

Dr. Tom Hähnel
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Department of Neurology
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Research interests

Clinical use of AI and Machine Learning in Parkinson's disease and other movement disorders

Qualifications

(General) Medicine, Approbation, Medicine studies
2012 → 2018
Award Date: 14 Nov 2018

Employment

Academic Staff

Department of Neurology
Technische Universität Dresden
28 Jan 2022 → present

Visiting Scientist

Fraunhofer Institute for Algorithms and Scientific Computing
Germany
1 Jan 2023 → 1 Jan 2024

Research outputs

Wie die Umsetzung einer Schule für Menschen mit Parkinson-Krankheit gelingen kann – Ergebnisse eines Konsensusverfahrens und einer formativen Evaluation

Gerschel, T., Prokop, S., Schulze, L., Feige, T., Zschieschang, A., Barbe, M. T., Bitterlich, R., & 22 others Caffier, J., Csofi, I., Eggers, C., Gaßner, H., Gülke, E., Hähnel, T., Herbst, H., Jochim, A., Kiparski, A., Klietz, M., Liel, A. V., Lingor, P., Loewenbrück, K., Maetzler, W., Pürner, D., Riesen, C. V., Schmitz-Pfeiffer, H., Süß, T., Tönges, L., Weiß, D., Wolz, M. & Falkenburger, B., 14 Mar 2024, In: Der Nervenarzt.

Predictive Modeling to Uncover Parkinson's Disease Characteristics That Delay Diagnosis

Hähnel, T., Raschka, T., Klucken, J., Glaab, E., Corvol, J-C., Falkenburger, B. & Fröhlich, H., 13 Mar 2024.

Progression subtypes in Parkinson's disease: Results of an AI-based multi-cohort analysis

Hähnel, T., Raschka, T., Sapienza, S., Klucken, J., Glaab, E., Corvol, J., Falkenburger, B., & 1 others Fröhlich, H., 1 Mar 2024, In: Clinical Neurophysiology. 159, p. e39

Speech Differences between Multiple System Atrophy and Parkinson's Disease: a Multicenter Study

Haehnel, T., Nemitz, A., Schimming, K., Berger, L., Vogel, A., Gruber, D., Schnalke, N., & 3 others Braeuer, S., Falkenburger, B. H. & Gandor, F., 2024.

Progressionstypen der Parkinson-Krankheit: Ergebnisse einer KI-basierten Analyse longitudinaler Parkinson-Kohorten

Hähnel, T., Raschka, T., Falkenburger, B. & Fröhlich, H., Nov 2023.

A Semantic Relatedness Model for the Automatic Cluster Analysis of Phonematic and Semantic Verbal Fluency Tasks Performed by People With Parkinson Disease: Prospective Multicenter Study

Hähnel, T., Feige, T., Kunze, J., Epler, A., Frank, A., Bendig, J., Schnalke, N., & 3 others Wolz, M., Themann, P. & Falkenburger, B., 2 Aug 2023, In: JMIR Neurotechnology. 2, e46021.

Automatic cluster analysis using semantic relatedness for verbal fluency tasks in Parkinson's disease

Hähnel, T., Feige, T., Kunze, J., Epler, A., Frank, A., Bendig, J., Schnalke, N., & 3 othersWolz, M., Themann, P. & Falkenburger, B., Aug 2023.

Progression Subtypes in Parkinson's Disease: A Data-driven Multi-Cohort Analysis

Haehnel, T., Raschka, T., Sapienza, S., Klucken, J., Glaab, E., Corvol, J-C., Falkenburger, B., & 1 othersFröhlich, H., 2023.

Development and Validation of a Fall Questionnaire for Patients with Parkinson's Disease

Frank, A., Bendig, J., Finkbeiner, S., Hähnel, T., Schnalke, N., Feige, T., Reichmann, H., & 1 othersFalkenburger, B. H., Oct 2022, In: Movement disorders clinical practice. 9, 7, p. 900-908

Correlation of Voice parameters and Dysphagia Severity in Multiple System Atrophy

Hähnel, T., Berger, L., Schimming, K., Vogel, A., Falkenburger, B. & Gandor, F., 2022.

Erweiterung eines mathematischen Modells der Chronischen Myeloischen Leukämie mit einer immunologischen Komponente

Hähnel, T., 24 Sept 2021

Model-Based Inference and Classification of Immunologic Control Mechanisms from TKI Cessation and Dose Reduction in Patients with CML

Hähnel, T., Baldow, C., Guilhot, J., Guilhot, F., Saussele, S., Mustjoki, S., Jilg, S., & 6 othersJost, P. J., Dulucq, S., Mahon, F-X., Roeder, I., Fassoni, A. C. & Glauche, I., 1 Jun 2020, In: Cancer research. 80, 11, p. 2394-2406 13 p.

A mathematical modeling approach towards immunological control of minimal residual disease in CML patients

Glauche, I., César Fassoni, A., Hähnel, T., Baldow, C. & Röder, I., Sept 2017.

A New Computational Method to Predict Long-Term Minimal Residual Disease and Molecular Relapse after TKI-Cessation in CML

Glauche, I., Liebscher, H., Baldow, C., Kuhn, M., Schulze, P., Hähnel, T., Voskanyan, A., & 9 othersGuilhot, J., Dulucq, S., von Bubnoff, N., Saussele, S., Mustjoki, S., Jost, P. J., Guilhot, F., Mahon, F-X. & Röder, I., 2 Dec 2016.

Prizes

ParKInsonPredict

Hähnel, Tom (Recipient), 5 Aug 2022

Carl Gustav Carus award for outstanding scientific publication 2020

Hähnel, Tom (Recipient), 2020

Carl Gustav Carus award for outstanding academic achievements

Hähnel, Tom (Recipient), 2019

Activities

Summer School Ost der Deutschen Gesellschaft für Neurologie (DGN) 2023

Hähnel, T. (Organiser), Lapp, H. S. (Organiser), Weber, C. A. M. (Organiser)
21 Aug 2023 → 25 Aug 2023

DGN Summer School Neurologie Dresden

Hähnel, T. (Organiser), Lapp, H. S. (Organiser), Weber, C. A. M. (Organiser)
22 Aug 2022 → 26 Aug 2022

