
CURRICULUM VITAE

DR. TABEA THIES

* 05th April 1993, Essen

📍 Dept. of Neurology
University Hospital Cologne

☎ +49 (0)221 478 98578

✉ tabea.thies@uk-koeln.de
ORCID 0000-0001-9149-3143

EDUCATION & DEGREES

2018-2022	DOCTOR OF PHILOSOPHY 'Effects of levodopa and deep brain stimulation on tongue body kinematics in Parkinson's disease' (summa cum laude) Phonetics, University of Cologne, Germany
2016-2018	MASTER OF ARTS 'Dynamische Modellierung prosodischer Prominenz bei Parkinson Patienten' Linguistics, University of Cologne, Germany
2012-2016	BACHELOR OF ARTS 'Eine akustisch-artikulatorische Analyse der Sprechmotorik bei Essentiellen Tremor Patienten mit Tiefer Hirnstimulation' Linguistics, Phonetics & Education, University of Cologne, Germany

PROFESSIONAL EXPERIENCE

since 2023	POSTDOCTORAL RESEARCHER Dept. of Neurology, University Hospital Cologne, Germany
2022	VISITING RESEARCH SCHOLAR Dept. of Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN
2018-2022	DOCTORAL RESEARCHER Dept. of Neurology, University Hospital Cologne, Germany
since 2016	MEMBER OF RESEARCH TEAM Brain Modulation and Speech Motor Control
2016-2018	GRADUATE RESEARCH ASSISTANT IfL Phonetics, University of Cologne, Germany
2014-2016	RESEARCH ASSISTANT IfL Phonetics, University of Cologne, Germany

ACADEMIC SERVICE

JOURNAL REVIEWS

BMC Neurology, Journal of Neural Transmission, Movement Disorders, Frontiers in Aging Neuroscience, Clinical Linguistics & Phonetics

CONFERENCE (PROCEEDINGS) REVIEWS

Laboratory Phonology (LabPhon 2018), Speech Prosody 2022, Interspeech 2023

GUEST EDITOR

Hermes, A.*, Mefferd, A.*, Thies, T.* (2021). Special Issue "Aging- and Disease-related Changes in Speech Production". Languages. (* all equal)

CO-SUPERVISION

BACHELOR THESIS

Annika Mohr (2020): "Einfluss der akinetisch-rigiden Symptomatik auf die Ausprägung und den Schweregrad der Dysarthrie beim idiopathischen Parkinson-Syndrom", BA Speech Therapy, University of Cologne

Janine Schreen (since 2023), BA Speech therapy, University of Cologne

MASTER THESIS

Elisa Herbig (since 2023), MA Linguistics, University of Cologne

MEDICAL DOCTOR

Nuria Geerts (since 2021), Faculty of Medicine and University Hospital Cologne, University of Cologne

CONFERENCE ORGANISATION

07/2022	WISSENSCHAFT TRIFFT GESELLSCHAFT Annual workshop of the a.r.t.e.s. Graduate School for the Humanities, University of Cologne
06/2022	NEUROSPEECH Interdisciplinary symposium , University of Cologne and University Hospital Cologne
07/2018	RESPIRATORY MEASURES IN SPEECH Workshop with Dr. Susanne Fuchs, University of Cologne
07/2017	DYNAMIC MODELLING 3 rd workshop of workshop series, University of Cologne

MEMBERSHIPS & ENGAGEMENT

since 2023	SPEECH IMPAIRMENT IN MOVEMENT DISORDERS STUDY GROUP
since 2023	DEUTSCHE GESELLSCHAFT FÜR PARKINSON UND BEWEGUNGSSTÖRUNGEN (DPG)
since 2019	INTERNATIONAL PARKINSON AND MOVEMENT DISORDER SOCIETY (MDS)
since 2018	ASSOCIATION FOR LABORATORY PHONOLOGY (ALP)
since 2016	COLOGNE CENTER OF LANGUAGES (CCLS)

TEACHING

2019	LECTURE „PHONETICS AND PHONOLOGY II“
2016 – 2018	SEMINAR “PHONETICS AND PHONOLOGY I” TUTORIAL “PHONETICS AND PHONOLOGY II”

OUTREACH

since 02/2023	LAB TWITTER ACCOUNT @Speedy_Lab
since 12/2021	HOMEPAGE MAINTENANCE Brain Modulation and Speech Motor Control
2016 – 2018	WORKSHOP CHILDREN’S UNIVERSITY “OUR VOICE”

AWARDS & SCHOLARSHIPS

08/2023	GERMAN ACADEMIC EXCHANGE SERVICE (DAAD) Travel Grant: „20th International Congress of the Phonetic Sciences (ICPhS)“ (930 €)
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10/2022 – 12/2022	THIEMANN FOUNDATION Travel Grant: Research visit at Vanderbilt University Medical Center in Nashville, Tennessee (8.500 €)
08/2022	COLOGNE CENTER OF LANGUAGES (CCLS) Travel Grant: “8th International Conference on Speech Motor Control” (500 €)
07/2022	COLOGNE CENTER OF LANGUAGES (CCLS) Grant for workshop organization: “Show me what you’ve got - Datenmanagement und Transparenz in den (Geistes) wissenschaften” (500 €)
04/2022 – 03/2023	STIFTUNG MERCATOR One-year scholarship for practice-oriented research within doctoral program of the a.r.t.e.s. Graduate School for the Humanities (16.800 €)
03/2022	COLOGNE CENTER OF LANGUAGES (CCLS) Travel Grant: “2nd Workshop on Speech Perception and Production across the Lifespan 2020” (500 €)
09/2019	GERMAN ACADEMIC EXCHANGE SERVICE (DAAD) Travel Grant: „ International Congress of Parkinson's Disease and Movement Disorders 2019“
04/2019 – 03/2022	A.R.T.E.S. GRADUATE SCHOOL FOR THE HUMANITIES Three-year doctoral scholarship (50.400 €)
01/2019	A.R.T.E.S. GRADUATE SCHOOL FOR THE HUMANITIES Travel Grant: “International Symposium on Phonetics and Cognitive Sciences of Language 2019” (1.500 €)
07/2018	COLOGNE CENTER OF LANGUAGES (CCLS) Grant for workshop organization: “Workshop on respiratory movement measures in speech” (500 €)
04/2018	ASSOCIATION FOR LABORATORY PHONOLOGY (ALP) Travel Grant: “16th Conference on Laboratory Phonology: Variation, development and impairment: Between phonetics and phonology” (300 €)
07/2016	FACULTY PRICE for an outstanding bachelor thesis, Faculty of Arts and Humanities, University of Cologne

ONGOING COLLABORATIONS

ANTJE MEFFERD Vanderbilt University Medical Center, Nashville, Tennessee, US
ANNE HERMES Université Sorbonne Nouvelle, CNRS, LPP, Paris, France
SERGE PINTO Aix-Marseille Univ, CNRS, LPL, Aix-en-Provence, France
JAN HLAVNICKA Czech Technical University in Prague, Prague, Czech Republic

QUALIFICATIONS & TRAINING

07/2023	COMMUNICATING SCIENCE SUCCESSFULLY WITH MEDIA AND THE PUBLIC Workshop with Dr. Elisabeth Hoffmann, Dr. Anna Euteneuer, and Lennart Backs, University of Cologne
11/2021	WISSENSCHAFT ERFOLGREICH KOMMUNIZIEREN Workshop with Nicole Körkel
07/2019	3rd SPEECH AND SWALLOWING SCHOOL MDS-ES, Directors: Dr. Jan Rusz and Dr. Elina Tripoliti, Prague, Czech Republic

SUMMARY OF CURRENT RESEARCH ACTIVITY

As a phonetician, I am interested in the speech production of patients with movement disorders with a special focus on REM sleep behavior disorder, Parkinson's disease and Essential Tremor. By using acoustic and kinematic speech recordings, I aim to understand speech mechanisms that induce dysarthria, on the one hand, but to also investigate disease and treatment effects on speech, on the other hand. Speech deficits can occur as side effects of a deep brain stimulation, as so-called stimulation-induced dysarthria. The understanding of the effects of DBS on brain networks responsible for speech is essential for the optimization of stimulation parameters or even electrode placement during surgery to improve the treatment.

PUBLICATIONS

MONOGRAPH

Thies, T. (2023) Tongue Body Kinematics in Parkinson's Disease: Effects of Levodopa and Deep Brain Stimulation. Berlin, Deutschland: Peter Lang Verlag.

PEER-REVIEWED JOURNAL ARTICLES

Mücke, D., Roessig, S., **Thies, T.**, Hermes, A. & Mefferd, A. (under review) Challenges with the kinematic analysis of neurotypical and impaired speech: measures and models. *Journal of Phonetics*.

Jergas, H., Petry-Schmelzer, J.N., Hannemann, J., **Thies, T.**, Strelow, J.N., Rubi-Fessen, I., Quinting, J.M., Baldermann, J.C., Mücke, D., Fink, G.R., Visser-Vandewalle, V., Dembek, T. & Barbe, M.T. (under review) One side effect – two networks? Lateral and postero-medial stimulation spreads induce dysarthria in subthalamic deep brain stimulation for Parkinson's Disease. *Annals of Neurology*.

(Preprint is available here: <https://doi.org/10.1101/2023.04.26.23289100>)

Thies, T., Jergas, H., Mücke, D., Brandt, G. A., Visser-Vandewalle, V., Pinto, S. & Barbe, M.T. (2023) The effects of STN-DBS on motor speech: A longitudinal articulo-graphic study. *Brain stimulation*, 16(6), 1598-1600. DOI: <https://doi.org/10.1016/j.brs.2023.10.013>

Thies, T., Mücke, D., Geerts, N., Seger, A., Fink, G.R., Barbe, M.T. & Sommerauer, M. (2023) Compensatory articulatory mechanisms preserve intelligibility in prodromal Parkinson's disease. *Parkinsonism and related disorders*. DOI: <https://doi.org/10.1016/j.parkreldis.2023.105487>

Lowit, A., **Thies, T.**, Steffen, J., Scheele, F., Roheger, M., Kalbe, E. & Barbe, M.T. (2022) Task-based profiles of language impairment and their relationship to cognitive dysfunction in Parkinson's disease, *Plos One*, 17(10): e0276218. DOI: <https://doi.org/10.1371/journal.pone.0276218>

Thies, T., Hermes, A. & Mücke, D. (2022) Compensation in time and space: Prominence marking in aging and disease. *Languages*, 7, 21. DOI: <https://doi.org/10.3390/languages7010021>

Thies, T., Mücke, D., Dano, R. & Barbe, M.T. (2021) Levodopa-Based Changes on Vocalic Speech Movements during Prosodic Prominence Marking. *Brain Science*, 11(5), 594. DOI: <https://doi.org/10.3390/brainsci11050594>

Steffen, J.K., Jergas, H., Petry-Schmelzer, J. N., Dembek, T.A., **Thies, T.**, Jost, S.T., Dafsari, H.S., Kessler, J., Wirths, J., Fink, G.R., Visser-Vandewalle, V. & Barbe, M.T. (2020) Thalamic Deep Brain Stimulation in Essential Tremor Plus Is as Effective as in Essential Tremor. *Brain Science*, 10(12), 970. DOI: <https://doi.org/10.3390/brainsci10120970>

Petry-Schmelzer, J. N., Jergas, H., **Thies, T.**, Steffen, J. K., Reker, P., Dafsari, H. S., Mücke, D., Fink, G. R., Fink, Visser-Vandewalle, V., Dembek, T.A. & Barbe, M. T. (2020) Network Fingerprint of Stimulation-Induced Speech Impairment in Essential Tremor. *Annals of Neurology*, 89, 315-326. DOI: <https://doi.org/10.1002/ana.25958>

Becker, J., **Thies, T.**, Petry-Schmelzer, J. N., Dembek, T. A., Reker, P., Mücke, D., Grice, M., Visser-Vandewalle, V., Fink, G. & Barbe, M.T. (2020) The effects of thalamic and posterior subthalamic deep brain stimulation on speech in patients

with essential tremor – a prospective, randomized, doubleblind crossover study. *Brain and Language*, 202, 104724.
DOI: <https://doi.org/10.1016/j.bandl.2019.104724>

Thies, T., Mücke, D., Lowit, A., Kalbe, E., Steffen, J. & Barbe, M.T. (2020) Prominence marking in Parkinsonian speech and its correlation with motor abilities and cognition. *Neuropsychologia*, 137, 107306.
DOI: <https://doi.org/10.1016/j.neuropsychologia.2019.107306>

Reker, P., **Thies, T.**, Josten, A., Steffen, J., Dafsari, H.S., Visser-Vandewalle, V. & Barbe, M.T. (2019) Evaluation of a German version of the Bain and Findley Tremor ADL Scale. *Parkinsonism and Related Disorders*, 68, 46-48.
DOI: <https://doi.org/10.1016/j.parkreldis.2019.09.024>

Hermes, A., Mücke, D., **Thies, T.**, & Barbe, M.T. (2019) Coordination patterns in Essential Tremor patients with Deep Brain Stimulation: Syllables with low and high complexity. *Laboratory Phonology: Journal of the Association for Laboratory Phonology*, 10(1), 6. DOI: <http://doi.org/10.5334/labphon.141>

PEER-REVIEWED CONFERENCE PROCEEDINGS

Mücke, D., **Thies, T.**, Büch, P., Furlani, N., Schreen, J. & Hermes, A. (2023). Variability in space, compensation in time: Effects of aging on tongue body kinematics with respect to prosodic focus marking. *20th International Congress of the Phonetic Sciences*, 7 – 11 August 2023, Prague, Czech Republic.

Thies, T., Mücke, D., Ding, A. & Mefferd, A. (2023). Phase relations between the tongue body and the jaw across rate modifications in younger and older speakers. *20th International Congress of the Phonetic Sciences*, 7 – 11 August 2023, Prague, Czech Republic.

Raines, C., **Thies, T.**, Ding, A. & Mefferd, A. (2023). Aging effects on sentence-length velocity distribution characteristics of the tongue and jaw. *20th International Congress of the Phonetic Sciences*, 7 – 11 August 2023, Prague, Czech Republic.

Thies, T., Mücke, D., Dano, R. & Barbe, M.T. (2021). Correlation between levodopa response and acoustic parameters of prominence marking as well as tongue body movements in patients with Parkinson's disease. *12th Seminar on Speech Production 2020*, 14-18 December 2020.

Mücke, D., **Thies, T.**, Mertens, J. & Hermes, A. (2021). Age-related effects of prosodic prominence in vowel articulation. *12th Seminar on Speech Production 2020*, 14-18 December 2020.

Hermes, A., Mücke, D., **Thies, T.** & Barbe, M.T. (2019). Intra-gestural variation in natural sentence production: Essential Tremor patients treated with DBS. *Interspeech 2019*, 15-19 September 2019, Graz, Austria.

Thies, T., Röhr, C.T., Baumann, S. & Grice, M. (2017). Prosodic Marking of Information Status in Picture Story Descriptions. *Proceedings of the Conference on Phonetics & Phonology in German-Speaking Countries*, P&P 13, Sept 28-29, 2017. HU: Berlin

Röhr, C.T., **Thies, T.**, Baumann, S. & Grice, M. (2016). Prosodic marking of Information Status in Task-Oriented Dialogues. *Proceedings of the Conference on Phonetics & Phonology in German-Speaking Countries*, P&P 12, Oct 13-14, 2016, München: LMU.

Thies, T., Hermes, A. & Mücke, D. (2016). Coordination Deficits in Essential Tremor Patients with Deep Brain Stimulation. *Proceedings of the Conference on Phonetics & Phonology in German-Speaking Countries*, P&P 12, Oct 13-14, 2016, München: LMU.