

PhD-Programme

“Auditory Sciences: Physics and Engineering, Physiology and Therapy of Hearing” SuSe2018

For further information and registration please contact (if not noted elsewhere):

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Obligatory courses:

red: obligatory courses for all students; black: electives for UOL and LUH, obligatory for MHH

Title	Course organiser	Credit	Time and place
1.1 Clinic, Diagnostic and Therapy of Peripheral and Central Hearing Disorders	Prof. Thomas Lenarz	25 hours 3 CP	MHH building K6, node B, 6 th floor, seminar room S66 On request
1.2 Audiology and Physics of Hearing	Prof. Hannes Maier	10 hours 1 CP	MHH NIFE, M20-01-1140 05.04.-06.04.2018
1.3 Sensory Neuroscience	Prof. Andrej Kral	25 hours 3 CP	MHH NIFE, M20-01-1140 On request
1.4 Imaging Methods in Medicine	Prof.'in Lilli Geworski	25 hours 3 CP	MHH building K7, floor S0, seminar room 1321 Participants: 5-20 students On request
1.5 Psychophysical Methods in Hearing Research	Prof. Andreas Büchner	10 hours 1 CP	MHH Seminar room “DHZ”, Hannover On request
1.6 Introduction to Biomaterials, Laser Spectroscopy and Microelectronics	Prof. Peter Behrens Prof. Andreas Heisterkamp Prof. Holger Blume	25 hours 3 CP	LUH On request
1.7 Fundamentals of Auditory Physiology	Prof.'in Christine Köppl Prof. Georg Klump	30 hours 3 CP	UOL 28.05.-01.06.18 Registration until: 27.04.18
1.8 Summer School and Internal Retreat	N.N.	20 hours 2 CP	26.-28.06.2018 Location: Hotel Park Soltau, Soltau

Elective courses at MHH:

2.1 Nanotechnology in Medicine	Prof. Theo Doll	12 hours 1 CP	MHH NIFE, On request
2.2 Sound Coding Strategies and Signal Processing Methods for Cochlear Implants and Hearing Aids	Jun.-Prof. Waldo Nogueira	15 hours 1.5 CP	MHH NogueiraVazquez.Waldo@mh-hannover.de On request
2.3 Neural Signal Processing	Jun.-Prof. Waldo Nogueira	15 hours 1.5 CP	MHH NogueiraVazquez.Waldo@mh-hannover.de On request
2.4 Biomedical Technology	PD Dr. Omid Majdani	10 hours 1 CP	MHH On request
2.5 Medical Image Processing for Medical Applications	PD Dr. Omid Majdani Thomas Rau Georg-Jakob Lexow	12 hours 1-1.5 CP	MHH On request lexow.jakob@mh-hannover.de
2.6 Modulation of Basal Ganglia Activity in Movement Disorders by Functional Neurosurgery	Prof. Joachim Krauss	1.5 hours	MHH building K6, node B, 05 th floor, seminar room 65 krauss.joachim@mh-hannover.de
2.7 Animal Models for Psychiatric Disorders	Prof.'in Kerstin Schwabe	1.5 hours	MHH building K6, node B, 05 th floor, seminar room 65 schwabe.kerstin@mh-hannover.de
2.8 Auditory Plasticity	Prof. Andrej Kral	25 hours 3 CP	MHH, NIFE On request
2.9 Scientific Writing	Prof. Andrej Kral	30 hours 3 CP	MHH NIFE On request
2.10 Statistical Approaches in Auditory Sciences	Prof. Andrej Kral, Dr. Wiebke Konerding	10 hours 1 CP	MHH NIFE M20-01-1140 On request
2.11 Lab Meeting Otolaryngology	N.N.	1 hour / meeting	MHH NIFE, M20-S0-2520, Wednesdays 5-6pm
2.12 Journal Club (Neuroscientific Studies on Humans)	N.N.	2 hours / meeting	MHH, building K5, node B, 3 rd floor, seminar room 63, last Wednesday of the

			month 11am-1pm
2.13 Hearing(4all) Research Seminar	N.N.	1 hour / meeting	MHH Wednesdays every second month; 5 - 6pm; Place: tba Contact : baumhoff.christine@mhh-hannover.de
2.14 Colloquium Medical Physics	Prof.'in Lilli Geworski	1 hour / meeting	MHH, building K7, floor S0, seminar room 1321 Every second Tuesday 3 - 4pm, Registration required
2.15 Lunchseminar Radiology	Prof.'in Lilli Geworski	1 hour / meeting	MHH Radiology Wednesdays, 12am - 1pm Registration required
2.16 Colloquium Radiology	Prof.'in Lilli Geworski	1 hour / meeting	MHH Radiology Tuesdays 08:15 - 09:00am Registration required
2.17 HNO-Meeting	Prof.'in Lilli Geworski	1 hour / meeting	MHH Neuroradiology Date per request Registration required
2.18 Audio Signal Processing for Cochlear Implants and Hearing Aids in Python	Jun.-Prof. Waldo Nogueira	15h/2 CP	MHH, NIFE On request

Elective courses at the University of Veterinary Medicine Hannover, Foundation:

2.19 Neurobiology of Acoustic Communication and Orientation	Prof.'in Elke Zimmermann PD Dr. Sabine Schmidt	25 hours 3 CP	TiHo, Bünteweg 17, jasmin.ouakidi@tiho-hannover.de participants: 4-8 students
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Elective courses at LUH:

<p>2.20 Basics of Digital Systems</p>	<p>Prof. Holger Blume</p>	<p>12 hours 1 CP</p>	<p>LUH / IMS Seminar room 335 Appelstr. 4, 3rd floor Hannover</p> <p>On request 10am - 1pm, 2pm - 5pm (each day)</p>
<p>2.21 Application-Specific Instruction-Set Processors for Hearing Aid Systems</p>	<p>Jun.-Prof. Guillermo Payá Vayá</p>	<p>12 hours 1 CP</p>	<p>LUH / IMS Seminar room 335 Appelstr. 4, 3rd floor Hannover</p> <p>On request 10am - 1pm, 2pm - 5pm (each day)</p>
<p>2.22 Principles of Signal Processing in MATLAB</p>	<p>Jun.-Prof. Guillermo Payá Vayá</p>	<p>12 hours 1 CP</p>	<p>LUH / IMS Seminar room 335 Appelstr. 4, 3rd floor Hannover</p> <p>On request 10am - 1pm, 2pm - 5pm (each day)</p>

Elective courses at UOL:

2.23 Einführung in die Sprachverarbeitung	Dr. Bernd Meyer	25 hours 3 CP	UOL Weekly Wednesday 2-4pm W32 1-113
2.24 Aktuelle Probleme der Akustik, Signalverarbeitung und Medizinischen Physik	Dr. Jörn Anemüller Prof. Simon Doclo Prof. Volker Hohmann Prof. Birger Kollmeier Prof. Björn Poppe Dr. Stefan Uppenkamp Prof. Steven van de Par	25 hours 3 CP	UOL Weekly Tuesday 2-4pm W02 1-148
2.25 Oberseminar Signal- und Sprachverarbeitung	Prof. Simon Doclo	25 hours 3 CP	UOL Weekly Monday 10am-12pm
2.26 Machine Listening, Machine Vision and Models of Sensory Neuroscience	Dr. Jörn Anemüller Prof. Jörg Lücke	25 hours 3 CP	UOL Weekly Thursday 12-2pm W32 1-113
2.27 Digital Signal Processing	Prof. Simon Doclo	50 hours 6 CP	Weekly Monday 4-6pm & Wednesday 12-2pm W32 1-112
2.28 Oberseminar Medizinische Physik	Dr. Stefan Uppenkamp Prof. Volker Hohmann, Dr. Thomas Brand	25 hours 3 CP	UOL Weekly Tuesday 10am-12pm W32 1-112
2.29 Ausgewählte Probleme der Hörtechnik und Audiologie	Dr. Thomas Brand	25 hours 3 CP	UOL Weekly Monday 8am-10am W02 1-156
2.30 Current Topics in Machine Learning and its Applications	Prof. Jörg Lücke	25 hours 3 CP	UOL Weekly Wednesday 2-4pm W02 1-162

Combined electives:

2.31 Combined Hot Topic Seminar (Web Conference)	Dr. Christine Baumhoff Dr. Mark Pottek	2 h / seminar	Dates: 25.05.2018 10-11am
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