



Athanasia Monika Mowinckel

STAFF SCIENTIST

✉ a.m.mowinckel@psykologi.uio.no | 🌐 drmowinckels.io/ | 📱 drmowinckels | 🖼 drmowinckels | 🐣 DrMowinckels

Education

Philosofiae 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

Oslo

STAFF SCIENTIST

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

Oslo

RESEARCHER / PROJECT MANAGER

2016 - 2017

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

University of Oslo - Dept. of Psychology

Oslo

RESEARCH ASSISTANT AND LAB-TECHNICIAN

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 Leadership

LA

2022 - present

BOARD OF DIRECTORS

- Global coordination of R-Ladies as a non-profit organisation
- 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 global team

Oslo

2019 - present

GLOBAL TEAM MEMBER

- Global coordination of R-Ladies as a non-profit organisation
- 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

Oslo

2018 - present

CO-FOUNDER AND CHAIR

- Global coordination of R-Ladies as a non-profit organisation
- 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

Oslo

2019 - 2022

MEMBER

- Dept. of Psychology internal ethics committee

University of Oslo

Oslo

2017 - 2018

MEMBER

- Task force proposing changes to the PhD-program

University of Oslo	<i>Oslo</i>
MEMBER	2016 - 2017
• Central task force regarding research ethics, GDPR, and Hospital/University collaboration	
University of Oslo	<i>Oslo</i>
FACULTY BOARD MEMBER, ELECTED	2015 - 2015
• Faculty of Social Sciences	
University of Oslo	<i>Oslo</i>
DEPARTMENT BOARD MEMBER, ELECTED	2014 - 2015
• Dept. of Psychology	
University of Oslo	<i>Oslo</i>
CO-FOUNDER AND CHAIR	2013 - 2015
• PsyDoc - Interest organisation for PhDs and PostDocs.	

Teaching & Dissemination

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

UNIVERSITY

University of Oslo	<i>Oslo, Norway</i>
SEMINAR TEACHER	2012 - 2015
• Introduction to research methods (PSY1010/PSYC1100)	
• Experimental Cognitive Psychology (PSYC2102)	
University of Oslo	<i>Oslo, Norway</i>
SUPERVISOR	2012 - 2015
• Bachelor thesis	
University of Oslo	<i>Oslo, Norway</i>
SEMINAR TEACHER	2009 - 2011
• Introduction to research methods (PSY1010/PSYC1100)	
• Introduction to social psychology (PSY1100)	

WORKSHOPS

Monthly internal R-workshops for LCBC	<i>Center for Lifespan Changes in Brain and Cognition</i>
INSTRUCTOR	Monthly 2018 - present
• 2 hour workshops in using R for analysis, visualization, dissemination etc.	
Workshop: Straightforward introduction to mixed models ()	<i>Oslo UseR!</i>
INSTRUCTOR	June 5, 2019
• A short workshop in the use of Mixed-models for repeated measurement data	
Linear Mixed models on repeated measurement data ()	<i>R-Ladies London</i>
INSTRUCTOR	March 28, 2019
• A short workshop in the use of Mixed-models for repeated measurement data	
TidyVerse R ()	<i>University of Oslo - Software Carpentry</i>
CO-INSTRUCTOR	Sept. 25 - 26, 2018
• Two-day workshop on using R and the Tidyverse-packages for data handling and analysis	

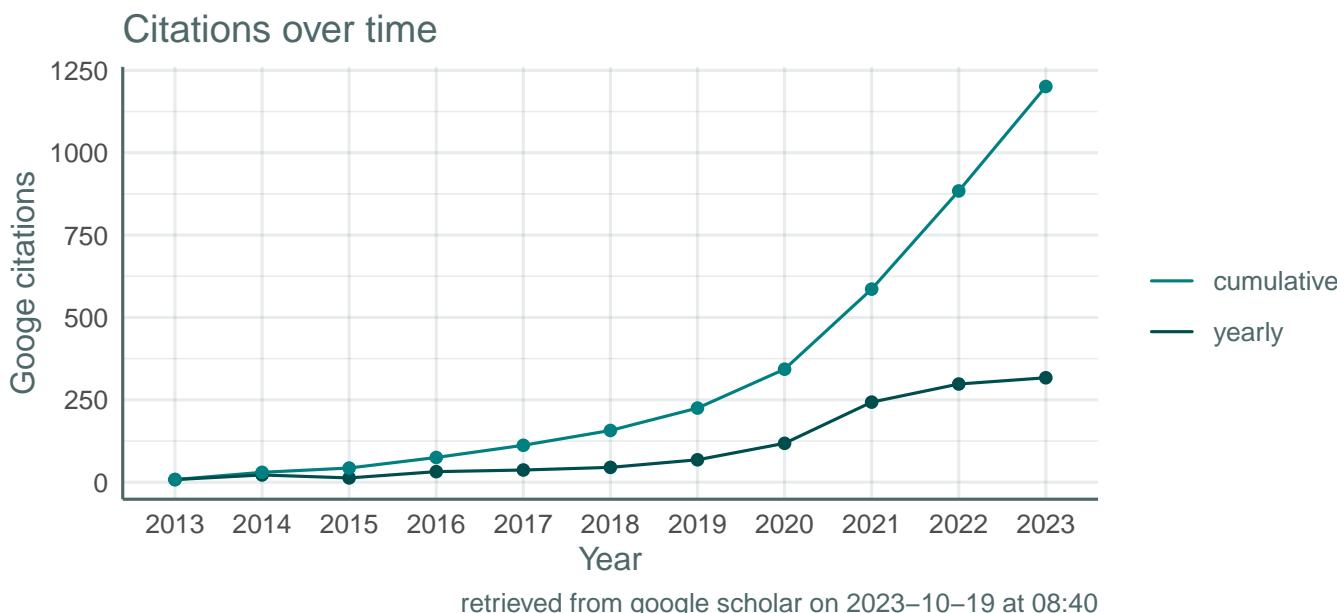
Research software development

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.



- 2023 AM Fjell, Ø Sørensen, Y Wang, IK Amlien, WFC Baaré, D Bartrés-Faz, et al.
No phenotypic or genotypic evidence for a link between sleep duration and brain atrophy
Nature Human Behaviour 115 cites: 1
- 2023 L Raud, MH Sneve, D Vidal-Piñeiro, Ø Sørensen, L Folvik, HT Ness, et al.
Hippocampal-cortical functional connectivity during memory encoding and retrieval
NeuroImage 279 120309 cites: 0
- 2023 D Vidal-Piñeiro, E Capogna, K Blennow, N Halaas, AV Idland, et al.
CSF neurodegeneration biomarkers predict MTL atrophy over time in cognitively healthy older adults
Alzheimer's and Dementia 19 e063166 cites: 0
- 2023 JM Roe, D Vidal-Pineiro, O Sorensen, H Grydeland, EH Leonardsen, et al.
Accelerated brain change in healthy adults is associated with genetic risk for Alzheimer's disease and uncovers adult lifespan memory decline
bioRxiv 202310 09559446 Preprint cites: 0
- 2023 AM Fjell, Ø Sørensen, Y Wang, IK Amlien, WFC Baaré, D Bartrés-Faz, et al.
Sleep duration and brain atrophy-phenotypic associations and genotypic covariance
Nature Human Behaviour cites: 0
- 2022 KB Walhovd, AM Fjell, Y Wang, IK Amlien, AM **Mowinckel**, et al.
Education and income show heterogeneous relationships to lifespan brain and cognitive differences across European and US cohorts
Cerebral cortex 32 4 839854 cites: 30
- 2022 I Budin-Ljøsne, AM **Mowinckel**, BB Friedman, KP Ebmeier, CA Drevon, et al.
Public perceptions of brain health: an international, online cross-sectional survey
BMJ open 12 4 e057999 cites: 9
- 2022 D Vidal-Piñeiro, Ø Sørensen, K Blennow, E Capogna, NB Halaas, et al.
Relationship between cerebrospinal fluid neurodegeneration biomarkers and temporal brain atrophy in cognitively healthy older adults
Neurobiology of Aging 116 8091 cites: 4
- 2022 ACS Bråthen, Ø Sørensen, AMG De Lange, AM **Mowinckel**, AM Fjell, et al.
Cognitive and hippocampal changes weeks and years after memory training
Scientific Reports 12 1 7877 cites: 4
- 2022 C Solé-Padullés, D Macià, M Andersson, M Stiernstedt, S Pudas, S Düzel, et al.
No association between loneliness, episodic memory and hippocampal volume change in young and healthy older adults: a longitudinal European multicenter study
Frontiers in Aging Neuroscience 14 795764 cites: 3
- 2022 J Binnewies, L Nawijn, AM Brandmaier, WFC Baaré, D Bartrés-Faz, et al.
Associations of depression and regional brain structure across the adult lifespan: Pooled analyses of six population-based and two clinical cohort studies in the European ...
NeuroImage: Clinical 36 103180 cites: 3
- 2022 KB Walhovd, SK Krogsrud, IK Amlien, Ø Sørensen, Y Wang, ACS Bråthen, et al.
Back to the future: omnipresence of fetal influence on the human brain through the lifespan
bioRxiv 202212 02514196 Preprint cites: 2

2022	RB Carver, NAG Fredheim, AM Mowinckel , KP Ebmeier, BB Friedman, et al. <i>People's interest in brain health testing: Findings from an international, online cross-sectional survey</i> Frontiers in Public Health 10 998302	cites: 2
2022	AM Fjell, Ø Sørensen, Y Wang, IK Amlien, WFC Baaré, D Bartrés-Faz, et al. <i>Sleep duration and brain structure-phenotypic associations and genotypic covariance</i> bioRxiv 202202 15480501	Preprint cites: 2
2022	JM Roe, D Vidal-Piñeiro, Ø Sørensen, AM Brandmaier, S Düzel, et al. <i>Author Correction: Asymmetric thinning of the cerebral cortex across the adult lifespan is accelerated in Alzheimer's disease</i> Nature Communications 13	cites: 2
2022	KB Walhovd, L Nyberg, U Lindenberger, IK Amlien, Ø Sørensen, Y Wang, et al. <i>Brain aging differs with cognitive ability regardless of education</i> Scientific Reports 12 1 13886	cites: 1
2022	D Vidal-Piñeiro, Y Wang, SK Krogsrud, IK Amlien, WFC Baaré, et al. <i>Correction: Individual variations in 'Brain Age'relate to early-life factors more than to longitudinal brain change</i> Elife 11 e79475	cites: 0
2021	D Vidal-Piñeiro, Y Wang, SK Krogsrud, IK Amlien, WFC Baaré, et al. <i>Individual variations in 'brain age'relate to early-life factors more than to longitudinal brain change</i> elife 10 e69995	cites: 62
2021	JM Roe, D Vidal-Piñeiro, 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 1 721	cites: 60
2021	AM Fjell, Ø Sørensen, IK Amlien, 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: 21
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: 12
2021	SK Krogsrud, AM Mowinckel , D Sederevicius, D Vidal-Piñeiro, IK Amlien, et al. <i>Relationships between apparent cortical thickness and working memory across the lifespan-effects of genetics and socioeconomic status</i> Developmental cognitive neuroscience 51 100997	cites: 10
2021	AM Fjell, H Grydeland, Y Wang, IK Amlien, D Bartres-Faz, AM Brandmaier, et al. <i>The genetic organization of longitudinal subcortical volumetric change is stable throughout the lifespan</i> elife 10 e66466	cites: 10
2021	D Vidal-Piñeiro, MH Sneve, IK Amlien, 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: 4
2021	L Vaqué-Alcázar, MR Cabello-Toscano, T Gorbach, K Abellaneda-Pérez, et al. <i>Decision-tree-testing cognition-MRI associations to define and differentiate cognitive reserve and brain maintenance</i> Alzheimer's and Dementia 17 e056074	cites: 0
2020	AM Mowinckel , D Vidal-Piñeiro <i>Visualization of Brain Statistics With R Packages ggseg and ggseg3d</i> Advances in Methods and Practices in Psychological Science 3 4 466483	cites: 141
2020	D Vidal-Piñeiro, 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 21803	cites: 80
2020	AM Fjell, Ø Sørensen, IK Amlien, 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: 58
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: 27
2020	VM Danielsen, D Vidal-Piñeiro, 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: 23
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: 12
2020	AM Fjell, Ø Sørensen, IK Amlien, D Bartrés-Faz, AM Brandmaier, 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 202004 28065474	Preprint cites: 1
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 21158	cites: 0
OCTOBER, 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: 32
	D Vidal-Piñeiro, MH Sneve, LH Nyberg, AM Mowinckel , D Sederevicius, et al. <i>Maintained frontal activity underlies high memory function over 8 years in aging</i>	4