



University Clinic Tübingen ■ 72016 Tübingen

Whom it may concern

University Clinic Tübingen
Calwerstraße 14
72076 Tübingen

Thomas Wolfers
<https://mhm-lab.github.io>

27.09.2024

**PostDoc Position (24 Months) or PhD (36 Months) in the
Laboratory for Mental Health Mapping @ Department of Psychia-
try, University of Tübingen** <https://mhm-lab.github.io>

We seek a motivated Postdoctoral Researcher or PhD candidate with expertise in time series analysis, dynamic systems, and/or machine learning to contribute to a **BMBF-funded project** on Long COVID and digital phenotyping. The candidate will investigate individual differences in Long COVID by integrating ecological momentary assessment (EMA), imaging biomarkers, and machine learning, analyzing large-scale datasets (N>50.000) and incorporating physiological and digital markers (e.g., heart rate, activity, location) from mobile devices as well as brain imaging data.

Key Responsibilities

- Developing psychometric network models for normative prediction.
- Creating normative models for patient trajectories using generative approaches.
- Implementing these models on large clinical and EMA databases.
- Disseminate a research paper on the heterogeneity of Long COVID patients.

Qualifications

- Background (MSc or PhD) in data or computer science, neuroscience, physics, psychology, or related fields.
- Expertise in machine learning, data analysis, or statistical modeling.
- Experience with big data in health contexts; familiarity with digital phenotyping is a plus.
- Strong communication skills and ability to collaborate.

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Universitätsklinikum Tübingen

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Aufsichtsrat

Dr. Hans J. Reiter (Vorsitzender)

Vorstand

Prof. Dr. Michael Bamberg (Vorsitzender)
Gabriele Sonntag (Stellv. Vorsitzende)
Prof. Dr. Karl Ulrich Bartz-Schmidt
Prof. Dr. Bernd Pichler
Klaus Tischler

Banken

Baden-Württembergische Bank Stuttgart:
(BLZ 600 501 01) Konto-Nr. 7477 5037 93
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Kreissparkasse Tübingen:
(BLZ 641 500 20) Konto-Nr. 14 144
IBAN: DE 79 6415 0020 0000 0141 44
BIC (SWIFT-Code): SOLADES1TUB

What We Offer

- A supportive research environment with access to computational resources for large-scale projects.
- Collaboration with international experts in digital health and machine learning.
- Opportunities to publish in high-impact journals and contribute to innovative mental health research.

The Team: You will join an interdisciplinary group led by Dr. Wolfers, collaborating with leading experts in Germany and internationally, including Dr. Dinga (machine learning in psychiatry) and Prof. Hauser (digital phenotyping). Collaboration with Prof. Durstewitz (dynamic systems modeling) will support your research. You'll benefit from a vibrant research environment with excellent opportunities for career development.

Equality: We are committed to equal opportunities and welcome applications from individuals with disabilities and all genders. We encourage women to apply for this position as part of our commitment to increasing the percentage of female scientists.

Application Process: Applications are open now. Submit your CV, motivation letter, and references to dr.thomas.wolfers@gmail.com. First interviews will be scheduled after October 15, 2024, until the position is filled. The University of Tübingen is responsible for all employment matters, and personnel appointments will be made pursuant to the fundamental stipulations of the legal statutes for universities in Germany. Please note that interview expenses are not covered.

Position Duration: 24 months (PostDoc) // 36 months (PhD)

Salary: TV-L E13 (German Public Service Salary Scale, 100% Postdoc or 65% PhD candidate)

Start Date: Earliest November 1, 2024.