

Stanford



Friederike Held

Postdoctoral Scholar, Immunology and Rheumatology

Bio

HONORS AND AWARDS

- Clinical Research Training Scholarship, American Academy of Neurology (October 2025)
- TRAM Pilot Grant, Stanford University (September 2025)
- Walter Benjamin Fellowship, German Research Foundation (Deutsche Forschungsgemeinschaft (DFG)) (March 2024)
- Clinician Scientist Scholarship, TUM School of Medicine and Health, Munich, Germany (October 2022)
- Doctoral Scholarship, Otto-von-Guericke University, Magdeburg, Germany & University Southampton, UK (June 2013)

PROFESSIONAL EDUCATION

- Staatsexamen, Otto Von Guericke University of Magdeburg (2017)
- Master of Business Admin, Universitat Erlangen Nurnberg (2023)
- Doctor of Medicine, Otto Von Guericke University of Magdeburg (2020)
- Certified Neurologist, TUM School of Medicine and Health, Munich, Germany , Neurology (2024)
- MHBA, FAU Erlangen-Nuremberg, Germany , Master of Health Business Administration (2023)
- M.D., Otto-von-Guericke University, Magdeburg, Germany , Medicine (2017)

STANFORD ADVISORS

- William Robinson, Postdoctoral Faculty Sponsor

Research & Scholarship

RESEARCH INTERESTS

- Brain and Learning Sciences
- Data Sciences
- Leadership and Organization
- Lifelong Learning
- Research Methods

Publications

PUBLICATIONS

- **Complement C4d Informs the Differential Diagnosis of Inflammatory Demyelinating CNS Diseases** *NEUROLOGY-NEUROIMMUNOLOGY & NEUROINFLAMMATION*

- Landt, C., Held, F., Kolotourou, K., Guranda, M., Vakrakou, A. G., Franz, J., Thomas, C., Schmiedeknecht, M., Bergann, K., Wrzos, C., Endmayr, V., Tsaktanis, T., Zechel, et al
2026; 13 (2): e200528
- **Large-scale proteomics across neurological disorders uncovers biomarker panel and targets in multiple sclerosis.** *Cell*
Bader, J. M., Makarov, C., Richter, S., Strauss, M. T., Held, F., Wahle, M., Lorenz, M. B., Pöschl, L., Skowronek, P., Thielert, M., Berthele, A., Zeng, W. F., Ammar, et al
2026
 - **Neurofilament light chain as a surrogate candidate for disease activity in multiple sclerosis (LUMINOUS)-A meta-regression of randomized controlled trials.** *Multiple sclerosis (Houndmills, Basingstoke, England)*
Pretzsch, R., El Mahdaoui, S., Johnson, P., Soares, M. D., Koerbel, K., Held, F., Bajrami, A., Pozzilli, V., Lucchini, M., Barbuti, E., Bartels, F., Barkat, R., Cordano, et al
2026: 13524585251407973
 - **Blood biomarkers for predicting disability worsening in progressive multiple sclerosis: a multinational, individual participant-level analysis.** *Journal of neurology, neurosurgery, and psychiatry*
Abdelhak, A., Bachhuber, F., Ning, K., Benkert, P., John Boscardin, W., Maleska Maceski, A., Schaedelin, S., Achtnichts, L., Finkener, S., Lalive, P. H., Uginet, M., Pot, C., Du Pasquier, et al
2025; 96 (11): 1046-1052
 - **Distinct Reactivity Patterns to EBV Nuclear Proteins and CNS Antigens Distinguish CNS Demyelinating Disorders from Systemic Autoimmunity**
Sattarnejhad, N., Held, F., Babaei, M., Gawde, S., Ho, P., Barrett, A., Wijerante, T., Comanescu, A., Parsafar, S., Bartels, F., McDonald, J., Kipp, L., Van Haren, et al
SAGE PUBLICATIONS LTD.2025: 309-310
 - **Real-World Practices and Challenges of Radiologically Isolated Syndrome (RIS): Results of a Cross-Sector Survey by the DACH MS Guidelines Group**
Held, F., Bayas, A., Berthele, A., Christe, K., Dettmers, C., Domurath, B., Ebert, J., Fasshauer, E., Flachenecker, P., Gaertner, J., Hasanbasic, D., Heesen, C., Hegen, et al
SAGE PUBLICATIONS LTD.2025: 138-140
 - **Prognostic Factors for Multiple Sclerosis Symptoms in Radiologically Isolated Syndrome.** *JAMA neurology*
Fissolo, N., Schaedelin, S., Villar, L. M., Lünemann, J. D., Correale, J., Rejdak, K., Schwab, N., Vilaseca, A., Held, F., Garcia-Merino, A., Bittner, S., Trojano, M., Furlan, et al
2025; 82 (7): 722-733
 - **Single-cell analysis of cerebrospinal fluid reveals common features of neuroinflammation.** *Cell reports. Medicine*
Jacobs, B. M., Gasperi, C., Kalluri, S. R., Al-Najjar, R., McKeon, M. O., Else, J., Pukaj, A., Held, F., Sawcer, S., Ban, M., Hemmer, B.
2025; 6 (1): 101733
 - **Proteomics Reveals Age as Major Modifier of Inflammatory CSF Signatures in Multiple Sclerosis.** *Neurology(R) neuroimmunology & neuroinflammation*
Held, F., Makarov, C., Gasperi, C., Flaskamp, M., Grummel, V., Berthele, A., Hemmer, B.
2025; 12 (1): e200322
 - **A Genetic Risk Variant for Multiple Sclerosis Severity is Associated with Brain Atrophy.** *Annals of neurology*
Gasperi, C., Wiltgen, T., McGinnis, J., Cerri, S., Moridi, T., Ouellette, R., Pukaj, A., Voon, C., Baffigil, C., Lauerer, M., Andlauer, T. F., Held, F., Aly, et al
2023; 94 (6): 1080-1085
 - **Locus for severity implicates CNS resilience in progression of multiple sclerosis** *NATURE*
Harroud, A., Stridh, P. J., McCauley, J. H., Saarela, J., van den Bosch, A. M. R., Engelenburg, H., Beecham, A., Alfredsson, L., Alikhani, K., Amezcua, L., Andlauer, T. F. M., Ban, M., Barcellos, et al
2023: 323-331
 - **The impact of disease-modifying therapies on immunoglobulin blood levels in patients with multiple sclerosis: a retrospective cross-sectional study.** *Therapeutic advances in neurological disorders*
Klein, A., Flaskamp, M., Berthele, A., Held, F., Muratovic, H., Hemmer, B.
2023; 16: 17562864231162661

- **Frequency of myelin oligodendrocyte glycoprotein antibodies in a large cohort of neurological patients.** *Multiple sclerosis journal - experimental, translational and clinical*
Held, F., Kalluri, S. R., Berthele, A., Klein, A. K., Reindl, M., Hemmer, B.
2021; 7 (2): 20552173211022767
- **Genetic Variation in WNT9B Increases Relapse Hazard in Multiple Sclerosis.** *Annals of neurology*
Vandebergh, M., Andlauer, T. F., Zhou, Y., Mallants, K., Held, F., Aly, L., Taylor, B. V., Hemmer, B., Dubois, B., Goris, A.
2021; 89 (5): 884-894
- **Vascular basement membrane alterations and β -amyloid accumulations in an animal model of cerebral small vessel disease.** *Clinical science (London, England : 1979)*
Held, F., Morris, A. W., Pirici, D., Niklass, S., Sharp, M. M., Garz, C., Assmann, A., Heinze, H. J., Schreiber, F., Carare, R. O., Schreiber, S.
2017; 131 (10): 1001-1013