

Curriculum Vitae

Dr. med. Thomas Kaas

EDUCATION AND ACADEMIC CAREER

2001 – 2005	Diesterweg Primary School in Halberstadt
2005 – 2013	Käthe Kollwitz High School in Halberstadt Graduation: Abitur (final grade: 1.1, “very good”)
10/2013 – 05/2021	<i>Friedrich Schiller University Jena</i> : Study of Human Medicine with final grade (1.3, "very good")
09/2015	1 st Section of the Medical Examination, final grade 1.0 ("very good")
10/2018 – 12/2018	Internship at <i>Royal North Shore Hospital</i> in Sydney (Gastroenterology and Radiology)
04/2020	2 nd Section of the Medical Examination with final grade 2.0 ("good")
05/2020 – 04/2021	Final (Practical) year as part of the medical studies: 1 st rotation: Surgery (<i>Zentralklinik Bad Berka</i>) 2 nd rotation: - Internal Medicine & Cardiology (<i>University Hospital Zurich</i>) - Hematology and Internal Oncology (<i>University Hospital Jena</i>) 3 rd rotation: Neurology (<i>University Hospital Jena</i>)
05/2021	3 rd Section of the Medical Examination with final grade 1.0 ("very good")
06/2021	Medical License to Practice Medicine in Germany
07/2021	Doctorate at the Medical Faculty of <i>Friedrich Schiller University Jena</i> with "Beteiligung Somatostatin-positiver Interneurone an Giant Depolarizing Potentials in der CA1 Region des neonatalen Hippokampus von Mäusen in vitro" (Distinction: "Summa Cum Laude" 1.0)
09/2021 – 04/2024	Postdoctoral researcher in Prof. Hallermann's research group (Focus: Synaptic Plasticity) and specialist training in Physiology at the <i>Carl Ludwig Institute for Physiology Leipzig</i>

seit 05/2024	Resident Physician with Specialist Training in Cardiology at the <i>Deutsches Herzzentrum der Charité (Campus Mitte)</i> in Berlin
seit 10/2024	Academic student in the Bachelor of Science Mathematics program at the Faculty of Mathematics and Computer Science at the <i>FernUniversität Hagen</i>

SCHOLARSHIPS / AWARDS

2011 – 2012	Participation in the support program of the <i>Jugend Aktiv Mitteldeutschland</i>
06/2013	Award from the <i>German Physical Society (DPG)</i> for an excellent exam results in physics (a-levels)
04/2016 – 05/2021	Scholarship holder of the German National Academic Foundation (<i>Studienstiftung des deutschen Volkes</i>)
10/2016 – 09/2017	Doctoral scholarship holder of the <i>Interdisziplinären Zentrums für Klinische Forschung (Jena)</i>
10/2017	<i>MLP Medical Excellence Scholarship "Neurosciences"</i>
05/2019	Award „Paper of the Month“ from the <i>Deutsche Physiologischen Gesellschaft</i>
06/2022	Dissertation Award of Friedrich Schiller University Jena

FURTHER EDUCATION / INTERNSHIPS / CONFERENCES

03/2017	Conference of the German Neuroscience Society
09/2017	Conference of the Life Sciences College of the German National Academic Foundation, Working Group Biophysics
11/2017	Ultrasound Course at the Institute for Diagnostic and Interventional Radiology in Jena
09/2019	Summer School Young Neurologists of the German Society for Neurology in Dresden
11/2019	Annual Congress of the German Society for Psychiatry, Psychotherapy, Psychosomatics, and Neurology
03/2021	Academy of the German National Academic Foundation Information Processing and Neurodegenerative Diseases
05/2021 – 07/2021	<i>Paris Spring School</i> Optical Imaging and Electrophysiological Recording in Neuroscience, <i>La Société Française d'Optique</i>
06/2021	<i>Young Physiologists Symposium</i>

09/2021	Further training in Animal Experimentation (<i>Berlin Compact Courses</i>)
09/2021	Conference of the German Physiological Society (Frankfurt)
09/2022	Conference of the German Physiological Society (Copenhagen)
10/2024	GCP Course "Basic Course in Clinical Studies" of the <i>Clinical Trials Office of Charité University Medicine Berlin</i> (Certificate)

PROFESSIONAL EXPERIENCE

06/2021 – 08/2021	Occupational physician during the COVID-19 pandemic at <i>Jena Occupational Medicine GmbH</i>
09/2021 – 04/2024	Postdoctoral researcher at the <i>Carl Ludwig Institute for Physiology</i> (Hallermann Department, Focus: Neurophysiology)
09/2021 – 04/2024	Specialist training in Physiology at the <i>Medical Faculty of Leipzig University</i> (Mentor: Prof. Dr. med. Beate Raßler)
10/2021 – 03/2022	Physician for mobile vaccination campaigns in the Greater Thuringia & Saxony-Anhalt area
12/2021 – 03/2022	Deputy Medical Director of the municipal vaccination center and children's vaccination center in Jena
01/2023 – 04/2024	Co-reviewer (together with Prof. Dr. Stefan Hallermann) for scientific articles in the journals <i>EMBO Reports</i> (IF 8.8), <i>Cell Reports</i> (IF 9.4), <i>Neuron</i> (IF 18.7)
seit 10/2024	Reviewer (together with Prof. Dr. Köhler) for scientific articles in the journal <i>JMIR</i> (IF 5.8)

TEACHING APPOINTMENTS

10/2014 – 03/2015	Student Mentor for first semester medical students at <i>Friedrich Schiller University Jena</i>
04/2015 – 04/2019	Tutor and Lecturer for student-oriented Seminars at the Institute for Biochemistry for Medical Students <i>Friedrich Schiller University Jena</i>
09/2018 – 09/2019	Tutor and Lecturer organizing practical student courses at the Clinic for Neurology at <i>Friedrich Schiller University Jena</i>
08/2022 – 04/2024	Examination Board Member (Physiology) 1 st Section of the Medical Examination at the <i>Medical Faculty of the University Leipzig</i>

09/2022 – 04/2024	Lecturer (Physiology) for Seminars and Practical Courses for medical students and students of pharmaceutical science at the <i>Medical Faculty of the University Leipzig</i>
seit 09/2024	Lecturer for Practical Courses (OSCE) for medical students at the <i>Medical Faculty of the Universitätsmedizin Charité</i>

MEMBERSHIPS AND SOCIAL ENGAGEMENT

04/2015 – 12/2015	Participation in the <i>Schatzheber</i> -project of the <i>Jena Citizens Foundation</i> at the <i>Seidelhaus daycare center</i> in Jena (musical early education)
11/2015 – 08/2018	Member of the Working Group <i>Exchange</i> as a local representative of the <i>German Medical Students Association</i> (BVMD) e.V., responsible for supervising and organizing clinical electives for international students
03/2022 – 04/2024	Board member of the <i>Young Physiologists</i> (junior organization of the <i>German Physiological Society</i>)
seit 06/2022	Member of the selection committee of the German National Academic Foundation
seit 06/2022	Member of the Society of Friends and Supporters of <i>Friedrich Schiller University Jena</i>
seit 05/2024	Member of the <i>German Society for Internal Medicine</i> (DGIM) and part of the core team of the <i>AG JUNGE DGIM</i>
seit 01/2025	Member of the <i>German Society for Cardiology</i> (DGK) and part of the <i>AG Young DGK</i>

LIST OF PUBLICATIONS

Tom Flossmann, **Thomas Kaas**, Vahid Rahmati, Stefan J Kiebel, Otto W Witte, Knut Holthoff, Knut Kirmse. (2019)
Somatostatin Interneurons Promote Synchrony in the Neonatal Hippocampus.
Cell Rep. 26(12): 3173-3182.

Andreas Ritzau-Jost, Jana Nerlich, **Thomas Kaas**, Martin Krueger, Timur Tsintsadze, Jens Eilers, Boris Barbour, Stephen M Smith, Stefan Hallermann. (2023)
Direct whole-cell patch-clamp recordings from small boutons in rodent primary neocortical neuron cultures. **STAR Protocols.** 34(16): 102168.

Thomas Kaas, Jana Nerlich, Stefan Hallermann (2023)
What calcium channels remember.
eLife 2023. 12: e9054.

Filiz Sila Rizalar, Max T. Lucht Astrid Petzoldt, Shuhan Kong, Jiachen Sun,

James H. Vines, Narasimha Swamy Telugu, Sebastian Diecke, **Thomas Kaas**, Torsten Bullmann, Christopher Schmied, Delia Löwe, Jason S. King, Wonhwa Cho, Stefan Hallermann, Dmytro Puchkov, Stephan J. Sigrist, Volker Haucke. (2023)

Phosphatidylinositol 3,5-bisphosphate facilitates axonal vesicle transport and presynapse assembly.
Science 2023. 382 (6667).

Torsten Bullmann*, **Thomas Kaas***, Andreas Ritzau-Jost*, Anne Woehner, Toni Kirmann, Filiz Sila Rizalar, Max Holzer, Jana Nerlich, Christian Geis, Jens-Karl Eilers, RJ Kittel, Thomas Arendt, Volker Haucke, Stefan Hallermann (* equal contribution). (2024)

Human iPSC-derived neurons have large presynaptic action potentials.

J Neuroscience 2024. 44 (24). e0971232024

Friedrich Koehler, Meike Hiddemann, Magdalena Koehler, Sebastian Spethmann, **Thomas Kaas**, Bettina Zippel-Schultz, Thomas Maria Helms (2024)

Telemedizinische Versorgungskonzepte bei Herzinsuffizienz: Status und Zukunft

Herz 2024.

Nils Hinrichs, Alexander Meyer, Kerstin Koehler, **Thomas Kaas**, Meike Hiddemann, Sebastian Spethmann, Felix Balzer, Carsten Eickhoff, Volkmar Falk, Gerhard Hindricks, Nikolaos Dagres and Friedrich Koehler (2024)

Artificial intelligence based real-time prediction of imminent heart failure hospitalisation in patients undergoing non-invasive telemedicine

Frontiers in Cardiovascular Medicine 2024.



Dr. med. Thomas Kaas
Berlin, 01.03.2025