

Courses IKW Summer Term 2025 (State: Jan 31, 2025)

No.	Name	Courses type	Workgroup	Lecturers	SWS	ECTS	Modules PO2019/20 (BSc.)	Modules PO2019/20 (MSc.)	Modules PO2024 (BSc.)	Modules PO2024 (MSc.)
8.30101	Introduction to Artificial Intelligence (CS-BP-AI, PO19/20; CS24-BP-CAS, PO24)	Vorlesung und Übung	Artificial Intelligence	Dr. phil. Tobias Thelen	4	8	CS-BP-AI	CS-MW	CS-BP-CAS	CS24-MW
8.30104	Beyond bias: Investigating the reproduction of discriminatory language in machine translations	Seminar	Artificial Intelligence	M. Sc. Sabrina Frohn	2	4	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30103	Computational Creativity in Natural Language Processing	Seminar	Artificial Intelligence	Nohayr Muhammad Abdelmoneim, M. Sc.	2	4	CS-BWP-AI, CS-BWP-CL	CS-MWP-AI, CS-MWP-CL	CS24-BWP-CL-x	CS24-MWP-CL-x
8.30102	Formal models for analyzing and creating music (CS-BWP-AI, CS-MWP-AI, CS24-BWP-AI-x, CS24-MWP-AI-x)	Seminar	Artificial Intelligence	Prof. Dr. phil. Kai-Uwe Kühnberger	2	4	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30202	Lisa Feldman-Barrett: Seven And A Half Lessons About The Brain	Seminar	Cognitive Modelling	Dr. phil. habil. Annette Hohenberger	2	4	CS-BWP-CNP	CS-MWP-CNP	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.30203	Psycholinguistics: Language Processing and Production	Seminar	Cognitive Modelling	Dr. phil. habil. Annette Hohenberger	3	6	CS-BWP-CNP, CS-BWP-CL	CS-MWP-CNP, CS-MWP-CL	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.302012	Advanced Introduction to Cognitive (Neuro-)Psychology (CS24-BWP-CMP-x, PO24)	Lecture	Cognitive Modelling	Dr. phil. habil. Annette Hohenberger	2	4	/	/	CS24-BWP-CMP-x	CS24-MW
8.30201	Introduction to Cognitive (Neuro-)Psychology (CS-BP-CNP, PO19/20)	Lecture	Cognitive Modelling	Dr. phil. habil. Annette Hohenberger	4	8	CS-BP-CNP	CS-MW	/	/
8.302011	Introduction to Cognitive (Neuro-)Psychology (CS24-BP-CBS, PO24)	Lecture	Cognitive Modelling	Dr. phil. habil. Annette Hohenberger	2	4	/	/	CS24-BP-CBS	CS24-MW
8.30301	Language and Communication Colloquium	Seminar	Comparative Biocognition	Prof. Dr. phil. Nicole Gotzner, Dr. phil. habil. Annette Hohenberger, Prof. Dr. rer. nat. Simone Pika	1	2	CS-BW	CS-MW	CS24-BW	CS24-MW
8.30302	Primate Communications	Seminar	Comparative Biocognition	Prof. Dr. rer. nat. Simone Pika	2	4	CS-BWP-CNP	CS-MWP-CNP	CS24-BWP-CBC-x	CS24-MWP-CBC-x
8.30303	What's new in Animal cognition	Seminar	Comparative Biocognition	Pharisméne Tibesar, M. Sc.	2	4	CS-BWP-CNP	CS-MWP-CNP	CS24-BWP-CBC-x	CS24-MWP-CBC-x
8.30401	Automated Scientific Discovery	Vorlesung und Übung	Computational Neuroscience	Sebastian Musslick	4	8	/	CS-MWP-NS	/	CS24-MWP-CNS-x
8.30403	Study Project: LLMs for Science (Part II)	Studienprojekt	Computational Neuroscience	Sebastian Musslick	6	12	/	CS-MP-SP	/	CS24-MP-SP, CC24-MP-SP
8.30402	Basic Programming in Python	Practical training	Computational Neuroscience	Daniel Weinhardt	2	4	CS-BWP-MCS, CS-BW	CS-MW	CS24-BW	CS24-MW
8.30503	Deep Learning for Music Processing	Seminar	Computer Vision	Ulf Krumnack, Ph.D.	2	4	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30504	Reading Club: Homotopy Type Theory	Seminar	Computer Vision	Ulf Krumnack, Ph.D., Robin Rawiel	2	4	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30505	Understanding Deep Learning	Seminar	Computer Vision	Lukas Niehaus	2	4	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30603	Advanced writing methodology in ethics and critical philosophy of AI	Seminar	Ethics of AI	Prof. Dr. Rainer Mühthoff, Nora Freya Lindemann, M. Sc.	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.30604	Research Seminar Ethics and Critical Theories of Artificial Intelligence	Seminar	Ethics of AI	Prof. Dr. Rainer Mühthoff	3	4	/	CS-MWP-PHIL	/	CS24-MWP-EAI-x
8.30601	Introduction to the Ethics of Artificial Intelligence (CS-BWP-PHIL, PO19/20; CS24-BP-EAI, PO24)	Lecture	Ethics of AI	Prof. Dr. Rainer Mühthoff	2	4	CS-BWP-PHIL	CS-MW	CS24-BP-EAI	CS24-MW
8.30602	Introduction to the Ethics of AI - Discussion Groups (CS-BWP-PHIL, PO19/20; CS24-BWP-EAI-x, PO24)	Exercises	Ethics of AI	Prof. Dr. Rainer Mühthoff	2	4	CS-BWP-PHIL	CS-MW	CS24-BWP-EAI-x	CS24-MW
8.30605	Critical Theory, Fascism & Masculinity	Blockseminar	Ethics of AI	Paul Schütze	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.30001	Schlaf ist die beste Medizin?	Seminar	LE Cognitive Science	Dr. Cornelius Bachmann, Dr. Christina Dirks	2	4	CS-BWP-CNP	CS-MWP-CNP	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.30701	Projects at the intersection of neuroscience and machine learning	Seminar	Machine Learning	M. Sc. Philip Sulewski, Prof. Dr. rer. nat. Tim Christian Kietzmann	4	8	/	CS-MWP-AI, CS-MWP-NI, CS-MWP-CNP, CS-MWP-NS, CS-MP-IC	/	CS24-MWP-NAI-x
8.30702	Reading group on natural and artificial reinforcement learning	Seminar	Machine Learning	Dr. Sushrut Thorat, Rowan Sommers, M. Sc., Prof. Dr. rer. nat. Tim Christian Kietzmann	2	4	CS-BWP-NS	CS-MWP-NS	CS24-BWP-NAI-x	CS24-MWP-NAI-x
8.30703	The eyes have it - Active vision as a window to mind & brain	Seminar	Machine Learning	M. Sc. Philip Sulewski, Prof. Dr. rer. nat. Tim Christian Kietzmann	2	4	CS-BWP-AI	CS-MWP-AI, CS-MP-IC	CS24-BWP-NAI-x	CS24-MWP-NAI-x
8.30704	Topics in Cognitive Neuroscience	Seminar	Machine Learning	Dr. Sushrut Thorat, Rowan Sommers, M. Sc., Prof. Dr. rer. nat. Tim Christian Kietzmann	2	4	CS-BWP-NS	CS-MWP-NS	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.30801	Introduction to Computational Linguistics (CS-BP-CL, PO19/20; CS24-BP-CAS, PO24)	Vorlesung und Übung	Natural Language Processing	Prof. Dr. Elia Bruni	4	8	CS-BP-CL	CS-MW	CS24-BP-CAS	CS24-MW
8.30804	Study Project: EBIMAS: Emergent behaviors in a multi-agent system with reinforcement learning (Part VI)	Studienprojekt	Natural Language Processing	Prof. Dr. Elia Bruni, Julius Mayer, M. Sc.	6	12	/	CS-MP-SP	/	CS24-MP-SP, CC24-MP-SP
8.30806	Study Project: Exploring Physical Understanding in LLMs (Part II)	Studienprojekt	Natural Language Processing	Prof. Dr. Elia Bruni, Serwan Jassim	6	12	/	CS-MP-SP	/	CS24-MP-SP, CC24-MP-SP
8.30805	Begleitseminar zum Studienprojekt EBIMAS: Emergent behaviors in a multi-agent system with reinforcement learning (Part VI)	Seminar	Natural Language Processing	Prof. Dr. Elia Bruni, Julius Mayer, M. Sc.	3	6	/	CS-MP-IC	/	CS24-MWP-CL-x
8.30807	Foundations of Machine Learning: Theory and Practice	Seminar	Natural Language Processing	Prof. Dr. Elia Bruni	2	4	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30803	Building GPT from scratch	Blockseminar	Natural Language Processing	Prof. Dr. Elia Bruni, Serwan Jassim	4	8	CS-BWP-AI	CS-MWP-AI	CS24-BWP-AI-x	CS24-MWP-AI-x
8.30802	Foundations of Mathematics for Deep Learning	Blockseminar	Natural Language Processing	Prof. Dr. Elia Bruni, Serwan Jassim	4	8	CS-BWP-MCS, CS-BW	CS-MW	CS24-BW	CS24-MW
8.30905	Study Project: Dyadic eye tracking in virtual reality to investigate visual interaction (Part IV)	Studienprojekt	Neurobiopsychology	Tracy Sanchez Pacheco, Debora Nolte, M. Sc., Jasmin Walter, M. Sc.	6	12	/	CS-MP-SP	/	CS24-MP-SP, CC24-MP-SP
8.30907	Study Project: Spatial Navigation supported by AI (Part III)	Studienprojekt	Neurobiopsychology	Prof. Dr. med. Peter König	6	12	/	CS-MP-SP	/	CS24-MP-SP, CC24-MP-SP
8.30901	Action & Cognition (Visual System)	Seminar	Neurobiopsychology	Prof. Dr. med. Peter König, Vincent Schmidt, M. Sc.	2	4	CS-BWP-NS	CS-MWP-NS	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.30906	Begleitseminar zum Study Project: Dyadic eye tracking in virtual reality to investigate visual interaction (Part IV)	Seminar	Neurobiopsychology	Debora Nolte, M. Sc., Tracy Sanchez Pacheco	3	6	/	CS-MP-IC	/	CS24-MWP-CNS-x
8.30908	Begleitseminar zum Study Project: Spatial Navigation supported by AI (Part III)	Seminar	Neurobiopsychology	Prof. Dr. med. Peter König	3	6	/	CS-MP-IC	/	CS24-MWP-CNS-x
8.30904	Quest (Independent Study Course)	Practical training	Neurobiopsychology	Prof. Dr. med. Peter König, Vincent Schmidt, M. Sc.	2	4	CS-BWP-NS	CS-MWP-NS, CS-MP-IC	CS24-BWP-CNS-x	CS24-MWP-CNS-x

8.30902	Action & Cognition Higher Cognitive Functions	Lecture	Neurobiopsychology	Prof. Dr. med. Peter König, Vincent Schmidt, M. Sc.	2	4	CS-BWP-NS	CS-MWP-NS	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.30903	From Zero to Data Analysis: Eye-Tracking and LMM in R	Blockseminar	Neurobiopsychology	Tracy Sanchez Pacheco, Debora Nolte, M. Sc.	2	4	CS-BWP-MCS, CS-BW	CS-MP-IC	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.30909	Systematic Reviews and Meta-Analyses in Cognitive Science	Blockseminar	Neurobiopsychology	Aitana Grasso-Cladera, Prof. Dr. med. Peter König	2	4	CS-BWP-NS, CS-BWP-MCS	CS-MWP-NS	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.31301	Neural Information Processing (Lecture + Practice)	Lecture	Neurocomputation	Prof. Dr. Pascal Nieters	4	8	CS-BWP-NI	CS-MWP-NI	CS24-BWP-NI-x	CS24-MWP-NI-x
8.31003	Study Project: DreamGuard: A Web Application for restful Nights (Part 3)	Studienprojekt	Neuroinformatics	Prof. Dr. Gordon Pipa, M. Sc. Katharina Lüth	6	12	/	CS-MP-SP	/	CS24-MP-SP, CC24-MP-SP
8.31004	Begleitseminar zum Studienprojekt: DreamGuard: A Web Application for restful Nights (Part III)	Seminar	Neuroinformatics	Prof. Dr. Gordon Pipa, M. Sc. Katharina Lüth	3	6	/	CS-MP-IC	/	CS24-MWP-AI-x
8.31002	Hackathon on Spiking Neural Networks (Block course)	Blockübung	Neuroinformatics	M. Sc. Viktoria Zemliak	2	4	CS-BWP-NI	CS-MWP-NI	CS24-BWP-NI-x	CS24-MWP-NI-x
8.31001	Introduction to sleep and dreams [Blockseminar]	Blockseminar	Neuroinformatics	Prof. Dr. Gordon Pipa, M. Sc. Katharina Lüth	2	4	CS-BWP-NI, CS-BWP-CNP	CS-MWP-NI, CS-MWP-CNP	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.31110	Study Project: Digital Realities: Its Vices and Virtues (Part II)	Studienprojekt	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter	6	12	/	CS-MP-SP	/	CS24-MP-SP
8.31111	Study Project: Emotional Experience in Asexuality: Interdisciplinary Perspectives (Part II)	Studienprojekt	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter	6	12	/	CS-MP-SP	/	CS24-MP-SP
8.31105	A (Not So) Short History of Thinking (Part I): Conceptions of the Mind in Ancient Greek Philosophy	Seminar	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.31103	Anleitung zum wissenschaftlichen Arbeiten	Seminar	Philosophy of Mind and Cognition	Priv.Doz. Dr. phil. Uwe Meyer	3	6	CS-BWP-MCS (4 ECTS), CS-BW	CS-MW	CS24-BW	CS24-MW
8.31104	Cognition and Technology (Intensive Course)	Seminar	Philosophy of Mind and Cognition	Louis Loock, M. Sc.	3	6	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.31114	Epistemic Injustice: Knowledge, Power, and the Ethics of Belief	Seminar	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.31106	From LLMs and social networks to autonomous drones and smart cities	Seminar	Philosophy of Mind and Cognition	Priv.Doz. Dr. phil. Uwe Meyer	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.31107	Introduction to the Philosophy of Mind (Intensive Course)	Seminar	Philosophy of Mind and Cognition	Dr. techn. Dr. phil. Gregor Michael Hörzer	3	6	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.31108	Platon über die Seele, Macht, Gerechtigkeit und die philosophische Existenzweise	Seminar	Philosophy of Mind and Cognition	Priv.Doz. Dr. phil. Uwe Meyer	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.31109	Self-Control and Willpower: Interdisciplinary Perspectives	Seminar	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.31112	Utilitarianism in Action: Climate Change, Animal Ethics, Bioethics...	Seminar	Philosophy of Mind and Cognition	Priv.Doz. Dr. phil. Uwe Meyer	4	8	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.31113	Wissenschaftsfreiheit und Moral (Blockseminar)	Seminar	Philosophy of Mind and Cognition	Priv.Doz. Dr. phil. Uwe Meyer	2	4	CS-BWP-PHIL	CS-MWP-PHIL	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.31101	Introduction to Philosophy for Cognitive Science (CS-BP-PHIL; CS24-BP-PHIL)	Lecture	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter, Dr. techn. Dr. phil. Gregor Michael Hörzer, Priv.Doz. Dr. phil. Uwe Meyer	2	4	CS-BP-PHIL	CS-MW	CS24-BP-PHIL	CS24-MW
8.31102	Philosophy of Mind and Cognition Colloquium	Colloquium	Philosophy of Mind and Cognition	Prof. Dr. phil. Sven Walter, Dr. techn. Dr. phil. Gregor Michael Hörzer	2	2	CS-BW	CS-MW	CS24-BW	CS24-MW
8.31205	Study Project: Dialog (Part II)	Studienprojekt	Psycho- and Neurolinguistics	Prof. Dr. phil. Nicole Gotzner	6	12	/	CS-MP-SP	/	CS24-MP-SP
8.31206	Begleitseminar zum Studienprojekt: Dialog (Part II)	Seminar	Psycho- and Neurolinguistics	Prof. Dr. phil. Nicole Gotzner	3	6	/	CS-MP-IC	/	CS24-MWP-LING-x
8.31204	Getting pragmatic about intonation	Seminar	Psycho- and Neurolinguistics	Dr. Elli Tourtouri, Dr. Monwenna Hoeks	4	8	CS-BWP-CL	CS-MWP-CL	CS24-BWP-LING-x	CS24-MWP-LING-x
8.21201	Linguistics Circle: Current Research in Psycholinguistics and Pragmatics	Seminar	Psycho- and Neurolinguistics	Prof. Dr. phil. Nicole Gotzner	2	4	CS-BWP-CL	CS-MWP-CL	CS24-BWP-LING-x	CS24-MWP-LING-x
8.31202	Developing skills for behavioral experiments in psycholinguistics	Practical training	Psycho- and Neurolinguistics	Dr. Monwenna Hoeks	2	4	CS-BWP-CL	CS-MWP-CL	CS24-BWP-LING-x	CS24-MWP-LING-x
8.31203	Developing skills for EEG/eye-tracking in psycholinguistics	Practical training	Psycho- and Neurolinguistics	Dr. Elli Tourtouri	2	4	CS-BWP-CL	CS-MWP-CL	CS24-BWP-LING-x	CS24-MWP-LING-x