Curriculum Vitae Nicole Walasek

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https://github.com/Nicole-Walasek - https://twitter.com/NicoleWalasek - https://osf.io/3gfw7/ born 18th February, 1992 in Nordhorn, Germany – nationality: German

EDUCATION

09/2022	Doctorate of Philosophy (PhD) <i>Radboud University, Nijmegen, Netherlands</i> Subject: Mathematical Modeling of Evolution, Development & Behavior
	link to dissertation
2017	Master's of Science (MSc) Radboud University, Nijmegen, Netherlands
	Subject: Computing Science with specialization in Data Science (cum laude)
2015	Bachelor's of Science (BSc) University of Osnabrück, Osnabrück, Germany
	Subject: Cognitive Science Grade: 1,1 (excellent)
	Main fields: Neuroinformatics, Computer Science, Mathematics, Artificial Intelligence, Cognitive Neuropsychology
2011	Abitur (University Entrance Diploma) Burg Gymnasium Bad Bentheim, Bad Bentheim, Germany
	Best of the year, grade: 1,0 (excellent) Advanced courses: Mathematics, Chemistry, English

ACADEMIC POSITIONS

04/2024 – 03/2026	Postdoctoral Researcher University of Amsterdam, Evolutionary and Population Biology, Netherlands Advisor: dr. Willem Frankenhuis
04/2022 – 03/2024	Postdoctoral Researcher Utrecht University, Developmental Psychology, Netherlands
	Advisor: dr. Willem Frankenhuis

PhD Candidate

Radboud University, Behavioural Science Institute, Nijmegen, Netherlands

PhD in Mathematical Modeling of Evolution, Development & Behavior Topic: *Evolution and development of sensitive periods in varying environments* Advisors: dr. Willem Frankenhuis, dr. Karthik Panchanathan, prof. dr. Toon Cillessen

CONFERENCES, WORKSHOPS & OTHER RESEARCH VISISTS

Presentations

04/2024	Invited keynote at the annual individualization symposium ZIF (Centre for interdisciplinary research), Bielefeld, Germany
	Invited by prof. dr. Barbara Caspers
11/2023	CBEN conference Utrecht, Netherlands
	The Cognition, Behavior & Evolution Network Chair of the organizing committee Theme: The interplay between evolution, behavior, and development
10/2023	Invited talk at Hartley Lab, New York University Online
	Invited by dr. Catherine Hartley
08/2023	ECDP conference Turku, Finland
	European Conference on Developmental Psychology Individual talk on quantifying environmental statistics across development Part of an accepted symposium on <i>Modeling Sensitive Periods of</i> <i>Development</i>
07/2023	ISDP conference Utrecht, Netherlands
	Meeting of the international society for developmental psychobiology Presenter at and chair of symposium 'Plasticity across the lifespan – The <i>when, why,</i> and <i>how</i> of sensitive periods at later life stages' This symposium was sponsored by the Columbia University Department of Psychiatry
05/2023	Rita Vuyk Lecture – Developmental Psychology Amsterdam, Netherlands
	Invited lecture for the University of Amsterdam (UvA)

05/2023	Sungkyunkwan University (SKKU) Seoul, South Korea
	Invited talk by dr. Daeun Park
03/2023	Invited talk at CHANGE, Leiden University Leiden, Netherlands
	Invited by dr. Ili Ma
07/2022	Workshop at ESLR Amsterdam, Netherlands
	Organized workshop on stochastic dynamic programming Topic: Evolution and development of sensitive periods Link to materials
07/2022	Future of game theory workshop Plön, Germany
	Organized by Prof. John McNamara
04/2022	Brown bag (VU Amsterdam) online
	Invited by Dr. Björn Lindström
04/2022	EHBEA online
	European Human Behaviour & Evolution Society
03/2022	Institute of Child Development (University of Minnesota) online
	Invited by Prof. Glenn Roisman
01/2022	Behavior and Evolution Seminar (Bielefeld) online
	Invited by Dr. Irene Godoy
11/2021	DMCA online
	Decision-making in the context of adversity meeting
06/2021	HBES 2021 online
	Human Behavior and Evolution Society
03/2021	Youth Development Institute online
	Invited by Dr. Assaf Oshri

01/2021	ASAB twitter conference online
	Twitter conference of the Association of the Study of Animal Behaviour
12/2020	ASAB winter meeting online
	Winter conference of the Association of the Study of Animal Behaviour
11/2020	CBEN conference online
	The Cognition, Behavior & Evolution Network
04/2020	Theory Meeting at the University of Bristol online
	Invited by dr. Sinead English
03/2020	workshop: 'The mouse in the supermarket' Frauenchiemsee, Germany
	Seminar on formal modeling of evolution and development funded by the workshop grant within the Kurswechsel program (Change of direction)
08/2019	Max Planck Institute for Evolutionary Anthropology Leipzig, Germany
	Invited by and presented for prof. dr. Richard McElreath's lab group
06/2019	HBES 2019 Boston, United States
	Human Behavior and Evolution Society
12/2018	Invited research meeting CRTD, TU Dresden, Germany
	Invited by prof. dr. Gerd Kempermann from the Center for Regenerative Therapies at the TU Dresden to discuss the emergence of individual differences in genetically identical mice
02/2017	CLIN 27 Leuven, Belgium
	Computational Linguistics in the Netherlands
Posters	
11/2019	CBEN conference Amsterdam, Netherlands
	The Cognition, Behavior & Evolution Network

Topic: Bounded Rationality in a Digital World

HONORS & AWARDS

12/2023	ODISSEI LISS Panel Grant (2023) Cognitive strengths and deficits in adverse conditions: A balanced view
	Main applicant: Stefan Vermeent Co-applicants: Nicole Walasek & Willem. E. Frankenhuis €39,500
04/2023	Columbia University Department of Psychiatry Sponsored Symposium at ISDP 2023
	International Society for Developmental Psychobiology
	3000\$ to be distributed across the symposium speakers
01/2023	NWO Scientific Meetings and Consultations grant Dutch Science Foundation
	3250€ to organize CBEN 2023
06/2021	Nominated for young investigator award at HBES 2021
06/2019	Best poster award at the Summer Institute on Bounded Rationality Max Planck institute for Human Development, Berlin
	First prize (350€) for the best poster
04/2015 – 08/2015	ERASMUS grant
	To visit the CVC in Barcelona for an internship
10/2014	Deutschlandstipendium (Germany Scholarship)
	One-year scholarship for excellent grades
04/2014 - 08/2014	Mobilitätszuschussstipendium University of Osnabrück
	Scholarship enhancing the mobility of outstanding students awarded by the University of Osnabrück
10/2013	Deutschlandstipendium (Germany Scholarship)
	One-year scholarship for excellent grades
07/2011	Admittance into the Deutsche Physikalische Gesellschaft
	Award for high-school graduates for outstanding performance in Physics

WORK EXPERIENCE

Teaching

2023-2024	Teaching assistant Advanced Research Methods and Statistics for Psychology Utrecht University
	Involvement in two modules: <i>Using Bayesian statistics</i> and <i>Analyzing</i> Categorical and Ordinal data
2022-2024	Bachelor and master theses supervision Utrecht University
	Supervision of eight psychology bachelor students and four clinical psychology master students
2016, 2018, 2019, 2020	Teaching Assistant for advanced statistics at the BSI Behavioral Science Institute, Radboud University (Research Master Behavioural Science)
	The entire course spans one academic year and is divided into the following submodules:
	Statistics: Multivariate Analysis* Course content included, but was not limited to linear and logistic regression, hierarchical loglinear analysis, repeated measures analyses of variance and covariance, and discriminant function analysis, principal component analysis, and exploratory factor analysis.
	Statistics: Analyzing in R* Course content included, but was not limited to data management and issues associated with pre-processing of data. Specific attention is paid to the visualization of data, both in terms of descriptive and inferential results. Furthermore, the course expanded upon the concepts and analytic techniques described in the previous course.
	<i>Statistics: Mixed-effects Models</i> Course content included theoretical understanding and statistical implementation of linear mixed effects models in <i>R</i> .
	Statistics: Structural Equation Modelling Course content included the design, implementation, and interpretation of structural equation models, including path models, factor analyses, mediation, moderation, and crossed legged panels.
	* In 2018 the two courses were merged into <i>Advanced Statistics in R</i> . The new course uses the book Serious stats: A guide to advanced statistics for the behavioral sciences (Baguley, T.,2012) and covers the previous topics, as well as an introduction to Bayesian regression with brms.
2017, 2020	General introduction to Psychology Radboud University, Nijmegen
	Course for Psychology Bachelor students Workgroup teacher

2019	Introduction to Artificial Intelligence (practical) Radboud University, Nijmegen
	Course for Artificial Intelligence Bachelor students Teaching assistant: assistance in practical sessions to implement search algorithms within a game environment in Python
2019	Statistics I Radboud University, Nijmegen
	Course for Psychology Bachelor students Workgroup teacher: Introduction to statistics in behavioral research
2018	Development and Health Radboud University, Nijmegen
	Course for Psychology Bachelor students Workgroup teacher
2014	Teaching Assistant for Mathematics University of Osnabrück
	Course for Cognitive Science Bachelor students Preparing and giving a weekly math tutorial Correcting homework Preparing the students for the exam
2012, 2013, 2014	Teaching Assistant for Statistics University of Osnabrück
	Course for Cognitive Science and Psychology Bachelor students Supervision of the weekly practice sessions
Internships	
09/2016 – 12/2016	Internship at TNO The Hague, Netherlands
	Project on entity extraction in the medical domain
04/2015 – 08/2015	Internship at the CVC Universitat Autonoma de Barcelona
	Learning and machine perception group (LAMP)
04/2014 - 08/2014	Internship at the Nicolelis Laboratory Duke University, Durham, USA
	Decoding neural signals for Brain Computer Interfaces using Reservoir Computing (also thesis topic)
Reviewing	
	Evolution and Human Behavior Royal Society Open Science Peer Community in Evolutionary Biology The Quarterly Review of Biology

ACADEMIC SERVICE

11/2023	Organized the Cognition, Behavior, and Evolution (CBEN) network meeting Utrecht, Netherlands
09/2019 – 10/2021	Colloquium Committee member Behavioural Science Institute, Radboud University, Nijmegen
	Selection of and support for colloquia, symposia & workshops organized at the BSI

PEER-REVIEWED ARTICLES

- Van Dongen, N. N. et al. (2024) Practicing Theory Building in a Many Modelers Hackathon: A Proof of Concept. *Meta Psychology, in press.* <u>https://doi.org/10.31234/osf.io/r5yfz</u>
- Walasek, N., Young, E. S., & Frankenhuis, W. E. (2023) A framework for studying environmental statistics in developmental science. *Psychological Methods, in press.* <u>https://doi.org/10.31234/osf.io/fr87n</u>
- Walasek, N., Frankenhuis, W. E., & Panchanathan, K. (2022b) Sensitive periods, but not critical periods, evolve in a fluctuating environment: a model of incremental development. *Proceedings of the Royal Society B: Biological Sciences, 289,* 20212623. <u>https://doi.org/10.1098/rspb.2021.2623</u>
- Walasek, N., Frankenhuis, W. E., & Panchanathan, K. (2022a). An evolutionary model of sensitive periods when the reliability of cues varies across ontogeny. *Behavioral Ecology*, 33(1), 1–14. <u>https://doi.org/10.1093/beheco/arab113</u>

featured in: Gee, D. G. (2022). When do sensitive periods emerge later in development? *Trends in Cognitive Sciences*, *26*(2), 97–98. https://doi.org/10.1016/j.tics.2021.12.001

- Frankenhuis, W. E., & Walasek, N. (2020). Modeling the evolution of sensitive periods. *Developmental Cognitive Neuroscience*, 41, 100715. <u>https://doi.org/10.1016/j.dcn.2019.100715</u>
- Johannes, N., Meier, A., Reinecke, L., Ehlert, S., Setiawan, D. N., Walasek, N., Dienlin, T., Buijzen, M., & Veling, H. (2020). The relationship between online vigilance and affective well-being in everyday life: Combining smartphone logging with experience sampling. *Media Psychology*, 1–25. <u>https://doi.org/10.1080/15213269.2020.1768122</u>
- Setio, A. A. A. et al. (2017). Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: the LUNA16 challenge. *Medical Image Analysis*, 42, 1-13. <u>https://repository.ubn.ru.nl/handle/2066/179531</u>

van Oortmerssen, G., Raaijmakers, S., Sappelli, M., Boertjes, E., Verberne, S., **Walasek, N.**, & Kraaij, W. (2017). Analyzing cancer forum discussions with text mining. In: Riano D., Peleg M., Lenz R., Reichert M., Denecke K., Deng Y., Declerck T., Harmelen F. van (red.) *Proceedings of the International Joint Workshop KR4HC -ProHealth 2017 (in conjunction with AIME 2017)*, 127-130.

ADDITIONAL QUALIFICATIONS

Languages

English	fluent
German	native
Dutch	basic knowledge (B1)

Programming languages and software

Python, R, Matlab, Java, Prolog, SPSS, LaTeX

Selected analysis techniques

Stochastic Dynamic Programming, Bayesian inference, Deep learning, Reinforcement Learning, Machine Learning