

Thesis Supervisors:

Linguistics and Cognitive Science

Note: You are free to choose supervisors across the disciplines. If you desire a supervisor across disciplines, please contact the desired supervisor in advance.

**All supervisors external to LICS must be approved by the Head of Department,
Joshua Charles Skewes.**

NB: Faculty members on this list are available for thesis supervision, and most are also available for internal supervision of Project Placement projects.



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">- Pidgins and creoles- Contact linguistics- Linguistic Typology- Historical linguistics- Grammaticalization- Anthropological linguistics- Sociolinguistics- Austronesian languages- Computational linguistics- Language classification- Numeral systems	



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Linguistic behavior on social media• Translation theory and practice (also as product thesis)• Translation critique• Text linguistics, discourse analysis, ethnographic linguistics• Language and evolution• Psycholinguistics• Romance and Germanic languages (also in a comparative perspective)• Grammar studies (e.g. standard vs. non-standard varieties; historical change)	<ul style="list-style-type: none">• Rhetorical moves and linguistic characteristics in private hate messages• Developing a framework for quantifying success on social media (focused on misinformation; Cog.Sem.)• The conversational characteristics of online-meetings• Vaccination discourse on Israeli Facebook• The discourse of depression on Greek Reddit• Hadetale i danske online-medier• Anti-vaccinationsdiskursen på danske Twitter• Høflighed på dansk - spørgeskemaundersøgelse



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Phonetics and Phonology• Bilingualism• Second-language acquisition• First-language acquisition• Language and pre-literacy intervention• Language and pre-literacy assessment• Language acquisition in hearing-impaired	<ul style="list-style-type: none">• Perception ved indlæring af nye ord hos danske hørehæmmede førskolebørn: Diskrimination af initiale konsonanter• Forebyggelse af læsevanskeligheder i børnehavealderen - Evidensbaseret prædiktation og intervention• En undersøgelse af om Reciprocal Teaching kan forbedre sprogforståelsen i læsning hos tosprøgede elever i de yngre klasser i folkeskolen• Otitis media og sprogudvikling – En kvantitativ undersøgelse af sprogudviklingen hos danske børn i treårsalderen med historik for otitis media• The Phonological Development in Danish-speaking Children• Voksne hørehæmmedes identifikation af danske konsonanter i stilhed og støj• Er piger bare dygtigere? En undersøgelse af kønsforskelle i sproglige kompetencer hos treårige baseret på national sprogvurdering



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Research areas/Areas of supervision	Examples of theses
<p>Language processing:</p> <ul style="list-style-type: none">• Phonetics/phonology• Foreign language learning• Arabic phonology/morphosyntax• Danish phonology/morphosyntax <p>Parkinson's disease:</p> <ul style="list-style-type: none">• Deep brain stimulation (DBS)• Basal ganglia• Response inhibition• Verbal fluency <p>MEG/EEG:</p> <ul style="list-style-type: none">• Auditory processing• M/EEG methods generally speaking• Experimental design for neuroimaging <p>More tangentially related topics:</p> <ul style="list-style-type: none">• Musical processing in cochlear implant users• Musical feature processing in the brain• Multimodal (e.g. audio-visual) sensory processing	<ul style="list-style-type: none">• Hierarchical mechanisms of updating and ignoring in visual working memory• A Bayesian Evaluation of Hybrid vs. Single-Method Retrieval in LLM-based RAG• Exploring Pain Prediction Errors• Investigating the Effect of Music on Step Length in People with Parkinson's Disease• Vokaler og Jødeharper• Et pilotstudie med clozetest som supplement: En ny tilgang til diagnosticeringen af dysleksi• Neurodiversity in heuristics and biases• Can the Heart Reveal the Secrets of the Brain? Exploring the Potential of Heart Rate Variability (HRV) in Diagnosing Attention Deficit Hyperactivity Disorder (ADHD)• Exploring the Applicability of the MiniPSG: RSWA Quantification, Diagnostic Performance and Data Quality• Har chunk-sensitivitet en effekt på læsehastighed?• Structural priming from arithmetic to language• Investigating the application of 3D CNNs to whole-brain fNIRS data and transfer learning• Selective action verb impairment in Parkinson's disease patients when reading naturalistic stories• Developing Eye-Cue: Implementing augmented reality cues to relieve freezing of gait in Parkinson's disease - A case study



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Research areas/Areas of supervision	Examples of theses
<p><u>Dynamics of group synchrony</u></p> <p>How do groups synchronize actions – at the levels of brain and behaviour - when playing music, sports, dancing, etc.?</p>	<ul style="list-style-type: none">• Neural entrainment as a mechanism of rhythm processing in music and language (Aarhus University)• Agency beyond the dyad - A novel paradigm for investigating triadic interaction and subgroup dynamics (Aarhus University)• What will you do when? How social context modulates sensitivity to others' action predictability (Aarhus University)• Low-latency real-time sonification as a novel paradigm in joint action research (Aarhus University)• Neural and behavioural correlates of musicians' natural frequencies in music (McGill University)• Endogenous rhythms influence interpersonal synchrony (McGill University)• Match me if you can: Continuous dynamics of learning to coordinate auditory-motor rhythms with a partner (Central European University)
<p><u>Measurement of multi-brain neural dynamics using EEG hyperscanning</u></p> <p>How can we measure, analyze and model EEG activity from multiple individuals simultaneously?</p>	
<p><u>Mechanisms of social prediction</u></p> <p>Are human prediction mechanisms enhanced for social partners over other individuals in our environment?</p>	
<p><u>EEG neurofeedback / sonification for joint action learning</u></p> <p>How can we use neurofeedback to facilitate individual and joint action coordination?</p>	
<p><u>Cross-domain processing of music and language</u></p> <p>Are mechanisms for processing shared features of music and language – rhythm, pitch, syntax, etc. – overlapping or distinct?</p>	



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Computational neuroscience• Predictive coding• Data science• Disorders of the mind	<ul style="list-style-type: none">• The diagnostic predictiveness of interindividual differences in susceptibility to illusory control• Inside the triad - a computational exploration• The role of dopamine in a volatile social decision-making task with active inference and a hierarchical Gaussian filter



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Research areas/Areas of supervision	Examples of theses
Mental health and psychological well-being Depression, anxiety, mental health around childbirth	<ul style="list-style-type: none">• Parental strategies at night for optimizing own sleep• Systematic review of mediators in cognitive behavior therapy for social anxiety disorders• Gender Difference in behavioural response to infant crying• Pet ownership and mental health during the COVID-19 pandemic• Are you going to take care of me alone, Dad? Using sentiment analysis to explore how the Danish media portrayed the August 2022 paternity leave implementation• When Bayes goes Mindful on the app: investigating home practice patterns and adherence in MBSR with smartphone app monitoring• Sleep in fathers: a systematic review and meta-analysis of data from two years post birth of a child
Treatments for mental health Measuring mechanisms of change Treatment engagement	
Sleep and emotion How does sleep impact next day emotion functioning Sleep in new parents	
Parents and parent-child interactions How do parents share caregiving?	



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Experimental semiotics• Social cognition• Embodied communication• Joint action• Action planning and control• Joint music performance• Shared representations• Behavioral synchrony• Social learning	<ul style="list-style-type: none">• Dissociating Movement Variability and Speed in Intentional Joint Action Coordination• Motor Coordination and Task Representations in Joint Action• Learning Time Coordination in Joint Action and the Effects of Theory of Mind Ability• Do You Want to Play Piano with Me? A Study on Shared Learning in Music Performance• Transfer of Learning in Joint Action



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Early language development• Early childhood interventions• Quality of the learning environment (daycare/home)• Early assessment (language, pre-literacy, math, socioemotional skills)• Professional development (teachers)	<ul style="list-style-type: none">• Kvaliteten af børns ordforråd som indikator for senere skoleudvikling• Fra afprøvning til test. En undersøgelse af otteårige med og uden SLI's færdigheder i præteritumbøjning omsat til praksis• Børns tilegnelse af tidlig gestik• Ensartetheden i den danske logopædiske testning med Reynell og Sproglig test 1



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Research areas/Areas of supervision	Examples of theses
<p>Clinical Linguistics:</p> <ul style="list-style-type: none"> • Dyslexia • Reading Comprehension • Reading Decoding • Autism Spectrum Disorder <p>Child language development:</p> <ul style="list-style-type: none"> • Phonological development • Child-directed speech • Language development in school-age children <p>Speech Acoustics:</p> <ul style="list-style-type: none"> • Voice quality • Speech processing • Modelling prosody in clinical groups <p>Methods:</p> <ul style="list-style-type: none"> • Quantitative Analysis • Online Experiments • Acoustic Analysis • Meta-Analysis • Network Analysis • Experimental Methods 	<ul style="list-style-type: none"> • Kan skærm læsning optimeres? En undersøgelse af læseoptimerende tiltag og bevidsthedsskabende læsestrategier • Arbejdshukommelsen og skriftsprogs vanskeligheder - Et foreløbigt studie af arbejdshukommelsen hos personer med dysleksi og dyskalkuli • "Jeg snakker hele tiden, far - jeg holder slet ikke pause". En interventionsundersøgelse af et video-SMS-forløb til forældre med børn i vuggestuealderen. • Vanskeligheder med lokal kohæsi hos studerende med skriftsprogs vanskeligheder • RAI00: Redskab til automatisk individuel opsætning af et ordforslagsprogram • Los, las... ¿y les? Assessing the cognitive effort of gender-neutral language in Spanish role names • Investigating the role of mouthing in Greek Sign Language, and its relationship with lexical access for congenitally deaf and bimodal adults: An online priming study • Syntaktisk kompleksitet, arbejdshukommelse og dysleksi i videregående uddannelse • Authorship Analysis: Document Clustering for Digital Text Forensics • Does musical training affect the speech perception abilities of cochlear implant users? • Udvikling Af Stavekompetencer - en pilotundersøgelse af dysleksimaterialers effekt i den almene undervisning • Udvælgende opmærksomhed og kognitiv kontrol hos dyslektiske folkeskolebørn - et kvantitativt studie af ordblindes opgaveløsning, selvregulering og arbejdshukommelsesstrategier • Læseforståelse og dysleksi på lange videregående uddannelser: En undersøgelse af clozetest-formatet og dets gyldighed som læseforståelsestest på en kontrolgruppe af universitetsstuderende. • Dyslexia - using spelling errors to qualify self-reports



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Interaction• Conversation analysis• The grammar of talk-in-interaction• Ethnographically based studies of language use and interaction• Video-observation• Danish grammar• Danish phonetics and phonology• Interactional linguistics, emergent grammar, construction grammar, dialogic grammar• Second language acquisition• Children's interaction• Critical discourse analysis• Bilingual, multilingual, plurilingual interaction• Qualitative sociolinguistics• Post-structuralist linguistics	<ul style="list-style-type: none">• A conversation analytic investigation of the use of the Danish modal particles 'godt' and 'gerne' in naturally occurring Danish conversations• Samtaleri: Et dialogbaseret læringsmateriale til undervisning i dansk som andetsprog• At springe ud af skabet – en lingvistisk-etnografisk, queerteoretisk undersøgelse af homo- og heteroseksuel identitetsarbejde• Samarbejdende børn – En lingvistisk etnografisk konversationsanalytisk undersøgelse af sprog og bevægelser i børnehavebørns sociale interaktioner• Samtalegrammatik i skriftlig online interaktion – en digital-samtaleanalytisk undersøgelse af udvalgte samtalegrammatiske fænomener på facebook• Æv bæv – Et samtaleanalytisk indblik i vurderinger i danske, naturlige samtaler• The function of the foundation field in Danish talk-in-interaction. On the intersection of information structure, interactional organization and syntactic coordination• "Vi er nogle der bruger det!" - Danish gender-inclusive pronouns in theory and practice 1942-2021• Conflict Mediation and Epistemic Challenges: An Applied Conversation Analysis of Interactional Issues, Mediator Strategies, and applied interventions to the field• How have populist figures Nigel Farage and Jeremy Corbyn strategically used language to mobilize support and reshape the political landscape in the UK?• How Young Men Talk about Sexual Consent: A Discourse Analysis of Peer Group Discussions• Exploring the Potential Influence of Language in Telegram Posts on Expats' Opinions and Perspectives Regarding the Russia-Ukraine War• Ukrainian speakers learning Danish. Insights from a linguistic ethnographic fieldwork



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• I am looking to supervise a team of students who are interested in doing their BSc thesis in collaboration with Viborg FF's talent academy. The focus of the collaboration is on tactical decision making in football.	<ul style="list-style-type: none">• Collaborative BSc and MSc theses with Viborg FF's talent academy, to develop software to facilitate video analysis for game review and training• Collaborative BSc thesis with Viborg FF's talent academy to explore tactical decision making in elite youth football players



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Early written language analysis• Languages of religious minorities	<ul style="list-style-type: none">• An Analysis of Low German administrative texts on the Danish Island of Amager <p><i>Note: Basic knowledge of German would be an advantage for any student looking to write in these areas.</i></p>



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Research areas/Areas of supervision	Examples of theses
<p>Consciousness, awareness and attention:</p> <ul style="list-style-type: none">• How to measure subjective experience• Neural correlates of consciousness <p>Electro- and magnetoencephalography:</p> <ul style="list-style-type: none">• Somatosensation• Visual perception• Sensory expectation• The cerebellum• Parkinson's Disease• On-scalp magnetoencephalography• Source reconstruction <p>Programming pipelines:</p> <ul style="list-style-type: none">• Python• R• MATLAB <p>Related topics:</p> <ul style="list-style-type: none">• Primate cognition• Mixed models fitting and machine learning• Philosophy of Mind	<ul style="list-style-type: none">• Parkinson's Disease and Caregiver Burden: Evaluating Non-Pharmacological Interventions and Support Systems• When Grid Cells Fire: quantifying hexagonal grid cell firing in the entorhinal cortex using human MEG and eye-tracking data• The temporal sensitivity of cerebral and cerebellar responses to somatosensory omission, a pilot study• Hjernens signalstoffer og aktivitet hos personer med muskelkraftnedsættelse, betydning for diagnostik og udvikling af hjælpemidler• Breathing in the Brain: A computational approach• Random Matrix theory based denoising of redundant neuroimaging data• Expectation-related activity in the cerebellum during somatosensory perception• Selective Auditory Attention and the Influence of Expertise• Perceptuel bevidsthed i henhold til detektions- samt diskriminationsopgaver• Cortical alpha waves as a neural correlate of attention



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Research areas/Areas of supervision	Examples of theses
<p>Recreational fear:</p> <ul style="list-style-type: none">• Fear & enjoyment• Horror fan types <p>Cognitive Development:</p> <ul style="list-style-type: none">• Play & Playfulness• Learning & Reward• Cognitive models of play• Risky play / adventurous play / play fighting• Playing with fear / recreational fear <p>Cognitive Science of Religion:</p> <ul style="list-style-type: none">• Religious experiences• Divination• Agency Detection <p>Human-Computer Interaction, UX, Design Psychology</p> <ul style="list-style-type: none">• Usability design optimisation	<p>Play and Development</p> <ul style="list-style-type: none">• Locomotor play / hopscotch motion detection• The role of play in divergent thinking• Exploring the connection between sexual curiosity and play• Exploring the effects of expectations on playful behavior <p>Human-computer interaction, UX & Cognitive Design</p> <ul style="list-style-type: none">• Cookie design• Boardgame design• Designing for sustainability



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Research areas/Areas of supervision	Examples of theses
<p>Quantitative approaches to areas in the vicinity of:</p> <p>Brain and body:</p> <ul style="list-style-type: none"> • Cognitive neuroscience • Basic physiology and cognition (heart rate, respiration, hormones, sleep, etc.) <p>Language and mind:</p> <ul style="list-style-type: none"> • Lateralization in language, brain and behavior • Language and attention/space • Language as a window to personality • The inner voice and self-talk in relation to cognition, mood and personality <p>Sound and fury:</p> <ul style="list-style-type: none"> • Emotion & mood • Music and sound processing <p>Sex and gender:</p> <ul style="list-style-type: none"> • Sex and gender differences in language, brain and behavior 	<ul style="list-style-type: none"> • Revisiting the Bayesian Model for Novel Word Learning • Objects as Signs – an experimental study. • Does it sound alive? - auditorily perceived cues of animacy • Dilated Pupils As an Attractor of Visual Attention: an Eye Tracking Study • Music and meaning- making. The effects of music in cross- modal domains • Beskrivelse og praktisk afprøvning af forventningsopbygning i musik og hjerne med fokus på ""Mismatch Negativity"" MMN • When Depression Speaks - A Computational Analysis of Quantitative Differences in Word Frequencies Between Danish Individuals with First-Episode Major Depressive Disorder and Healthy Controls • What does the inner voice do? Self-regulation in sport and cognitive psychology



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Cognitive Linguistics• Pragmatics and the philosophy of pragmatics• Theory of Text Types and Genres• Communicational strategies at large (ads, brands, framing, and discourse)• Meaning-making in Art and Perception• Meaning-making in Art and Language• Philosophy of Mind, Phenomenology and Semiotics	<ul style="list-style-type: none">• Political Communication - Framing and Conceptual Metaphor• Synthesizing Ritualized Behavior and Religious Cognition• Din Hjerne på Reklamer - Hvorfor nogle reklamebilleder er mere fængende end andre?• Morality as Purity - Studying Moral Cognition from the Perspective of Conceptual Metaphor Theory and Moral Psychology• Meaning-making in literary art: A cognitive semiotic study on simultaneous narration• Perception and Representation of Motion, Time, Sound, and Symbols in Comics• Folket – En undersøgelse af hvordan konceptuelle metaforer strukturerer og framer forestillingen om "folket"• Fra solorytter til læsehest - En undersøgelse af guidet fælleslæsning som litteraturpædagogisk metode til undervisningen i en 10. Klasse i Århus• Framing, narratives, and conceptual metaphors as propaganda techniques for psychological and informational warfare• The Semiotics of Soft Power: An Examination of the South Korean Entertainment Industry• Kropslige fortællinger: Litterære narrativer som adgang til de handicappedes verden



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Sociolinguistics• Anthropological linguistics• Historical linguistics• Contact linguistics• Pidgins and creoles• Amerindian languages• Genderlects• Twins' languages• Language planning and policy• Multilingualism• Deaf studies• Canada• Nuristani languages• Typology• Language description	<ul style="list-style-type: none">• Fonologisk kompleksitet i dansk – en diskussion af det danske lydsystems synkrone og diakrone kompleksitet fra et typologisk perspektiv.• Sproglig socialisering – En lingvistisk etnografisk tilgang til en caseundersøgelse fra en dansk institution med tosprogede børn.• "Må jeg låne your pencil, please?". The whys and whens of codeswitching in schoolchildren's conversations.• Rosa Mexicano. The meaning of the Mexiacan Spanish color terms of Oaxaca.• The spread of English in present Europe: Comparing the popularity of English in different parts of Europe. A survey among volunteers in an international organization.• African structural continuity in Atlantic creoles: phylogenetic network analysis applied to structural-typological data.• The performance of femininity in rap lyrics.• Did the Neanderthals speak? – A review of the evidence.• Kæltringelatin. Kryptolekter blandt omrejsende underklassegrupper på landet i Skandinavien mellem år 1700 og 1945.• Linguistic Fieldwork: Experience and tense and aspect system description of a Neo-Aramaic dialect of Diana, Iraq.• Sproglige stereotyper i danske film og en sprogholdningsundersøgelse af danskernes holdning til den multietniske ungdomsstil.• The Instruction of Literacy for Adult Newcomers in Highly Literate Societies• Lang Belta: the creole of space. A case study of an invented creole• Why Bitch Slays but Kælling Fails



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Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Semantics and pragmatics• Language typology and variation• Natural Language Processing and Machine Learning• Computational Linguistics• Social media analysis• Causality/causal inference modeling• Sound symbolism• Social meaning/sociopragmatics	<p>See student paper titles resulting from courses/seminars I've taught at AU:</p> <ul style="list-style-type: none">• 2019 Research Workshop Computational Linguistics papers: https://aunlp.github.io/LaC20/#!2019_Papers.md• 2019 Natural Language Processing papers: https://aunlp.github.io/LaC20/NLP_posters_flier.pdf <p>Some recent theses:</p> <ul style="list-style-type: none">• Improving coreference resolution accuracy on scientific texts using pronoun masking and document segmentation• Offensive Language Detection in Danish• Creating NLP tools for analysis of Danish News Data• Topic Modeling Danish Covid-19 Tweets• Towards explainable Embeddings: XAI using topic modeling• EMODa: An Interactive Tool for Emotion Classification in Danish• How Individual Perceptions & Societal Constructions Affect Compliance During COVID-19: A two-fold Methodological Mixed Effects Approach• Empathy and Political Polarization in Coverage of the Black Lives Matter Movement: An NLP Approach



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[https://pure.au.dk/portal/da/persons/riccardo-fusaroli\(3f72f2a1-e93a-4689-872c-c11c9703c1cc\).html](https://pure.au.dk/portal/da/persons/riccardo-fusaroli(3f72f2a1-e93a-4689-872c-c11c9703c1cc).html)

Research areas/Areas of supervision	Examples of theses
<p>Social interactions (free and task-oriented):</p> <ul style="list-style-type: none">• NLP/Quantitative corpus analysis (e.g. linguistic alignment, repair, backchannels, semantic trajectories, turn taking...)• Experimental investigations• Agent based models / Cognitive models <p>Language, Voice, Gesture and Movement in:</p> <ul style="list-style-type: none">• Autism Spectrum Disorders• Schizophrenia• Affective disorders (Depression, Bipolar) <p>Language acquisition</p> <ul style="list-style-type: none">• Corpus analysis (e.g. Childes)• Lexical networks• Child Directed Speech• Turn-taking <p>Computational cognitive modeling</p> <ul style="list-style-type: none">• e.g. Models of executive function in psychiatric patients• e.g. Implementation and validation of cognitive models in a probabilistic framework (Stan)	<p>List of suggestions for projects within my research interests: https://docs.google.com/spreadsheets/d/1tllHV0-W9NBFSba1gUplGQ50ImFQfX8x8l0434xxnAA/edit?usp=sharing</p> <p>Examples of previous theses:</p> <ul style="list-style-type: none">• Computational models of categorization in individual and dyadic joint decision tasks• Generalizability of machine-learning based speech markers of neuropsychiatric conditions• Semantic exploration and exploitation in child-caregiver conversations



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[https://pure.au.dk/portal/da/persons/roberta-rocca\(079b23a2-46f6-4a00-9cd6-9a1339101208\).html](https://pure.au.dk/portal/da/persons/roberta-rocca(079b23a2-46f6-4a00-9cd6-9a1339101208).html)

Research areas/Areas of supervision	Examples of theses
<p>Natural language processing</p> <ul style="list-style-type: none">• Clinical NLP (e.g., predicting clinical traits from text)• Linguistic markers of cognitive traits• Humanitarian NLP• Human- vs. AI-generated text• Agent-based simulations with conversational agents <p>[Computational] social science</p> <ul style="list-style-type: none">• Analysis of social media data• Agent-based simulation of social behavior• Text analysis for political science <p>Neuroimaging and open science</p> <ul style="list-style-type: none">• Naturalistic fMRI• (Meta)analysis & open data (Neuroscout; Neurosynth)• Linguistic and auditory representations in the brain <p>Research methods</p> <ul style="list-style-type: none">• Reproducibility, replicability, and generalization• Open science practices• Benchmarks for cognitive / social sciences	<ul style="list-style-type: none">• Expanding insights from agent-based modeling through intelligent conversational interfaces: a proof-of-concept study in the context of filter bubbles• Contextually-sensitive topic models: an in-depth investigation and two novel approaches• Quantifying creativity: classification of human- and machine-generated storytelling• Representing visual art with embeddings from computer vision models



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[https://pure.au.dk/portal/da/persons/ross-deans-kristensenmclachlan\(29ad140e-0785-4e07-bdc1-8af12f15856c\).html](https://pure.au.dk/portal/da/persons/ross-deans-kristensenmclachlan(29ad140e-0785-4e07-bdc1-8af12f15856c).html)

Research areas/Areas of supervision	Examples of theses
<p>Cognitive, corpus-based and computational approaches to:</p> <ul style="list-style-type: none">• Style, register, and genre• Rhetoric• Meaning construction• Narrative comprehension• Discourse processing <p>Natural language processing, particularly in the following areas:</p> <ul style="list-style-type: none">• Low-resource languages• Historical language data• Literary texts• Lexical semantics <p>Computer vision and image processing applied to cultural data:</p> <ul style="list-style-type: none">• Digital art history• Visual culture (memes, advertising, etc)• OCR (extracting text from images) <p>General topics in digital humanities and social science using:</p> <ul style="list-style-type: none">• Network analysis• Applied deep learning methods• Mixed-method approaches combining text and image data	<p>Investigating the performance of contemporary Danish NLP models on 19th century Danish language text</p>



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[https://pure.au.dk/portal/en/persons/william-bernard-mcgregor\(f7754444-cf42-410b-95a0-fcbb9a95ec41\).html](https://pure.au.dk/portal/en/persons/william-bernard-mcgregor(f7754444-cf42-410b-95a0-fcbb9a95ec41).html)

Research areas/Areas of supervision	Examples of theses
<ul style="list-style-type: none">• Language description and documentation• Historical & comparative linguistics• Grammaticalisation• Linguistic typology• Cognitive-functional-semiotic grammar• Sign languages - deaf & alternate• Australian Aboriginal languages• Khoe languages• History of linguistics• Possession• Interpersonal grammar and joint attention• Nominal and verbal classification• Kinship• Semantics and pragmatics• Narrative• Spatial language and cognition	<ul style="list-style-type: none">• Reta phonology, morphology and syntax. A grammar sketch of a Papuan language of Nusa Tenggara Timur, Eastern Indonesia• Blumps and twipitts: how native speakers of English perceive sound and symbolic elements in nonsense words• An initial description of the phonetics and phonology of Kurdish Sign Language• The phonology of Zaachila Zapotec. A segmental and suprasegmental analysis• ORSUMM recognizes speakers using motor movements• Typological variation of syntactic roles• Relationen mellem læsning og hurtig automatisk benævnelse