

GERMAN GRADUATE SCHOOLS OF NEUROSCIENCE



21 International Graduate Schools at a Glance

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German Graduate Schools of Neuroscience is a network of 21 neuroscience graduate schools that operate a joint website and market German neuroscience at major conventions. The network was founded to inform international students about the opportunity of studying neuroscience in master and doctoral programs in Germany. All programs are taught in English.

Our member programs offer specific information for international applicants on their websites. Most master programs in Germany don't charge tuition fees. Doctoral and PhD programs are tuition free. Some member programs offer scholarships for master and/or doctoral students. You will find more information on fees and scholarships in the member programs' entries in this booklet and on their websites.

Located in the heart of Europe, Germany with its more than 80 million inhabitants has a long-standing tradition of science and research. Today, there are 427 state-accredited universities in Germany with more than 18,000 degree programs in 180 cities, including our neuroscience programs. The map on the cover of this brochure shows where to find our member programs.

Germany's higher educational system is state-funded and decentralized. The universities and research organizations are largely independent. Regarding the terms of study there are no standard answers to study regulation questions – these will be answered by the program chosen.

This brochure provides applicants with specific information on our neuroscience programs as well as contact addresses and links for further reading.

www.neuroschoools-germany.com

- 4 The Berlin School of Mind and Brain is an international, English-language research school based at the Humboldt-Universität zu Berlin. Founded in 2006 as part of Germany's Excellence Initiative, it offers a unique interdisciplinary three-year doctoral program in the mind/brain sciences. In 2012, the school initiated a structured postdoctoral program and added a two-year interdisciplinary Master's Program.

Career Options for MScs

Research, education, and laboratories; academic management or areas where science and business, industry or politics overlap.

Career Support for Doctoral Students

Two professorial thesis advisors ("mind" and "brain"); regular meetings with leading international researchers; networking activities; mentoring; coaching; career development advice; academic soft-skill courses; family support; financial assistance to attend international conferences.

Career Support for Postdocs

Project monitoring; supervision training; mentoring; networking activities; family support; teaching portfolio development; assistance in raising third-party funding; opportunity to organize and host own international workshops.

Focus

Of particular interest are research questions that fall on the borders between the 3 mind sciences (e.g. philosophy, behavioral and cognitive psychology, linguistics) and the brain sciences (e.g. neurology, psychiatry, neurobiology, computational neuroscience): perception, attention and consciousness; decision-making; language; lifespan development; mental disorders and brain dysfunction; social cognition; and philosophy of mind. The school has a faculty comprising 56 distinguished senior researchers, 46 doctoral candidates, 74 doctoral alumni, 17 postdoctoral fellows, and cohorts of 25 Master's students per year.

Contact Information

CHAIRS Prof. Dr. Michael Pauen,
Prof. Dr. Arno Villringer

COORDINATOR Ms Annette Winkelmann,
M.A.

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WEB www.mind-and-brain.de

Deadline for Application

MSc/MA: 1–31 May.

Doctoral program: 15 January (general deadline for all students with and without secured funding), 15 July (students with secured funding only).

PLACES MSc/MA: 25 per year; doctoral program: 10–15 per year.

SCHOLARSHIPS Approximately 5 per year (doctoral students only).

TUITION FEE None.

The Master and PhD Programs at the Bernstein Center for Computational Neuroscience Berlin (BCCN Berlin) involve the three Berlin universities Technische Universität, Humboldt-Universität, Freie Universität, and Charité-Universitätsmedizin Berlin. Both the Master and PhD programs are interdisciplinary and strongly research oriented. They also offer a mentoring program and are embedded in a unique scientific environment. The language of instruction is English.

Career Options for MScs

The MSc qualifies for jobs in the field of programming, machine learning and a scientific career.

Career support for Postdocs

Postdocs find support in the career centers of the participating institutions with network options, grants, entrepreneurship etc.

Contact Information

CHAIR Prof. Dr. Klaus Obermayer

COORDINATOR Dr. Robert Martin

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@bccn-berlin.de

WEB www.computational-neuroscience-berlin.de

Focus

Understanding the functioning of the brain requires collaboration between neurobiologists, neuro-psychologists, cognitive scientists, medical researchers, computer scientists, mathematicians, physicists, and engineers, as well as an ongoing interplay between theoretical and experimental approaches. Our goal is to educate master's and PhD students to communicate across these diverse disciplines and work on highly challenging projects, enabling them to contribute to the fast growing field of neuroscience via their own autonomous research.

Research in the Master Program takes the form of lab rotations and the master's thesis. In the structured Doctoral Program the research project is complemented by course work.

Deadline for Application

MSc/PhD: 15 March.

PLACES MSc: 15 per year; doctoral program: 6–7 per year; association with other funding measures is possible.

SCHOLARSHIPS 6–7 (for PhD program only).

TUITION FEE None.

- 6 Medical Neurosciences, hosted by the Charité, offers research-focused training for natural scientists and medical doctors. The program provides a thorough education, qualifying for basic neurosciences as well as translational research. As part of the cluster of excellence NeuroCure, it offers access to its many different research institutions, with research focuses ranging from molecular to systems neuroscience.

Career Options for MScs

Most graduates pursue an academic career (PhD, Medical School). However, transitions to industrial research, patent law and similar careers in corporate environments occur frequently.

Career Support for Postdocs

The NeuroCure Continuous Education Program offers level specific support for career development inside and outside of academia for postdocs and PhD students.

Contact Information

CHAIR Prof. Dr. Helmut Kettenmann

COORDINATOR Dr. Benedikt Salmen

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WEB www.medical-neurosciences.de

www.neurocure.de

www.ecn-berlin.de

Focus

The Medical Neurosciences program combines basic science and clinical research into a translational approach focusing on the central and peripheral nervous systems. Its structure enables master's students and PhD students alike to develop an individual curriculum, taking individual backgrounds and project related needs into account, so students can tailor it to their interests and specific research requirements. Apart from the institutions of NeuroCure, close cooperation with many programs including Computational Neuroscience and Mind and Brain offer plenty of opportunities for training interactions and interdisciplinary exchange.

Deadline for Application

MSc: 15 January.

PhD: 15 January, 15 May, 15 September.

PLACES MSc: 15 per year; PhD: not limited.

SCHOLARSHIPS Available for MSc students.

TUITION FEE €2,500/semester (only for MSc students).

The MSc Social, Cognitive, and Affective Neuroscience at Freie Universität Berlin is a two-year integrated and research-oriented international study program. Students obtain broad theoretical and methodological knowledge in analysing and predicting the neurocognitive foundations of behaviour. The program qualifies students for scientific work in the fields of fundamental and applied research with neurocognitive methods.

Contact Information

CHAIR Prof. Dr. Dirk Ostwald

COORDINATOR Dr. Stefan Petri

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WEB [www.ewi-psy.fu-berlin.de/studium/Psychologie/social_cognitive_affective_neuroscience_/](http://www.ewi-psy.fu-berlin.de/studium/Psychologie/social_cognitive_affective_neuroscience/)

Focus

The MSc program is hosted by the Psychology department and the Center for Cognitive Neuroscience Berlin. Work in the associated research groups focusses on the neural basis of perception, decision making, and affect, combining non-invasive neurocognitive experimentation (M/EEG, fMRI) and computational modelling. The first year of the course comprises modules on Statistical Methods, Neurocognitive Methods and Programming, Cognitive Neuroscience, Affective and Social Neuroscience, Developmental and Evolutionary Neuroscience, and Clinical Neuroscience. The second course year is dedicated to individual research projects, including the Master thesis project. The hands-on approach of the second year is supplemented by a Research Workshop and Neurocognitive Methods practical. The program is open to domestic and international students holding a Bachelor's degree in psychology, neurosciences, cognitive sciences, physics, biology, computer science, medicine or an equivalent of the aforementioned fields. The academic year starts in October.

Deadlines

31 May.

PLACES 20 per year.

SCHOLARSHIPS None.

TUITION FEE None.

- 8 The English-taught two-year MSc program “Behaviour: From Neural Mechanisms to Evolution” at Bielefeld University provides a comprehensive understanding of the fundamental principles of autonomous adaptive behaviour of animals and humans. It bridges the gap between neurophysiology and behavioural ecology. Centered in the Faculty of Biology, our interdisciplinary program cooperates with the Cluster of Excellence “Cognitive Interaction Technology” (CITEC).

Career Options for MScs

Excellent MSc students may change directly to the doctoral program after the successful completion of their first year of studies.

Contact Information

COORDINATOR Prof. Dr. Martin Egelhaaf

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WEB web.biologie.uni-bielefeld.de/Master-BeNE/

Focus

Understanding the mechanisms that allow animals and humans to behave adaptively in complex environments is one of the most challenging tasks in science. Our study program integrates computational and experimental approaches. It focuses on the control of behaviour by neuronal circuits as well as on the evolution of behaviour. Emphasis during the first year is put on individual tutoring and intensive training in small groups. In the second year students will carry out projects in different research groups. Seminar talks by internationally renowned scientists from other institutions extend the scope of the program. Projects can be realized in a cooperative international research institution.

Deadline for Application

MSc: 15 July; PhD: Applications are welcome throughout the year.

PLACES MSc: 14 per year; PhD: open.

TUITION FEE None.

The International Graduate School of Neuroscience (IGSN) of the Ruhr University Bochum, offers research and education opportunities in all aspects of neuroscience from the molecular level to higher cognitive functions. The interdisciplinary nature is represented by the four member faculties of Biology, Chemistry, Medicine, and Psychology and the Institute for Neural Computation.

Focus

The traditional educational approach of studying one academic discipline cannot equip a modern neuroscientist to compete in the international field. Transdisciplinary and multidisciplinary educational approaches must be evolved to enable young neuroscientists acquire the best possible grounding in neuroscience research.

The IGSN incorporates neuroscientists of high international renown, who work in very diverse scientific disciplines, to achieve this goal. The mission of the IGSN is to generate a cooperative synergy among these scientists, from which young neuroscientists can benefit through the acquisition of high-level transdisciplinary PhD training.

Through highly-focused, individualized PhD training, we aim to enable fast-track PhD training that culminates in a qualitative PhD in Neuroscience within 36 months. Combined with soft skills training and a state-of-the-art English language curriculum, our goal is to give young neuroscientists from all over the world the best possible education, which will in turn serve as a launch-pad for an outstanding career in the field of neuroscience.

Contact Information

DIRECTOR / DEAN OF STUDIES

Prof. Dr. Denise Manahan-Vaughan

COORDINATOR Ms Ursula Heiler, M.A.

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WEB www.rub.de/igsn

Deadline for Application

Applications are welcome throughout the year.

TUITION FEE None.

- 10 The first of its kind in uniting Universities and Max Planck Institutions on both sides of the Atlantic, the International Max Planck Research School (IMPRS) for Brain and Behavior offers since 2016 a competitive world-class PhD training and research program in the neurosciences. The IMPRS for Brain and Behavior is a transatlantic collaboration between the University of Bonn and the Max Planck associated Center of Advanced European Studies and Research (caesar) along with the USA partners Florida Atlantic University and the Max Planck Florida Institute for Neuroscience. The school offers students the option to conduct their training and research with any of the four partners in either Bonn, Germany or Jupiter, Florida.

Career Support for Doctoral Students

Coordinators in Germany and Florida to assist and support throughout research career. TAC chosen by student. Soft skills courses. Travel grants to attend workshops, conferences, and extended research stays.

Contact Information

SPEAKER Jason Kerr, PhD

COORDINATOR Denise Butler (Bonn) / Jessica Herbst (Florida)

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WEB www.imprs-brain-behavior.mpg.de

Focus

Our research programs address how sensory information is encoded in neural circuits and is transformed ultimately to behavior. The level of analysis ranges from understanding molecular signaling cascades in spines during learning to understanding how sensory and motor circuits are activated in awake behaving animals. Students admitted to this unique IMPRS program will profit tremendously from the range of cutting-edge techniques as many of the IMPRS faculty have developed key methods that have been instrumental in better understanding brain circuit function in the whole animal. We are a multi-disciplinary, English language program which invites outstanding applicants from diverse backgrounds. Our mission is to equip students graduating from the program with an exceptional level of knowledge and skills, forming the basis for a successful independent research career.

Deadline for Application

1 December

PLACES 10–15 (varies)

SCHOLARSHIPS All positions are fully-funded.

TUITION FEE None.

The MSc Neurosciences at the University of Bonn is a two-year research oriented, international study program. The curriculum is entirely taught in English and divided into modules, combining courses, lectures, seminars and laboratory work.

The major objective of the MSc Neurosciences program is to train talented students in the rapidly expanding field of Neuroscience.

The Bonn International Graduate School (BIGS) Neuroscience and the International Max Planck Research School (IMPRS) for Brain and Behavior provide a coordinated curriculum that builds upon our Master Program Neurosciences. A coordinated curriculum that builds upon our Master Program Neurosciences.

Career Options for MScs

Successful graduates are proficient to engage in future ground-breaking research and start careers in a large variety of associated medical and biological fields.

Contact Information

CHAIR Prof. Dr. Christian Steinhäuser,
Prof. Dr. Gerhard von der Emde

COORDINATOR Dr. Silke Künzel

E-MAIL neurosciences@uni-bonn.de

WEB www.neurosciences.uni-bonn.de

Focus

During the first semester three compulsory modules in neuroanatomy, neurophysiology and molecular neurobiology provide the basics in neurosciences. Additionally, students have to choose one elective module. In the second semester a fourth compulsory module propagates knowledge in statistics, research ethics, and scientific writing. Three elective modules from different research fields complete the second semester. In the third semester students have to select two compulsory practical trainings. Finally, in the fourth semester, the program is completed by writing the Master's thesis.

The program is open to domestic and international students holding a Bachelor's degree or higher in one of the life sciences, including biology, neurosciences, medicine, pharmacy, biochemistry, biophysics, or related fields. The academic year starts in mid-October, following a week of orientation. Applications are welcome even if the required degree has not been awarded by the time of application as long as this will be conferred before courses start in October.

Deadline for Application

31 March.

PLACES 20 per year.

SCHOLARSHIPS Yes.

TUITION FEE None.

- 12 The international Master of Neurosciences Program at the Center for Cognitive Sciences in Bremen educates students to become researchers in the field of cognitive neuroscience, including pathologies that afflict the brain. The program covers neurophysiology, neuroanatomy, behavioral pharmacology, computational models, psychophysics, neuropsychology, cognitive psychology and imaging.

Career Options for MScs

The program allows access to neuroscientific basic and clinical research as well as many industrial sectors.

Contact Information

COORDINATOR Prof. Dr. Michael Koch
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WEB www.uni-bremen.de/mscneuro

Focus

The main focus of the program is on cognitive neurosciences. In the first semester, students acquire basic theoretical knowledge in cellular, molecular, systemic, theoretical and clinical neurosciences and practical experience by attending courses of programming and laboratory animal science. The second term allows students to focus on their individual interests by choosing three advanced practical modules. Consolidation and application of the advanced theoretical and practical knowledge and training of abilities in the area of experimental design and scientific communication is the aim of two lab rotations in the third term which can be made in another institute or clinic in Germany or abroad, followed by a Master's project in the last term. Due to their broad education, our students are highly appreciated. 80% of them start with a PhD after finishing their Master studies.

Deadline for Application

30 April.

PLACES 20 per year (MSc).

TUITION FEE None.

FRANKFURT

INTERNATIONAL MAX PLANCK RESEARCH SCHOOL (IMPRS) FOR NEURAL CIRCUITS

The IMPRS for Neural Circuits is a graduate program, which was established by the Max Planck Institute for Brain research in 2011. The program offers ten positions every year for talented students holding a relevant Master's or Bachelor's degree to perform research resulting in a PhD and is taught in English.

We offer a multidisciplinary educational program and research experience in the participating institutions of the Frankfurt Neuroscience community to excellent doctoral students with backgrounds in neuroscience, mathematics, physics, computer science, (bio) chemistry, biology and medicine. The education program includes research rotations and neuroscience courses but also in trainings in transferable skills as well as summer schools, lecture series and exchange programs with excellent research institutes abroad.

A special fast track option is offered to students with a Bachelor's as their highest degree.

Contact Information

SPEAKER Prof. Dr. Gilles Laurent
(Max Planck Institute for Brain Research)

COORDINATOR Dr. Arjan Vink
(Max Planck Institute for Brain Research)

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WEB www.imprs.brain.mpg.de

Focus

The common focus of the IMPRS for Neural Circuits will be the understanding of neural circuits (from the simple to the large and complex), at all scales required to achieve this understanding. This ambitious objective will require analyses at the molecular, cellular, multicellular, network and behavioral levels, with the full understanding that macroscopic phenomena (spatial patterns, dynamics) can be scale-dependent, and that reductionism is not always sufficient as a method. IMPRS Faculty are 24 Frankfurt neuroscientists from Max Planck Institute for Brain Research, Max Planck Institute of Biophysics, Goethe University, Ernst Strüngmann Institute for Neuroscience and Frankfurt Institute for Advanced Studies.

Deadline for Application

1 December.

PLACES Up to 10 per year (fully funded).

TUITION FEE None.

- 14 The MSc Neuroscience program provides theoretical and practical training in neuroscience, covering both the foundations and the latest research in the field. We offer specializations in computational neuroscience, neuro-/optophysiology, neurotechnology and neurodevelopment and our modular course structure caters to the specific backgrounds and research interests of each student.

Contact Information

CHAIR Prof. Dr. Carsten Mehring

COORDINATOR Dr. Danica Subally-Haupt

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WEB www.mscneuro.uni-freiburg.de

Focus

The English-taught two-year course is offered by labs from three faculties and research centers. Transcending the neuroscientific disciplines, our program takes an integrated approach: incorporating skill training and education in a wide range of theoretical and experimental methods, students are encouraged to approach problems from different angles. The program starts in October and will last two years. After finishing your first term learning the methodological and scientific foundations, you have the opportunity to select an individual research path. Graduates of the neurosciences have made academic careers as lecturers and professors. They can also be found in the healthcare and service sectors.

Deadline for Application

31 May.

PLACES 25 per year.

TUITION FEE Tuition fee for international students (non EU-citizens) and for a second degree – please read following Web-Page: www.studium.uni-freiburg.de/aktuelle-mitteilungen-en/studiengebuehren-international-en?set_language=en

What are the theoretical foundations and basic mechanisms of brain function? And how can this knowledge be applied in the development of prostheses and interfaces that directly connect to the nervous system? The Bernstein Center Freiburg (BCF) has been established as the university's central scientific facility to provide a platform to organize this branch of research in Freiburg.

Contact Information

CHAIR Prof. Dr. Stefan Rotter

COORDINATOR Dr. Birgit Ahrens

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WEB www.bcf.uni-freiburg.de/teaching-and-training/braindisc

Focus

The BCF offers a multi-disciplinary PhD program in Computational Neuroscience & Neurotechnology. In an international team of PhD students from the natural sciences, mathematics, engineering sciences or computer science you will acquire the scientific and methodological skills of our disciplines, while keeping track of the latest findings at the BCF and beyond. Our training offers a solid foundation for an academic or application-oriented career.

Deadline for Application

Applications are welcome throughout the year.

PLACES 15 per year.

TUITION FEE None.

- 16 The integrated MSc/PhD/MD-PhD Program/International Max Planck Research School for Neurosciences is open for candidates with a Bachelor's degree in the natural sciences and related fields. The program is part of the Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences (GGNB) offered by the University of Göttingen, the Max Planck Institutes for Experimental Medicine, for Biophysical Chemistry, for Self-Organization and Dynamics, and the German Primate Center. All courses are taught in English. Scholarships are available.

Career Options for MScs

After the first MSc year BSc graduates may qualify for direct admission to a PhD project without completing a master's thesis (fast track). Alternatively, the PhD phase can be started after a six-month MSc thesis. MSc graduates are invited to directly apply to GGNB.

Career Support for Postdocs

GGNB runs its own Career Service Unit to support postdoctoral researchers and late-stage doctoral students.

Contact Information

COORDINATOR Prof. Dr. Michael Hörner
E-MAIL gpneuro@gwdg.de
WEB www.gpneuro.uni-goettingen.de,
 www.ggnb.uni-goettingen.de

Focus

Successful applicants with a BSc degree participate in a multidisciplinary, research-oriented program. Throughout the first MSc year a comprehensive lecture series covers relevant fields in molecular, cellular, behavioral, theoretical and clinical neurosciences. Class members carry out three research projects of two months each. Special emphasis is put on individual advice and intensive training in small groups.

The transition to the three-year PhD period can either be direct via the fast track (no MSc thesis) or after completing a six-month master's thesis, leading to a MSc degree. Throughout the dissertation advanced methods courses, professional skills training, and funding for participation in international conferences are provided.

Graduates holding a MSc degree can directly apply for PhD positions in the Graduate School GGNB.

Deadlines for Application

For BSc degree holders: 15 January.

For MSc degree holders: no deadline in GGNB.

PLACES IN MSc/PHD CLASS 20 per year.

SCHOLARSHIPS IN MSc/PHD CLASS
20 per year.

TUITION FEE None.

The Interdisciplinary Center for Neurosciences (IZN) of the University Heidelberg is one of the largest Neuroscience Centers in Germany with more than 60 research groups working in all areas of neurosciences, from molecules to the clinic and part of the Excellence Cluster CellNetworks. It offers an interdisciplinary Major of Neurosciences within the Master's Program of Molecular Biosciences. The International Graduate Program of the IZN is also centered at the Faculty of Biosciences and forms an umbrella for several specialized graduate programs of our collaborative research centers.

Career options for medical students

Medical students aiming at a research career can apply to the MD/PhD-Program of the Faculties of Biosciences and Medicine.

Career options for postdocs

Career Service of the University.

Contact Information

COORDINATOR PHD PROGRAM Dr. Otto Bräunling

E-MAIL Braeunling@nbio.uni-heidelberg.de

COORDINATOR MSC PROGRAM Dr. Victor Winter

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WEB www.uni-heidelberg.de/izn/

Focus

Apart from our classical strengths in molecular, cellular, systems and translational neurosciences, current research topics are centered around our collaborative research centers: SFB 1134 (neuronal ensembles), SFB 1158 (acute and chronic pain), FOR 2289 (neuroinflammation and neurodegeneration in MS), BCCN (information processing in psychiatric conditions).

Other hallmarks are:

- access to high-end technology platforms
- weekly neuroscience lecture series
- wide range of training courses
- TACs ensure high quality mentoring
- BrainAid-IZN-Master's Award, IZN-PhD-Poster Award, IZN/CHS Young Investigator Neuroscience Award
- cooperation with the Hoffmann-Berling International Graduate School (HBIGS)

Deadlines for Application:

MSc: 15 March, PhD: open, MD/PhD: 31 May.

PLACES MSc: 35 per year, PhD: open, MD/PhD: 6 per year.

TUITION FEES FOR MSC-STUDENTS

No tuition for EU students, €1,500/semester for non-EU students.

- 18 The IMPRS NeuroCom at the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, offers a three-year graduate program for international PhD students in the multidisciplinary field of cognitive neuroscience. The school focuses on the behavioral and neural foundations of communication, including developmental and clinical aspects, and corresponding brain plasticity.

The graduate program was founded in July 2009, the teaching and supervision language is English. The interdisciplinary nature of the school is reflected in the diverse backgrounds of its faculty and students.

Career Support for Doctoral Students

Soft skills courses on career development, grant proposal writing, presenting, and networking; thesis advisory committee for each student; international office; family support (advice about child care possibilities, financial support); financial support to attend international conferences and workshops; research stays at other university-level institutions.

Contact Information

CHAIR Prof. Dr. Arno Villringer

COORDINATOR Dr. Veronika Kriehoff

E-MAIL imprs-neurocom@cbs.mpg.de

WEB imprs-neurocom.mpg.de/main.html

Focus

Research and teaching within the school is organized in four major modules:

- Verbal Communication: Language
- Social, cognitive, and affective neuroscience
- Neuroscience: Basic and clinical
- Neuroimaging physics and signal processing

Teaching and education consist of basic and advanced courses, scientific workshops, soft skills courses, and annual summer schools jointly organised with the University College London (UCL). In addition to teaching, the strong methodological focus of the school draws on the presence of all major neuroimaging techniques at the institute as well as some cutting edge equipment, such as:

- 3T and 7T MRI
- PET-MRI
- Simultaneous EEG-MRI
- TMS-MRI
- TDCS-MRI

Deadline for Application

1 December.

PLACES 15–20 per year.

SCHOLARSHIPS 5 per year.

TUITION FEE None.

The MD-PhD/PhD Program of “Translational Biomedicine” at the Johannes Gutenberg University in Mainz is a structured training program, which combines biomedical and translational research with clinical training elements. Whereas medical graduates typically face the problem of simultaneously acquiring research skills and dealing with clinical obligations, natural science graduates need to gain insight into relevant unmet medical needs and to obtain access to patient material.

A central purpose of our program is to develop young medical graduates and natural science graduates with an aim to enabling them to become future leaders in the field of biomedical neuroscience, both in academia as well as in the pharmaceutical industry.

Career Options for MScs

Scientific career, jobs in modern clinical diagnostics and biomedical research laboratories e.g. in the pharmaceutical industry.

Contact Information

CHAIR (SECTION NEUROSCIENCE)

Prof. Dr. Thomas Mittmann

COORDINATOR (SECTION NEUROSCIENCE)

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www.rm2.de

MD-PhD Program in Translational Biomedicine, Neuroscience for Medical Graduates

The program offers an integrated training curriculum for medical graduates interconnected with clinical training/residency in the specialist disciplines.

PhD Program in Translational Biomedicine, Neuroscience for Natural Science Graduates

The program offers an integrated training curriculum for natural science graduates.

Focus

The core curriculum in neuroscience, which is open to all students in Mainz and Frankfurt of this teaching program, is offered by the Focus Program Translational Neuroscience (FTN) and the Rhine-Main-Neuroscience Network (rmn2). The program covers a broad range of approaches to study the molecular, cellular, developmental, structural, functional, evolutionary, computational, and medical-clinical aspects of the nervous system.

Deadline for Application

MSc 15 May, PhD throughout the year.

PLACES 15 per year (PhD, MD-PhDs and MSc).

SCHOLARSHIPS 3–5 per year (PhD and MD-PhDs).

TUITION FEE None.

- 20 How does the brain work? Significant progress has been made in the fields of cellular and molecular neuroscience, and modern in vivo techniques have revolutionized non-invasive observation of brain activity even in humans. Today's challenges lie in understanding the brain as a complex functioning system and many problems remain to be solved. Our program strives to educate a new generation of neuroscientists through an integrated program of study, taking students from their bachelor to a master's or doctoral degree.

Career Options for MScs

Academic career path, industry positions, medical applications, and consulting.

Career Support for Postdocs

Under the umbrella of the Munich Center for Neurosciences – Brain & Mind, we have various established entities to offer support for local postdoc positions and a developed international network including the Queensland Brain Institute and the Harvard Center for Brain Science.

Contact Information

CHAIR Prof. Dr. Benedikt Grothe

COORDINATOR Ms Lena Bittl

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WEB www.gsn.lmu.de

Focus

With an excellent understanding of the molecular, cellular and systemic principles of neurobiology, our students acquire a deeper knowledge of neuron–neuron interaction, the dynamics of neuron–glia interaction, rules of information transfer in simple and complex circuits of single brain centers, interaction of different brain centers, and the function of the human brain. We offer foci in the neuroscience fields of:

- Behavior & cognition
- Biomedical neuroscience
- Cellular & systems neuroscience
- Molecular & developmental neuroscience
- Neurophilosophy
- Theoretical neuroscience & technical application

Deadline for Application

MSc/PhD: 15 February.

PLACES Varies annually.

SCHOLARSHIPS The number varies annually, please see our website for further information.

TUITION FEE None.

Both graduate programs provide research-oriented and international in-depth training in neurosciences. They aim to recruit students with a variety of different BSc/MSc degrees. The programs are uniquely focussed on sensory neuroscience, building on locally established research strengths (e.g., Cluster of Excellence “Hearing4All”, Research Centre “Neurosensory Sciences”). They integrate basic biological research with clinical and applied research on sensory processes.

Career Options for MScs

Focus on sensory neuroscience qualifies for positions in research, industry, administration and clinics.

Career Support for Postdocs

Mentoring programs of Cluster of Excellence “Hearing4All”; Graduate Academy Carl von Ossietzky University; excellent support for families.

Contact Information

CHAIRS Prof. Dr. Jutta Kretzberg (MSc), Prof. Dr. Georg Klump (PhD)

E-MAIL master-neuroscience@uni-oldenburg.de (MSc), oltech@uni-oldenburg.de (PhD)

WEB www.uol.de/en/master-neuroscience, www.uol.de/en/oltech

Focus

- Clear focus: Sensory systems
- Levels: From molecule to behaviour
- Broad scope of methods: Molecular genetics, systems physiology and behaviour, mathematical modelling, modern imaging techniques
- Hands-on and personal: Most courses include lab time or exercises. Individual projects in research groups
- Intensive: Block course structure allows to focus on one topic at a time
- Specific Skills Modules enhance broader scientific education
- International: All courses taught in English; a semester abroad is possible
- Interdisciplinary: Teachers and students with mixed backgrounds, joint courses with Biology and Psychology
- Fast track option allows streamlined transition into PhD
- Career perspectives in Oldenburg: Graduate school, Cluster of Excellence and more

Deadline for Application

MSc: 31 May, international students 31 March; MSc/PhD fast track: 1 March; PhD applications are welcome anytime.

PLACES Up to 25 MSc per year.

TUITION FEE None.

- 22 The GTC organizes international neuroscience degree programs, which offer a comprehensive theoretical and practical training under the guidance of leading neuroscientists. In addition to three master programs, the GTC provides a doctoral program with supplementary neuroscience and soft-skills training, summer schools and visits to conferences. The individual graduate programs have their specific scientific foci and complement one another optimally. Together they provide a markedly broad spectrum of neuroscience research and training opportunities, which has made Tübingen a prime location for graduate students interested in any one of the many aspects of neuroscience. Teaching is entirely in English.

Career Options for MScs

The GTC offers three MSc-degree programs (starting annually in the winter term), which provide the ideal preparation for a subsequent doctoral dissertation.

Contact Information

CHAIR Prof. Dr. Horst Herbert,

COORDINATOR Dr. Katja Thielges

E-MAIL neuro.office@uni-tuebingen.de

WEB www.neuroschool-tuebingen.de

Deadline for Application

MSc: 15 January;

doctoral positions: no deadline.

PLACES 15 per year for each of the 3 MSc-programs; 25 doctoral positions per year on average.

Focus

The three graduate programs include:

1. 'Neural & Behavioral Sciences': systems and cognitive neuroscience, neurophysiology, neuropsychology and brain imaging techniques.
2. 'Cellular & Molecular Neuroscience': genetic, molecular and cellular processes of neurodegenerative diseases and state-of-the-art molecular imaging techniques.
3. 'Neural Information Processing': theoretical and computational neuroscience, modeling of neuronal processes, BCI, neuroprosthetics and machine learning.

In Tübingen, interdisciplinary neuroscience research is performed at various university and extra-university institutions. The GTC/IMPRS is an integral part of these institutions and, thus, can take full advantage of the lively research community and the state-of-the-art facilities for theoretical and practical training of their students.

SCHOLARSHIPS 15 per year for international students of MSc-programs; doctoral positions are generally project-funded.

TUITION FEE Students from outside the EU are required to pay a tuition fee of €1,500/semester for the MSc programs

The MSc program MTN is conducted by the institutes of preclinical and clinical medicine as well as the natural science faculty as an interdisciplinary degree program under the umbrella of the Neurocenter of Ulm University. The degree program is closely related to neighboring areas such as neurology, pharmacology, molecular medicine, psychiatry, biochemistry and biology with collaborating partners such as the DZNE as part of the virtual Helmholtz Institute, as well as industry partners (such as Boehringer Ingelheim, Rentschler Biotechnologie, Teva).

Career Options for MScs

Graduate students may conduct PhD projects in the Graduate School of Molecular Medicine at Ulm University and in many working groups at Ulm University and other universities. Apart from an academic career path, other options could be industry positions, consulting, patent law and medical applications.

Contact Information

CHAIR Prof. Dr. Leda Dimou

COORDINATOR Ms Julia Solar

E-MAIL mtn@uni-ulm.de

WEB www.uni-ulm.de/mtn

Deadline for Application

15 April.

PLACES 20 per year.

TUITION FEE No tuition for EU students, €1,500/semester for non-EU students.

Focus

The aim of the MSc Program is to provide a qualified training in the field of research oriented neurosciences with regard to their clinical applications.

- Exploring the molecular mechanisms of brain disorders
- Research with the aim of testing innovative therapies
- Investigating molecular neurobiological issues with bridge between cellular and pharmacological basic research, molecular neurobiology, behavioral physiology, diagnostics, and pharmacological applications

The participation of institutes from the medical faculty, faculty of natural sciences, and industrial partners to show the practical side of interactions between basic research and therapeutics development result in several study modules spanning topics from a broad overview in translational neuroscience to specific contents and detailed insights.

Graduates of the program are qualified for a variety of attractive activities in biomedical research institutes and are sought among the established pharmaceutical companies such as Boehringer Ingelheim.

PARTICIPATING INSTITUTIONS

24 BERLIN

Berlin School of Mind and Brain

Humboldt-Universität zu Berlin
(host university)

Charité – Universitätsmedizin Berlin

Freie Universität Berlin

Technische Universität Berlin

Otto-von-Guericke-Universität Magdeburg

Universität Potsdam

Universität Leipzig

Max Planck Institute for Human Cognitive
and Brain Sciences, Leipzig

Max Planck Institute for Human Develop-
ment, Berlin

Berlin Neuroimaging Center

Center for General Linguistics (ZAS)

Max Delbrück Center for Molecular Medicine

International Graduate Program Computational Neuroscience

Bernstein Center for Computational Neuro-
science Berlin (BCCN Berlin)

Charité – Universitätsmedizin Berlin

Freie Universität Berlin

Humboldt-Universität zu Berlin

Technische Universität Berlin

International Graduate Program Medical Neurosciences

Charité – Universitätsmedizin Berlin

NeuroCure

Master Program Social, Cognitive, and Affective Neuroscience

Freie Universität Berlin

BIELEFELD

MSc/PhD Program “Behaviour: From Neural Mechanisms to Evolution”

Bielefeld University, Faculty of Biology

Cognitive Interaction Technology (CITEC)

BOCHUM

International Graduate School of Neuro- science

Ruhr-Universität Bochum

BONN

International Max Planck Research School (IMPRS) for Brain and Behavior

Center of Advanced European Studies and
Research in the Max Planck Association

Florida Atlantic University, College of Science

Max Planck Florida Institute for Neuroscience

Rheinische Friedrich-Wilhelms University
Bonn, Medical Faculty

Rheinische Friedrich-Wilhelms University
Bonn, Faculty of Mathematics and Natural
Sciences

Master Program in Neurosciences

Rheinische Friedrich-Wilhelms University
Bonn, Medical Faculty

Rheinische Friedrich-Wilhelms University
Bonn, Faculty of Mathematics and Natural
Sciences

German Centre for Neurodegenerative
Diseases

Center of Advanced European Studies
and Research

German Reference Centre for Ethics in the Life
Sciences

BREMEN

MSc Graduate Program MASTER OF NEURO-SCIENCES

Universität Bremen

Center for Cognitive Sciences (ZKW)
at the University of Bremen

FRANKFURT

International Max Planck Research School (IMPRS) for Neural Circuits

Max Planck Institute for Brain Research

Max Planck Institute of Biophysics

Ernst Strüngmann Institute for Neuroscience

Goethe University

Frankfurt Institute for Advanced Studies

FREIBURG

Interdisciplinary Master Program in Neuroscience

University of Freiburg (Faculties of Biology, Engineering, Economics and Behavioural Sciences)

PhD Program in Computational Neuroscience and Neurotechnology

University of Freiburg (Bernstein Center Freiburg, Faculties of Biology, Engineering, Economics and Sport Sciences, Medicine, and University Medical Center)

GÖTTINGEN

Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences

Georg August University Göttingen
(Faculties Biology, Physics, Medicine)

European Neuroscience Institute

German Primate Center

Max Planck Institute for Biophysical Chemistry

Max Planck Institute for Experimental Medicine

Max Planck Institute for Dynamics and Self-Organization

HEIDELBERG

International Graduate Program of the Interdisciplinary Center for Neurosciences Heidelberg

Ruprecht-Karls-University Heidelberg,
Faculty of Biosciences (host)

Ruprecht-Karls-University Heidelberg,
Faculty of Behavioral and Cultural Studies

Ruprecht-Karls-University Heidelberg,
Medical Faculty

Ruprecht-Karls-University Heidelberg,
Medical Faculty Mannheim

Central Institute for Mental Health (zi),
Mannheim

European Molecular Biology Laboratory
(EMBL), Heidelberg

German Cancer Research Center (DKFZ),
Heidelberg

Hochschule Mannheim, Faculty of Bio-
technology

Max Planck Institute for Medical Research,
Heidelberg

LEIPZIG

International Max Planck Research School on Neuroscience of Communication (IMPRS NEUROCOM)

Max Planck Institute for Human Cognitive
and Brain Sciences, Leipzig

University of Leipzig

Max Planck Institute for Evolutionary
Anthropology, Leipzig

Institute of Cognitive Neuroscience at Uni-
versity College London, UK

MAINZ / FRANKFURT

Research School "Translational Biomedicine", Section Neurosciences

University Medical Center of the Johannes-
Gutenberg University Mainz

Neuroimaging Center, Mainz

Johannes-Gutenberg University Mainz
Institute of Molecular Biology, Mainz

Max-Planck Institute for Brain Research,
Frankfurt
Neuroscience Center of the Goethe-University,
Frankfurt
Interdisciplinary Center for Neuroscience
Frankfurt
Neuronale Koordination Forschungs-
schwerpunkt Frankfurt
Brain-Imaging Center, Frankfurt
Ernst-Strüngmann Institute for Neuroscience,
Frankfurt
Frankfurt Institute for Advanced Studies

MÜNCHEN

Graduate School of Systemic Neurosciences

Adolf Butenandt Institute (ABI)
Bernstein Center for Computational Neuro-
science (BCCN) Munich
Center For Integrated Protein Science Munich
(CIPSUM)
Collaborative Research Center (CRC/SFB)
870: Assembly and Function of Neuronal
Circuits in Sensory Processing
Deutsches Zentrum für Neurodegenerative
Erkrankungen in der Helmholtz-Gemeinschaft
(DZNE)
Helmholz Zentrum München
Integrated Center for Research and Treatment
of Vertigo, Balance and Ocular Motor Dis-
orders (IFB-LMU)
Ludwig-Maximilians-Universität München
(LMU Munich)
Max Planck Institute (MPI) of Neurobiology
Max Planck Institute (MPI) for Ornithology
Max Planck Institute (MPI) of Psychiatry
Munich Center for Neurosciences – Brain &
Mind
Munich Competence Center for Ethics
Neurophilosophy and Ethics of Neuro-
sciences Research Center
Technische Universität München (TUM)

OLDENBURG

Master Program in Neuroscience

Carl von Ossietzky University, Oldenburg

TÜBINGEN

Graduate Training Centre of Neuroscience International Max Planck Research School

Bernstein Centre for Computational Neuro-
science – Tübingen
Centre for Integrative Neuroscience
Centre for Neurosensory Systems
German Centre for Neurodegenerative
Diseases – Tübingen
Hertie-Institute for Clinical Brain Research
Max-Planck-Institute for Biological Cyber-
netics
Natural & Medical Sciences Institute
at the University of Tübingen

ULM

MSc Program “Molecular and Translational Neuroscience (MTN)”

University Ulm
Neurocenter of Ulm University
Boehringer Ingelheim

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The graduate schools quoted in this brochure are responsible for the content of their profiles.



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