



Athanasia Monika Mowinckel

STAFF SCIENTIST

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Education

Philosophiae doctorem - University of Oslo - Norway

THESIS TITLE: NEUROCOGNITIVE PROCESSES OF DECISION-MAKING IN ADULTS WITH ADHD

2012 - 2016

Master in Cognitive Neuroscience - University of Oslo - Norway

THESIS TITLE: DEFAULT MODE RESTING-STATE FUNCTIONAL CONNECTIVITY OF THE AGING BRAIN

2009 - 2011

Bachelor in Psychology - University of Oslo - Norway

THESIS TITLE: ATTENTION DEFICITS IN MILD COGNITIVE IMPAIRMENT AND DEMENTIA OF THE ALZHEIMER TYPE

2006 - 2009

Research positions

University of Oslo - Center for Lifespan Changes in Brain and Cognition

STAFF SCIENTIST

Oslo

2018 - present

- Creation and maintenance of LCBC data-base
- Data sharing and management in Lifebrain EU-project (WP2)
- Oversee data quality in ongoing data-collection

University of Oslo - Center for Lifespan Changes in Brain and Cognition

RESEARCHER / PROJECT MANAGER

Oslo

2016 - 2017

- Coordinating data collection, data-management, and research collaborations
- Running analyses and data preparations

University of Oslo - Dept. of Psychology

RESEARCH ASSISTANT AND LAB-TECHNICIAN

Oslo

2011 - 2012

- Work with functional MRI-analysis, supervising students, and transitioning lab from windows to a Linux
- Scripting of experiments, testing of participants and work on application for grants and ethical approval

Memberships & Services

I am passionate about increasing the representation and retention of women in science, and in improving the formal training and competencies taught at the University. These interests are evident from task force and board memberships, and in activities I engage in outside of work, like R-Ladies.

R-Ladies global team

GLOBAL TEAM MEMBER

Oslo

2019 - present

- Assisting in daily coordination and webpage maintenance of R-Ladies globally
- Initiative running events for coding, networking and support of minority genders in the R-community

R-Ladies Oslo

CO-FOUNDER AND CHAIR

Oslo

2018 - present

- Assisting in daily coordination and webpage maintenance of R-Ladies globally
- Initiative running events for coding, networking and support of minority genders in the R-community

University of Oslo

MEMBER

Oslo

2019 - NA

- Dept. of Psychology internal ethics committee

University of Oslo

MEMBER

Oslo

2017 - 2018

- Task force proposing changes to the PhD-program

University of Oslo

MEMBER

Oslo

2016 - 2017

- Central task force regarding research ethics, GDPR, and Hospital/University collaboration

University of Oslo

FACULTY BOARD MEMBER, ELECTED

Oslo

2015 - 2015

- Faculty of Social Sciences

University of Oslo

DEPARTMENT BOARD MEMBER, ELECTED

- Dept. of Psychology

University of Oslo

CO-FOUNDER AND CHAIR

- PsyDoc - Interest organisation for PhDs and PostDocs.

Oslo

2014 - 2015

Oslo

2013 - 2015

Teaching & Dissemination

In addition to teaching and workshops, I run a coding and neuroscience blog, drmwinkels.io, that includes tutorials in R and neuroimaging. I am also a certified Software Carpentry Instructor.

UNIVERSITY

University of Oslo

SEMINAR TEACHER

- Introduction to research methods (PSY1010/PSYC1100)
- Experimental Cognitive Psychology (PSYC2102)

University of Oslo

SUPERVISOR

- Bachelor thesis

University of Oslo

SEMINAR TEACHER

- Introduction to research methods (PSY1010/PSYC1100)
- Introduction to social psychology (PSY1100)

Oslo, Norway

2012 - 2015

Oslo, Norway

2012 - 2015

Oslo, Norway

2009 - 2011

WORKSHOPS

Monthly internal R-workshops for LCBC

INSTRUCTOR

- 2 hour workshops in using R for analysis, visualization, dissemination etc.

Workshop: Straightforward introduction to mixed models

INSTRUCTOR

- A short workshop in the use of Mixed-models for repeated measurement data

Linear Mixed models on repeated measurement data

INSTRUCTOR

- A short workshop in the use of Mixed-models for repeated measurement data

TidyVerse R

CO-INSTRUCTOR

- Two-day workshop on using R and the Tidyverse-packages for data handling and analysis

Center for Lifespan Changes in Brain
and Cognition

Monthly 2018 - present

Oslo UseR!

June 5, 2019

R-Ladies London

March 28, 2019

University of Oslo - Software
Carpentry

Sept. 25 - 26, 2018

Research software development

A recent interest and professional endeavor is creating R-packages to improve data workflows and visualization in R. Icons link to package websites with documentation, and github repositories where source code is openly available.

2018 - **ggseg**: Lead developer

present Visualization tool for brain atlas segmentations through R

2018 - **ggeg3d**: Lead developer

present 3 dimensional visualization tool for brain atlas segmentations through R

2018 - **ggegExtra**: Lead developer

present Repository of atlas data for the ggseg-packages

2019 - **nettskjemar**: Lead developer

present Package to retrieve data and meta-data from the nettskjema questionnaire tool developed by the University of Oslo

2020 **metagam**: Contributor

Meta-Analysis of Generalized Additive Models in Neuroimaging Studies

Publications & Preprints

In descending chronological order.

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| 2021 | Ø Sørensen, AM Brandmaier, D Macià, K Ebmeier, P Ghisletta, RA Kievit, et al. <i>Meta-analysis of generalized additive models in neuroimaging studies</i> NeuroImage 224 117416 | cites: 2 |
| 2021 | JM Roe, D Vidal-Piñero, Ø Sørensen, AM Brandmaier, S Düzel, et al. <i>Asymmetric thinning of the cerebral cortex across the adult lifespan is accelerated in Alzheimer's disease</i> Nature communications 12 1 111 | cites: 1 |
| 2021 | AM Fjell, Ø Sørensen, IK Amlie, D Bartrés-Faz, AM Brandmaier, et al. <i>Poor Self-Reported Sleep is Related to Regional Cortical Thinning in Aging but not Memory Decline—Results From the Lifebrain Consortium</i> Cerebral Cortex 31 4 19531969 | cites: 0 |
| 2021 | D Vidal-Piñero, MH Sneve, IK Amlie, H Grydeland, AM Mowinckel , et al. <i>The functional foundations of episodic memory remain stable throughout the lifespan</i> Cerebral Cortex 31 4 20982110 | cites: 0 |
| 2020 | AM Fjell, Ø Sørensen, IK Amlie, D Bartrés-Faz, DM Bros, N Buchmann, et al. <i>Self-reported sleep relates to hippocampal atrophy across the adult lifespan: results from the Lifebrain consortium</i> Sleep 43 5 zsz280 | cites: 20 |
| 2020 | AM Mowinckel , D Vidal-Piñero <i>Visualization of Brain Statistics With R Packages ggseg and ggseg3d</i> Advances in Methods and Practices in Psychological Science 3 4 466483 | cites: 16 |
| 2020 | D Vidal-Piñero, N Parker, J Shin, L French, H Grydeland, AP Jackowski, et al. <i>Cellular correlates of cortical thinning throughout the lifespan</i> Scientific reports 10 1 114 | cites: 10 |
| 2020 | KB Walhovd, AM Fjell, Ø Sørensen, AM Mowinckel , CS Reinbold, et al. <i>Genetic risk for Alzheimer disease predicts hippocampal volume through the human lifespan</i> Neurology Genetics 6 5 | cites: 5 |
| 2020 | VM Danielsen, D Vidal-Piñero, AM Mowinckel , D Sederevicius, AM Fjell, et al. <i>Lifespan trajectories of relative corpus callosum thickness: regional differences and cognitive relevance</i> Cortex 130 127141 | cites: 5 |
| 2020 | KB Walhovd, ACS Bråthen, MS Panizzon, AM Mowinckel , Ø Sørensen, et al. <i>Within-session verbal learning slope is predictive of lifespan delayed recall, hippocampal volume, and memory training benefit, and is heritable</i> Scientific reports 10 1 113 | cites: 0 |
| 2020 | I Budin-Ljøsne, BB Friedman, S Suri, C Solé-Padullés, S Düzel, et al. <i>The global brain health survey: development of a multi-language survey of public views on brain health</i> Frontiers in public health 8 387 | cites: 0 |
| 2020 | VP Didac, N Parker, J Shin, L French, G Håkon, AP Jackowski, et al. <i>Cellular correlates of cortical thinning throughout the lifespan</i> Scientific Reports (Nature Publisher Group) 10 1 | cites: 0 |
| 2020 | KB Walhovd, A Fjell, Y Wang, IK Amlie, AM Mowinckel , U Lindenberger, et al. <i>Education and income show heterogeneous relationships to lifespan brain and cognitive differences across European and US cohorts</i> bioRxiv | Preprint cites: 0 |
| 2020 | A Fjell, H Grydeland, Y Wang, IK Amlie, D Bartrés-Faz, A Brandmaier, et al. <i>The genetic organization of subcortical volumetric change is stable throughout the lifespan</i> bioRxiv | Preprint cites: 0 |
| 2020 | A Fjell, O Sorensen, IK Amlie, D Bartres-Faz, A Brandmaier, D Macia, et al. <i>Self-reported sleep problems are related to cortical thinning in aging but not memory decline and amyloid-β accumulation-results from the Lifebrain consortium</i> bioRxiv | Preprint cites: 0 |
| 2019 | AM Fjell, CH Chen, D Sederevicius, MH Sneve, H Grydeland, et al. <i>Continuity and discontinuity in human cortical development and change from embryonic stages to old age</i> Cerebral Cortex 29 9 38793890 | cites: 11 |
| 2019 | D Vidal-Piñero, MH Sneve, LH Nyberg, AM Mowinckel , D Sederevicius, et al. <i>Maintained frontal activity underlies high memory function over 8 years in aging</i> Cerebral Cortex 29 7 31113123 | cites: 11 |
| 2019 | AM Fjell, MH Sneve, D Sederevicius, Ø Sørensen, SK Krogsrud, et al. <i>Volumetric and microstructural regional changes of the hippocampus underlying development of recall performance after extended retention intervals</i> Developmental cognitive neuroscience 40 100723 | cites: 4 |
| 2019 | KB Walhovd, AM Fjell, Ø Sørensen, AM Mowinckel , CS Reinbold, et al. <i>Genetic risk for Alzheimer's disease predicts hippocampal volume through the lifespan</i> bioRxiv 711689 | Preprint cites: 4 |

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| 2019 | AM Fjell, MH Sneve, D Sederevicius, Ø Sørensen, SK Krogstad, et al. <i>Volumetric and microstructural regional changes of the hippocampus underlying development of extended delay long-term memory</i> bioRxiv 595827 | Preprint cites: 1 |
| 2019 | D Bartrés-Faz, Ø Sørensen, IK Amlie, AM Fjell, DM Bros, N Buchmann, et al. <i>Self-reported sleep relates to hippocampal atrophy over the adult lifespan—results from the Lifebrain consortium</i> Sleep 43 5 | cites: 0 |
| 2018 | KB Walhovd, AM Fjell, R Westerhausen, L Nyberg, KP Ebmeier, et al. <i>Healthy minds 0–100 years: Optimising the use of European brain imaging cohorts (“Lifebrain”)</i> European Psychiatry 50 4756 | cites: 29 |
| 2018 | D Vidal-Piñero, SH Markus, L Nyberg, AM Mowinckel , D Sederevicius, et al. <i>P2-395: TESTING MAINTENANCE AND COMPENSATION NOTIONS IN NORMAL AGING: AGE-RELATED CORRELATES OF ASSOCIATIVE ENCODING SUCCESS</i> Alzheimer’s and Dementia 14 7SPart16 P854P854 | cites: 0 |
| 2017 | AM Mowinckel , D Alnæs, ML Pedersen, S Ziegler, M Fredriksen, et al. <i>Increased default-mode variability is related to reduced task-performance and is evident in adults with ADHD</i> NeuroImage: Clinical 16 369382 | cites: 26 |
| 2016 | S Ziegler, ML Pedersen, AM Mowinckel , G Biele <i>Modelling ADHD: A review of ADHD theories through their predictions for computational models of decision-making and reinforcement learning</i> Neuroscience and Biobehavioral Reviews 71 633656 | cites: 65 |
| 2015 | AM Mowinckel , ML Pedersen, E Eilertsen, G Biele <i>A meta-analysis of decision-making and attention in adults with ADHD</i> Journal of attention disorders 19 5 355367 | cites: 87 |
| 2012 | AM Mowinckel , T Espeseth, LT Westlye <i>Network-specific effects of age and in-scanner subject motion: a resting-state fMRI study of 238 healthy adults</i> Neuroimage 63 3 13641373 | cites: 134 |