis, Antonis, Christofi, Marios, **Themistocleous Charalambos** and Kyprianou, Angeliki (2004). Duration correlates of stop consonants in Cypriot Greek. *Proceedings of Fonetik 2004, the XVIIth Swedish Phonetics Conference*. Stockholm, Sweden.

CONFERENCE PROCEEDINGS

- Kokkinakis Dimitrios, Fraser Kathleen C., Themistocleous Charalambos, Fors Kristina Lundholm, Tsanas Athanasios, Ohman Fredrik (2024). Proceedings of the LREC 2024 workshop on:Resources and ProcessIng of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments (RaPID-5 2024). 21 May, 2024 Torino, Italia.
- Kokkinakis Dimitrios, Themistocleous Charalambos, Lundholm Fors Kristina, Tsanas Athanasios, Fraser C. Kathleen (2022) P. Proceedings of the RaPID Workshop - Resources and ProcessIng of linguistic, para - linguistic and extra - linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments - within the 13th Language Resources and Evaluation Conference, Marseille, France. European Language Resources Association. In Aclanthology. https://aclanthology.org/events/lrec-2022/ #2022rapid-1.
- 3. Kokkinakis, Dimitris, Lundholm Fors Kristina, **Themistocleous Charalambos**, Antonsson, Marie, & Eckerström, Marie. (2020). *Proceedings of LREC 2020 Language Resources and Evaluation Conference 11 16 May 2020: 3rd RaPID Workshop, Resources and Processing of Linguistic, Para linguistic and Extra linguistic Data from People with Various Forms of Cognitive / Psychiatric / Developmental Impairments. Marséille, France.*
- (Two Volumes): Demopoulos Charalambos, Kontaksis Kassiani, Kostala Paraskevi, Mylona Katerina, Nastos Vasilis, Savvidou Vivi, and Themistocleous Charalambos (2012). Proceedings of the 6th Athens Postgraduate Conference of the Faculty of Philology National and Kapodistrian University of Athens 13 15 May 2011 (Volume A and Volume B). Athens: University of Athens. ISSN: 2241-3030 VOLUME 1: ISBN: 978 960 466 109 1, VOLUME 2: ISBN: 978 960 466 109 2.
- Vrynioti Eleni, Georgakopoulos Athanasios, Themistocleous, Charalambos, Kontonikolis Christophoros, Kousoulini Vasiliki, Papadopoulou Angeliki, Stamatelopoulos Nikitas, Fragaki Georgia, and Fragouli Nandia (Eds) (2010). Proceedings of the 5th Athens Postgraduate Conference of the Faculty of Philology National and Kapodistrian University of Athens 29 31 May 2009. Athens: UOA. ISBN 978 960 466 056 8.

BOOK REVIEWS

1. **Themistocleous Charalambos** (2015). Book Review of Caspers, Johanna, Chen, Yiya, Heeren, Willemijn, Pacilly, Jos, Schiller, Niels, and van Santen, Ellen. (2014). *Above and beyond the segments: experimental linguistics and phonetics.* Amsterdam; Philadelphia: John Benjamins Publishing Company. *LinguistList 26.5107, 2015*.

THESES

- 1. **Themistocleous Charalambos** (2011). Prosodia kai plirophoriaki domi stin Ellinici (Prosody and Information Structure in Greek). *PhD Thesis*. University of Athens Greece.
- 2. **Themistocleous Charalambos** (2008). Lengthening Effects of Prosodic Constituents in Athenian Greek and Cypriot Greek. *MA Thesis*. University of Skövde.

3. **Themistocleous Charalambos** (2007). A multifactorial analysis of discourse turn in conversations (In Greek). *MA Thesis*. University of Athens.

RECENT TALKS

- 2025 Invited Speaker at the Communication Sciences and Disorders Arnold School of Public Health. Talk: Advancing Motor Speech Disorders Research and Clinical Practice with an Al-Driven Computational Approach. (Monday 2 2025)
- 2024 Invited Speaker at the Center for Brain Recovery, Boston University. Talk: "Al in Clinical Therapy and Assessment: A Paradigm Shift in Speech-Language Pathology" (October 28th)
- 3. 2024 Invited Speaker at the Afasidagene 2024 (Afasidagene er en praksisrettet konferanse om afasi. Benytt sjansen til å høre om praksiserfaringer og forskning. Statped. Talk: "A new paradigm-shift in Speech and Language Pathology: Informing clinical therapy and assessment using AI" (October 24th).
- 2024 Invited Keynote Speaker at 43rd national conference of the Flemish Association for Speech Therapists (VVL). Talk: "New developments in Speech and Language Assessments using AI". Ghent, Belgium, March 15 2024 (audience around 400 Speech Therapists).
- 2024 Invited Presentation at the 43rd national conference of the Flemish Association for Speech Therapists (VVL). Talk: "Automated Analysis of Primary Progressive Aphasia". March 15 2024.
- 6. 2024 Eleni Peristeri, Charalambos Themistocleous, and Maria Andreou. Natural language processing in children's narrations. Thessaloniki, University of Thessaloniki, Greece.
- 7. 2023 Talk at the Department: Communication Sciences and Disorders Arnold School of Public Health, University of South Carolina, Dirk den Ouden (December 13, 2023)
- 8. 2023 Invited Talk *Open Brain Al: Computational Language Research*. e seminars. Linguistics Faculty, National and Kapodistrian University of Athens, Athens, Greece (November 2023).
- 9. 2023 *Open Brain AI: Assessment and Diagnosis*. ComPros Event: Brain and Language. University of Oslo, November 16, 2023.
- 10. 2023 *Open Brain AI: Educational Applications*. IDEA Innovasjon og digitalisering i utdanning Group. University of Oslo, November 8, 2023.
- 11. 2023 Invited Talk at the University of Athens. Diagnosis and Prognosis of patients with dementia. Online Assessment Tools. December 2023.
- 12. 2022 Invited Lecture *Novel tools and methods from computational linguistics: studying the relationship between brain and language.* IDEALAB winter school. Newcastle University, January 16th, 2022.
- 13. Invited Talk, Current evidence for the effectiveness of therapy for speech and language disorders" Consider both remediation and compensation approaches in this part of the lecture. Institute of Special Need Education (ISP). University of Olso.

- 14. Invited Talk, *Profession related voice disorders: assessment and therapy.* Institute of Special Need Education (ISP). University of Olso.
- 15. 2021 Invited Talk, Natural Language *Artificial Intelligence and Natural Language Processing in Clinical Research*. 3rd Workshop of the European Coordination of Language Resources (ELRC). Reshaping multilingual Europe: Language centric artificial intelligence. December 1, 2021 (on line, Nicosia, Cyprus).
- 16. 2020 Invited Lecture, Automatic analysis of speech communication: How Natural Language Processing and Machine Learning can contribute to clinical research. The C STAR lecture series, University of South Carolina, (broadcasted internationally).
- 17. Seminar Talk, tDCS effects on apraxia of speech in individuals with the non fluent variant of Primary Progressive Aphasia. Johns Hopkins Cognitive Science Professor Brenda Rapp.
- 18. Invited Talk, *Speech in individuals with Primary Progressive Aphasia*. Cyprus Acquisition Team Natalia Pavlou University of Cyprus. Nicosia, Cyprus.
- 19. 2019 Speech profile of individuals with Primary Progressive Aphasia. Baltimore Brain Series (selection committee members: National Institute on Drug Abuse (NIDA) Andrew Wright, Sarah Aronson, and Kauê Kosta; Johns Hopkins University Kurt Fraser, Aparna Shah, and Alexei Bygrave; University of Maryland, Baltimore: UMB Home Lace Riggs and Megan Fox.)
- 20. 2018 Clinical Markers from Speech Signals and Natural Language Processing: A preliminary study from picture description data. (Stroke Cognitive Outcomes and REcovery Lab, Dr. Argye E. Hillis). Johns Hopkins University, April 17, 2018

DIGITAL TOOLS DEVELOPED - SOFTWARE APPLICATIONS

- 1. Open Brain AI https://openbrainai.com
 - provides researchers, clinicians, and educators the tools to transcribe and analyze speech automatically
 - · segments acoustic productions into vowels and consonants
 - analyzes linguistically (phonology, morphology, syntax, and semantics) written texts and speech recordings productions in user friendly manner using a web interface
- 2. **Web Dictionary of Cypriot Greek** http://lexcy.library.ucy.ac.cy/Lexicon.aspx (currently inactive).
 - The 'Syndychies' Website, this is a Dictionary Website that includes IPA transcription for Cypriot Greek (an application of IPA converter algorithm) and text to speech feature (the latest version will be online at the 15th of November) Several web working activities in academia: (e.g. MedEastern, Webmaster for Cyprus Linguistics Society (Cyling)) Depreciated (see www.charalambosthemistocleous.com and published articles for details on published projects) https://github.com/themistocleous/CG_Dictionary.
- NLP Editor. NLP Editor is a simple text editor that facilitates the linguistic analysis of texts (Mac, Linux, and Windows). It converts of text to the International Phonetic Alphabet. *Phonetics IPA* was an older version for Windows systems. https://github.com/ themistocleous/nlp_editor

- 4. Clinical Tool Word Repetition App
 https://github.com/themistocleous/word-repetition-app
- 5. Clinical Tool Word Repetition Span App. https://github.com/themistocleous/WordRepetitionSpan.
- Keyboard Layouts. Dialectal Greek Keyboard Layout; Dialectal Greek Polytonic Keyboard Layout; International Phonetic Alphabet Keyboard Layout. https://github.com/themistocleous/ Keyboard_Layouts
- 7. **Spelling Scoring Application**. This has been currently implimented in Open Brain AI. (A grafical user interface is available for local use upon request). https://github.com/themistocleous/spelling_assesment_app
- 8. **Phonology Scoring Application**. This has been currently implimented in Open Brain AI. (A grafical user interface is available for local use upon request). https://github.com/themistocleous/phonology_scoring_app
- 9. **Semantics Scoring Application**. This has been currently implimented in Open Brain AI. (A grafical user interface is available for local use upon request).
- 10. **Praat Scripts -** Various Praat Scripts for acoustic analysis. https://github.com/themistocleous/praat_scripts/tree/master/code

ACADEMIC SERVICE

ASSOCIATE EDITOR

1. Journal of Alzheimer's Disease (JAD) https://www.j-alz.com/members/4666 2021 - 2022

GUEST EDITOR

1. Brain Sciences Special Issue:

Artificial Intelligence Methods for Assessing Speech, Language, and Communication Functioning https://www.mdpi.com/journal/brainsci/special issues/X0H4227470

2023-2024

REVIEW EDITOR

1. Review Editor for Frontiers in Neurology on the Editorial Board of Stroke 2022 - 2025

2. Frontiers in Language Sciences - Psycholinguistics 2022 - 2025

PROFESSIONAL MEMBERSHIPS

1. Academy of Aphasia (Elected Regular Member) 2018 - present

2. Society for the Neurobiology of Language (Member) 2018 - present

Advisory Board Member International Society of Experimental Linguistics (ExLing)	
(Full-time member since 2011)	2006 - present
4. Linguistic Society of America (LSA) (Member)	2019 - 2020
5. International Phonetic Association (IPA) (Member)	2014 - 2016
6. International Speech Communication Association (ISCA) (Member)	2014 - 2017
7. International Exchange Alumnus, US Government	2016 - present
8. Cyprus Linguistic Society (CyLing) (Member of the board)	2011 - 2015
9. Cyprus (Language) Acquisition Team (CAT)	2011 - present

HIRING COMMITTEES

· Senior Lecturer in Special Education within the field of Audiopedagogy, Hearing, Language and Communication at ISP. Scientific representatives: Professor Monica Melby-Lervåg, Associate Professor Charalampos Themistokleous Student representative: Sarah Johanne Boye Killengreen sjkillen@student.uv.uio.no Head of Department: Ona Bø Wie

REVIEWER: RESEARCH GRANT APPLICATIONS

1.	The Swiss National Science Foundation (SNSF) - 2025	2025
2.	Expert Opinion for the J. William Fulbright Commission;	

Czech Fulbright - Masaryk scholars for the academic year 2022/2023 www.fulbright.cz - Czech Republic.

2021

3. Journal of Biolinguistics Task Team

2014 - present

ACADEMIC JOURNALS REVIEWER

2025

- Pediatric Research
- Journal of Alzheimer's Disease
- Aphasiology
- Scientific Reports
- Clinical Linguistics & Phonetics

2024

- American Journal of Speech-Language Pathology
- Alzheimer's and Dementia: Diagnosis, Assessment, and Disease Monitoring
- Journal of Alzheimer's Disease
- Aphasiology
- Frontiers in Neurology
- Frontiers in Human Neuroscience
- Frontiers in Public Health Aging and Public Health

- Journal of Computer Assisted Learning

2023

- PLOS One
- Clinical Linguistics and Phonetics
- Brain Sciences
- PLOS Digital Health
- JAMA Neurology
- Aphasiology 2 papers
- Cerebral Cortex
- Human Arenas

2022

- Applied Psycholinguistics
- Clinical Linguistics & Phonetics
- Cortex
- International Journal of Language & Communication Disorders
- PLOS One
- PLOS Digital Health

2021

- Brain Sciences
- Frontiers in Digital Health Connected Health
- Alzheimer's and Dementia: Diagnosis, Assessment, and Disease Monitoring
- Journal of Alzheimer's Disease (JAD)

2020

- Aphasiology
- Journal of Alzheimer's Disease (JAD) 2 Manuscripts Reviewed
- Journal of the International Neuropsychological Society
- PLOS One
- Natural Language Engineering
- Frontiers in Psychology

2019

- PLOS One 2 Manuscripts Reviewed
- Computer Speech and Language
- Human Brain Mapping
- Brain and Language
- Frontiers in Communication 2 Manuscripts Reviewed
- Clinical Linguistics & Phonetics
- Journal of Biolinguistics 2 Manuscripts Reviewed

2018

- Clinical Linguistics & Phonetics
- Frontiers in Neurology
- Speech Communication

2017

- Frontiers in Psychology
- Journal of Logic and Computation
- Journal of Biolinguistics

2016

- Phonetica
- Journal of the International Phonetic Association (JIPA)
- Lingua
- Journal of Biolinguistics

2015

- Journal of the Acoustical Society of America
- Journal of Biolinguistics

REVIEWER CONFERENCES

- 2024 The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation LREC-COLING 2024- 5th RaPID: Resources and ProcessIng of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments.
- 2. 2022 LREC 14th *Conference on Language Resources and Evaluation* Resources and ProcessIng of linguistic, para linguistic and extra linguistic Data from people with various forms of cognitive / psychiatric / developmental impairments (2 papers).
- 3. 2018 2021 Experimental Linguistics Workshop (2018 2021)
- 4. 2018 Special Session Neurodegeneration and Language (Neural) (2019) (4 papers)
- 5. 2016 Conference on Logic and Machine Learning in Natural Language (LaML).

LANGUAGE CURRICULA AND LANGUAGE POLICY

1. 2014 Reviewer National Language Curricula Ministry of Education and Culture, Cyprus

EVENT ORGANIZATION

- International Summer School: Cradle of Basic Ideas in Science Role: Member of the Organization Board and Providing a Seminar (2023). International Summer School URL Link.
- 2. Organization and participation in the "European Day of Languages" event Role: as a member of the Cyprus Linguistics Association (2014).

- 3. 2024 The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation LREC-COLING 2024. Title: 5th RaPID: Resources and ProcessIng of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments. Authors: Dimitrios Kokkinakis, Charalambos Themistocleous, Kathleen C. Fraser, Athanasios Tsanas, Kristina Lundholm Fors and Fredrik Öhman
- 4. 2022 RaPID Workshop Resources and Processing of linguistic, para linguistic and extra linguistic Data from people with various forms of cognitive/psychiatric/developmental impairments within the 13th Language Resources and Evaluation Conference, Marseille, France. European Language Resources Association. with Kokkinakis Dimitrios, Themistocleous Charalambos K., Lundholm Fors Kristina, Tsanas Athanasios, Fraser C. Kathleen (2022).
- Proceedings of LREC 2020 Language Resources and Evaluation Conference 11 16
 May 2020: 3rd RaPID Workshop, Resources and Processing of Linguistic, Para linguistic and Extra linguistic Data from People with Various Forms of Cognitive / Psychiatric
 / Developmental Impairments. Marséille, France., with Kokkinakis, Dimitris, Lundholm
 Fors Kristina, Themistocleous Charalambos, Antonsson, Marie, & Eckerström, Marie.
 (2020).
- 6. 2011 2023 ``Experimental Linguistics (ExLing)" Member of the organizing committee of ExLing 2011 (Paris, France), ExLing 2012 (Athens, Greece), ExLing 2015 (Athens, Greece), and ExLing 2018 (Paris, France)
- 7. 2019 Organizing Committee of the special session on language disorders Neurodegeneration and Language (NEURAL 2019) which took place in the context of Experimental Linguistics 2019 (ExLing 2019) in Lisbon, Portugal, 27 September 2019, under the auspices of Centro de Linguística da Universidade de Lisboa"
- 8. 2019 International Advisory Committee of the ``Experimental Linguistics 2019 (Exling 2019)"
- 2018 Organizing Committee of the ``resources and processing of linguistic, para linguistic and extra linguistic data from people with various forms of cognitive/psychiatric impairments (RaPID 2)", Tuesday, 8th of May 2018, Miyazaki, Japan). Workshop as part of the Language Resources and Evaluation Conference (LREC), 7 12 May 2018, Miyazaki, Japan
- 10. 2017 Organizing committee of the ``Conference on Logic and Machine Learning in Natural Language (LaML)." Conference dates: June 12 14, 2017. University of Gothenburg
- 11. 2009 ``5th Athens Postgraduate Conference of the Department of Philology, National and Kapodistrian University of Athens, 29 31 May 2009"
- 12. 2011 ``6th Athens Postgraduate Conference of the Department of Philology, National and Kapodistrian University of Athens, 13 15 May 2011"

PHD/MA SUPERVISION AND TEACHING

PHD STUDENT SUPERVISION

PhD Thesis Supervision. Georgios Georgiou, PhD dissertation co - supervised with Dr.
 Mary Koutselini at the University of Cyprus, titled ``Perception and Production of Greek
 vowels by Arabic Speakers of Greek as a second language"
 2014 - 2018)
 https://www.researchgate.net/publication/321360145_Perception_and_Production_of_Greek_
 Vowels_by_Egyptian_Arabic_Learners_of_Greek_as_a_Second_Language

MA STUDENT SUPERVISION

1. MA Thesis Supervision. University of Olso

- 2023 current
- MA Thesis Co Supervision. Natassia Aaseng Department of Special Needs Education, University of Oslo
- 3. **MA Thesis Supervision**. Jesica Wang, MA thesis at the University of Gothenburg, research topic ``Determining Linguistic Predictors for the classification of Mild Cognitive Impairment and Alzheimer's Disease using Machine Learning: Evidence from speech and texts" (2020). https://gupea.ub.gu.se/handle/2077/66261 2020
- 4. **MA Thesis Supervision**. Liina Tumma, MA thesis at the University of Gothenburg, research topic ``Extracting linguistic and emotional information from speech" 2018

TEACHING

1. University of Oslo

2024

- Course organizer and provided Seminars within the Research Ethics course (UV9010)
 - "Research Ethics for PhD Candidates"
- Seminars for the SPED4200 Fordypning i logopedi course

2023

- Course organizer and provided Seminars within the Research Ethics course (UV9010)
 - "Research Ethics for PhD Candidates"
- Seminars for the SPED4092 Master's thesis in special pedagogy
- Seminars for SNE4390 Master's Thesis (MOS) course
- Seminars for the SPED4200 Fordypning i logopedi course
- Seminars for the Velkommen til SPED4400
 Fordypning i spesifikke lærevansker course
- Seminars for the international master's programme Research in Special Needs Education (RSNE) at the ISP.

2022

 Seminars for the international master's programme Research in Special Needs Education (RSNE) at the ISP.

2. University of Gothenburg

2017

- Statistical Methods for Natural Language Processing (NLP), Master's Program in Language Technology; teaching and course organizing
- Introduction to Formal Linguistics, Master's Program in language technology.
 Co-teaching with Stergios Chatzikyriakides

2016

Introduction to Formal Linguistics, Master's Program in language technology.
 Co-teaching with Stergios Chatzikyriakides

3. University of Cyprus

2014

- Principles of Linguistic Analysis (MA Program in Linguistics)
- Theoretical Phonology
- Suprasegmental Phonology
- Sociolinguistics

2013

- Sociolinguistics
- Phonetics and Phonology (3rd & 4th year elective)
- Research Design and Statistics for Linguists (3rd & 4th year elective)

2012

- Undergraduate Course: Phonetics and Phonology: Advanced Level (3rd & 4th year elective)
- Speech Melody and Conversation (3rd & 4th year elective)
- Information Structure and Prosody (3rd & 4th year elective)

2011

- Tutorials: Introduction to Greek Language

4. Open University of Cyprus

2013

 Linguistics and Literature, Postgraduate module in Linguistics and Literature (Phonetics, Phonology, Morphology, Syntax, Semantics, and Pragmatics)

5. University of Athens

• Tutorials: Phonetics, Phonology, and Statistics (Phonetics Lab) 2007 - 2011

CURRICULUM DEVELOPMENT AND EDUCATIONAL MATERIAL CREATION

Course Leader and Instructor (Seminars)

2023 - Present

- Research Ethics for PhD Candidates (UV9010)
 - Developed and managed course syllabus, incorporating up-to-date research ethics literature.
 - Coordinated with faculty to deliver cohesive seminar experiences for PhD candidates.

- Ensured quality and relevance of course content to enhance PhD student learning.
- Curriculum Development Collaborator, Logopedi Team.

2023 - Present

- Contributed to the revision of the study program for four new courses (SPED 4201-4203, SPED3012), specifically focusing on:
 - * Designing course plans
 - * Assessments
 - * Lecture topics
 - * Learning outcomes
- Developed syllabi for the following elective courses at the MA Program in Speech and Language Pathology at the Department of Special Needs Education.
 - SPED4040. Introduksjon til lingvistikk analyse (Introduction to Linguistic Analysis)
 - (NA). Beregnigsmetoder og Kunstig intelligens i spesialundervisning Computational and Artificial Intelligence Methods in Special Needs Education.
- · Course Leader and Instructor University of Cyprus University of Gothenburg

2017

- * Statistical Methods for Natural Language Processing (NLP), Master's Program in Language Technology; teaching and course organizing
- * Course Leader and Instructor with Stergios Chatzikyriakides Introduction to Formal Linguistics, Master's Program in language technology.

2016

- * Course Leader and Instructor with Stergios Chatzikyriakides Introduction to Formal Linguistics, Master's Program in language technology.
- Course Leader and Instructor University of Cyprus. Developed PowerPoint Presentations, Course Notes, Exams, and other materials required for courses at the University of Cyprus and the University of Gothenburg. Authored a book and various teaching materials, including an Introduction to R, Introduction to Python, and more, to introduce students to Experimental Design and Statistics in Linguistics using R. Developed syllabi for the MA Program in Linguistics, including:

2014

- * Principles of Linguistic Analysis (MA Program in Linguistics)
- * Theoretical Phonology
- * Suprasegmental Phonology
- * Sociolinguistics

2013

- * Sociolinguistics
- * Phonetics and Phonology (3rd & 4th year elective)
- * Research Design and Statistics for Linguists (3rd & 4th year elective)

2012

- * Undergraduate Course: Phonetics and Phonology: Advanced Level (3rd & 4th year elective)
- * Speech Melody and Conversation (3rd & 4th year elective)
- * Information Structure and Prosody (3rd & 4th year elective)

TEXTBOOKS AND TEACHING MANUSCRIPTS

Also, I have authored a book to introduce students to Experimental Design and Statistics in Linguistics, using R (see my book publications for more information) and the following teaching materials:

Textbook

Themistocleous Charalambos (2015). *Experimental Design and Statistics in Linguistics. Using R* (In Greek). Athens: Ion. ISBN:978-960-508-187-4. This book is an introduction to experimental methodology and statistics using R and aims:

- to present the basic principles of experimental methodology and experimental design.
- to introduce statistics and their application to language problems.
- to introduce R, a programming language with specialized functions for statistical analysis.

The experimental methodology concerns the systematic and organized examination of a research object. The research begins with identifying a problem, defining the more specific research questions, and formulating experimental hypotheses. In this book, we examine how statistical analysis works, the theoretical principles that govern it, and how it relates to experimental methodology. The book aims twofold to teach how statistical tests are performed and present the reasoning that regulates them. Therefore, an attempt was made to make this book as pedagogical and easy to use as possible. Examples based on linguistics and language research have been used for this purpose.

Teaching Manuscripts

I have developed PowerPoint Presentations, Course Notes, Exams, and other materials required for courses.

- Themistocleous Charalambos (2016). Introduction to R. Unpublished manuscript.
 Gothenburg
- Themistocleous Charalambos (2016). Introduction to Python. Unpublished manuscript. Gothenburg.
- Themistocleous Charalambos (2011). Introduction to Phonetics and Phonology [in Greek]. Nicosia: Open University of Cyprus. (pp. 100)

GRADING TASKS

University of Oslo

SPED1100: Introduksjon til spesialpedagogikk October 6, 2024

SPED4010: Vitenskapsteori, forskningsmetode og statistikk

January 27, 2023

SNE4390: Master Thesis November 22, 2022

SNE4390: Master Thesis January 6, 2023

SNE3120: Towards Inclusive Education January 12, 2024

SNE4120: Towards Inclusive Education January 11, 2024

SNE4120: Towards Inclusive Education February 9, 2024

RSNE4001: Inclusive Education and the Nordic Model September 26, 2024

RSNE3001: Inclusive Education and the Nordic Model September 26, 2024

University of Cyprus

Grading for all courses that I was teaching.

TEACHING MATERIALS

As a course organizer at the university of Cyprus and at the University of Gothenburg for the course on Statistical Methods for Natural Language Processing (NLP), I have developed PowerPoint Presentations, Course Notes, Exams, and other materials required for courses, which are available in an online repo. This Appendix contains links to materials that I have developed for use in classroom. These materials were not attached in this document because of size restrictions and accessibility. It includes materials such as:

- Syllabi
- · Power Point Presentations
- · Teaching and Materials used in classroom.
- Assessments / Exams

This page includes the links to the Google Drive online repository. Each course has its own folder, and each folder contains the materials, usually organized based on the week. Additional folders inside the course may contain the Syllabus, Exams, Midterms, and others. Many materials were removed from these because of their size, they could not sync.

For the Materials Created while I was at the University of Oslo, these are in CANVAS.

SEMINARS

 Anatomy and physiology The brain and the nervous system 	August, 2024
2. Introduction to the structure and function of the brain I	August, 2024
3. Speech difficulties II - Motor Speech Disorders	August, 2024
4. Dementia	August, 2024
5. Lecture: Artificial Intelligence and special needs education	August, 2024
 Brain: Anatomy and Physiology at the Department of Special Needs Ed sity of Oslo. 2023 	lucation. Univer- August 5,

- 7. Anatomy of the voice and dissorders of voice at the Department of Special Needs Education. University of Oslo.

 August 22, 2023
- 8. Al and aphasia: assessment and diagnosis. For the seminar on Aphasia and AAC at the Department of Special Needs Education, UiO June 8, 2023

- 9. Seminar at ISP Research Meeting: *Diagnosis, Prognosis, and Treatment Efficacy Assessment in Aphasia: Novel Methods and Techniques*April 24,
 2023
- Assessing Speech, Language, and Communication Functioning in Individuals with Aphasia using AI. Forum for Clinical Linguistics and Language Acquisition. Department of Linguistic and Scandinavian Studies at University of Oslo.
 April 20, 2023
- Henri Pesonen, SNE4200 course; title Measuring cognition and language: Computational Language Assessment.
 February 14, 2023
- 12. *Machine Learning in Special Needs Education*. International Master. Department of Special Needs Education. University of Oslo.

 December 8, 2022
- Dementia Risk Factors Symptoms Assessment. Part B. International Master. Department of Special Needs Education. University of Oslo.
 December 1, 2022
- Dementia Risk Factors Symptoms Assessment. Part A. International Master. Department of Special Needs Education. University of Oslo.

 2022
- 15. Invited Seminar Automating Assessment of Speech and Language in Individuals with Aphasia. ComPros Autumn Seminar (Organizer Simon Sundstrom). University of Oslo. **November 28, 2022**
- 16. Developing supporting groups and opportunities for all: Connecting Healthcare and Education. International Master. Department of Special Needs Education. University of Oslo. **November 10, 2022**

INSTITUTIONAL RESPONSIBILITIES

COMMITTEE WORK AND ADMINISTRATIVE ROLES

- Leadership role. Leading the 'Internationalization Group, Department of Special Needs Education, University of Oslo'
- 2. **Leadership role**. Leadership with Simon Sundström of the research group "Communicative Processes (ComPros) Research Group". 2023-2024
- Membership role. IDEA Innovation and Digitalization in Education: A resource centre with UV assisting in innovative teaching, pedagogically focused digital solutions, and research based educational innovation.
 2023 2024
- 4. **Membership role**. Workshop Participation: Discussing the role of AI at the IDEA Workshop Bruk av KI i undervisning: Studentoppgaver og arbeidsformer (14 February 2024). **2024**
- 5. **Membership role**. Internationalization and Networking Internationalization Group University of Oslo Erasmus mobility and networking (2022). **2022**
- 6. **Representative Role:** Postdoctoral Representative, CLASP **2017**

ACADEMIC SERVICE AND COMMUNITY ENGAGEMENT

- Contributed as a co-organizer to the "RaPID Workshop" within the LREC-COLING 2024: The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation in Torino, Italy.
- Co-organized the "ComPros Seminar on Brain and Language" at the Department of Special Needs Education, University of Oslo, November 2023. The seminar featured Dr. Maria Varkanitsa and Dr. Eleni Barbieri as invited speakers, fostering interdisciplinary dialogue on neuro-linguistic research.
- 3. Co-organized the seminar on "Aphasia and Augmentative and Alternative Communication (AAC)" at the Department of Special Needs Education, University of Oslo, June 2023. Collaborated with Kristine Stadskleiv and Melanie Kirmess to host Dr. Rajinder Koul, facilitating discussions on innovative therapeutic approaches. 2023
- 4. Co-organized the "RaPID Workshop" within the 13th Language Resources and Evaluation Conference in Marseille, France, 2022. The workshop focused on linguistic, paralinguistic, and extra-linguistic data processing from individuals with various cognitive impairments, enhancing the field's understanding of language processing challenges. 2022
- Curriculum Review and Policy Development: Reviewed National Language Curricula for the Ministry of Education and Culture, Cyprus, contributing to national educational standards and policies.

 2014
- Participated in the organization of the ExLing Conference series, contributing to events in Paris, France (2011, 2018), Athens, Greece (2012, 2015), and Lisbon, Portugal (2019). These international gatherings brought together experts in experimental linguistics to share research findings and discuss methodological advancements.
 2011 (several)
- Engaged in the "NEURAL 2019" special session on language disorders, part of the ExLing 2019 conference in Lisbon, Portugal. The session focused on the intersection of neurodegeneration and language, providing a platform for presenting recent research and fostering collaborations among specialists in the field.
 2019
- 8. Community Engagement and Public Outreach. Talk to the general public: "How do shibboleths sound?" during the "Open House Day" at the Department of Philosophy, Linguistics and Theory of Science (FLOV), University of Gothenburg (2017). Event Link.
- 9. Community Engagement and Public Outreach. Book Presentation and Panel Discussion "The Linguistic Landscape of Cyprus" by Dr. Andreas Papapavlou **2012**.
- Participated in the organization of the 6th Athens Postgraduate Conference of the Faculty of Philology National and Kapodistrian University of Athens, 13 - 15 May 2011.

 2011
- 11. Participated in the organization of the 5th Athens Postgraduate Conference of the Faculty of Philology National and Kapodistrian University of Athens, 29 31 May 2009.

LANGUAGES

English, Greek, Norwegian Classic Greek, Latin

Updated on June 19, 2025