NADJA R. GING-JEHLI

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SHORT PROFILE

- Self-driven first-generation college and PhD student
- Dedication to interdisciplinary scientific inquiry (computational model-based cognitive neuroscience and computational psychiatry)
- · Strong mathematical background and expertise in computational modeling
- Several years of experience in behavioral experimental research

ACADEMIC BACKGROUND

PhD in Psychology, The Ohio State University Columbus, OH USA	2017 – 2 (e	022 xpected)
Advisor committee: Patricia Van Zandt (main advisor), L. Eugene Arnold, Brandon Turner, Jay Myung Master of Arts in Psychology, The Ohio State University	2017 – 2	019
Columbus, OH USA	2017 — 2	.017
Master's thesis: "On the implementation of Computational Psychiatry within the framework of Cognitive Psychology and Neuroscience" Advisor committee: Patricia Van Zandt, L. Eugene Arnold, Roger Ratcliff		
Additional coursework in Psychology, University of Zurich Zurich, Switzerland	2016 – 2	017
Biological Psychology I & II, Neuroeconomics, Social Psychology I & II (Neuroscience, Immunology, Genetics, Epigenetics, Endocrinology)		
Master of Arts in Economics, University of Zurich with Minor in Behavioral and Experimental Economics Zurich Switzerland	2015 – 2	017
Graduation with honors: magna cum laude Master's thesis: "Situational determinants of social preferences" Advisor: Ernst Fehr		
Additional coursework in Mathematics, Swiss Federal Institute of Technology (ETH) Zurich Switzerland	2014 – 2	015
Real Calculus I & II, Linear Algebra I & II		
Bachelor of Arts in Economics, University of Zurich Zurich, Switzerland	2012 - 2	014
Graduation with honors: magna cum laude Bachelor's thesis: "Generosity across economic contexts" Advisor: Roberto A. Weber		
Bachelor of Science in Business Administration , <i>Zurich University of Applied Sciences (ZHAW)</i> Winterthur, Switzerland	2008 - 2	012
Graduation with honors: Dean's List Award in recognition of outstanding academic achievement Awarded with the Rieter-Award for the best Bachelor Thesis in 2012: "How corporate governance of a consultancy can benefit from findings in behavioral economics – How implicit incentive signals influence intrinsic motivation"		
Industrial Psychology with Certificate from KLZ, Commercial Learning School (KLZ) Zurich, Switzerland	2007 - 2	800
Human Resources Advisor with Certificate, AKAD School of Business Zurich, Switzerland	2006 - 20	007
Apprenticeship with Vocational Baccalaureate Diploma , <i>Graubündner Kantonalbank</i> Chur, Switzerland	2004 – 2	007

PROFESSIONAL EXPERIENCE

The Ohio State University 8/2017 - 2022 PhD in Psychology, Columbus, OH USA (expected) Independently designing and piloting cognitive and social-cognitive tasks to study individuals' cognitive and social-cognitive flexibility Applying diffusion decision models (DDMs) to link the behavioral measures from neurocognitive tests with neuronal data like electroencephalogram (EEG) Using attentional diffusion decision models (aDDMs), in conjunction with eye tracking, to understand attentional biases under stress Analyzing experimental data from non-clinical and clinical studies using different computational models and machine learning algorithms Analyzing existing clinical datasets (e.g., autism spectrum disorder, attention-deficit hyperactivity disorder from neurocognitive tests with DDMs) Collecting and analyzing EEG and eye-tracking data Learning the use of neurofeedback for ADHD Programming and conducting studies using fMRI, EEG, and eye-tracking Administering semi-structured clinical interviews (K-SADS) University of Zurich 7/2013 - 1/2017Research Assistant (20-40% employment), Zurich, Switzerland Chair of Behavioral Economics (Prof. Roberto Weber), Department of Economics Directing several independent research projects Analyzing experimental and field data with STATA Programming experiments with "z-Tree" Assisting in designing and conducting experiments at the Economics Laboratory Conducting literature research, surveys, field and online studies Swiss Federal Institute of Technology (ETH) 11/2013 - 7/2017Laboratory Assistant (20% employment), Zurich, Switzerland Decision Science Laboratory, Department D-GESS, Behavioral Studies Responsible for checking experiments programmed with z-Tree Writing codes for PowerShell in order to run experiments Independently conducting laboratory experiments Assistance in conducting laboratory experiments Helping others with programming experiments with "z-Tree" Statistical Bureau, City of Zurich Internship as Research Assistant (60% employment), Zurich, Switzerland 7/2013 - 9/2013Fehr Advice & Partners AG 3/2012 - 2/2013Junior Consultant & Executive Assistant (50% employment), Zurich, Switzerland 7/2007 - 2/2012UBS AG (100% employment) Client Advisor Assistant, Executives/Entrepreneurs Private Banking, Zurich, Switzerland 3/2011 - 2/2012Individual Client Advisor, Rüschlikon, Switzerland 9/2008 - 2/2011General Client Advisor, Zollikerberg, Switzerland 7/2007 - 8/2008Graubündner Kantonalbank 8/2004 - 6/2007Apprenticeship with Vocational Maturity Diploma, Chur, Switzerland

PUBLICATIONS

Published Articles

- "Improving Neurocognitive Testing using Computational Psychiatry A Systematic Review for **ADHD**" Ging-Jehli, N.R., Ratcliff, R., Arnold, L.E. (2020). Psychological Bulletin.
- "Effects of **aging** in a **task-switch paradigm** with the **diffusion decision model**" <u>Ging-Jehli, N.R.</u>, Ratcliff, R. (2020). Journal of Psychology and Aging.
- "Exploring **cholesterol** supplementation for **autistic symptoms** in Children with Low Cholesterol" <u>Ging-Jehli, N.R.</u>, Deepa, M., Hollway J., Hurt, E., Moone, S., Arnold, L.E. (2020). Journal of Developmental and Physical Disabilities.
- "On self-serving strategic beliefs" Ging-Jehli, N. R., Schneider, F. H., Weber, R. A. (2020). Journal of Games and Economic Behavior.

Articles Under Review

- "Latent cognitive components moderate neurofeedback response in ADHD A computational modeling analysis of a randomized clinical trial" <u>Ging-Jehli, N.R.</u>, Kraemer, H., Arnold, L.E., Roley-Roberts, M.E., deBeus, R. (submitted).
- "Using the Diffusion Decision Model to understand and address different cognitive profiles of attention-deficit hyperactivity disorder (ADHD)" Ging-Jehli, N.R., Arnold, L.E., Roley-Roberts, M.E., deBeus, R. (submitted).
- "Neurofeedback treatment for **ADHD** improves **cognitive deficits** a **computational modeling** analysis of neurocognitive mechanism" <u>Ging-Jehli, N.R.</u>, Arnold, L.E., deBeus, R., Kerson, C., Roley-Roberts, M.E., Panchyshyn, C. (submitted).
- "Comorbid anxiety and disruptive behavior disorders but not **ADHD presentation moderate neurofeedback** effect in children with ADHD" Roley-Robert, M.E., Bergman, R., Pan, X., Tan, Y., Hendrix, K., deBeus, R., Kerson, C., Arns, M., Ging-Jehli, N.R., Connor, S., Shrader, C., Arnold, L.E. (submitted).

Working Papers

"Generosity across contexts," Davis, A. L., Jehli, N. R., Miller, J. H., & Weber, R. A., University of Zurich, 2015, working paper.

CURRENT PROJECTS

Neurocognitive study using own developed social and cognitive tasks and a new joint-modeling approach to integrate behavioral responses, eye tracking, and EEG

The effects of stress on visuo-spatial attention and social decision-making using eye tracking

Applying the Diffusion Decision Model and Machine Learning Algorithms to the Neuropsychological Test Performances and **EEG resting state activity** in an **ADHD** Sample from the **MTA study**

Connectivity analysis using EEG from auditory oddball tasks from the ICAN and the MTA study

REVIEWS FOR JOURNALS

Clinical EEG and Neuroscience; European Child & Adolescent Psychiatry; Journal of Autism and Developmental Disorders; Neuropsychology; Psychological Medicine

GRANTS

HONORS/AWARDS

Swiss National Science Foundation Graduate Fellowship, Switzerland	2019 – 2020	
University Fellowship, The Ohio State University, USA	2017 - 2018	
Graduation with honor: magna cum laude, University of Zurich, Switzerland	2017	
Graduation with honor: magna cum laude, University of Zurich, Switzerland	2014	
Named to the Dean's List in recognition of outstanding academic achievements, Switzerland	2012	
Awarded the Rieter-Prize for the best Bachelor Thesis in 2012, Switzerland	2012	
ACADEMIC PRESENTATION		
Oral Presentation "Neurocognitive subtyping of ADHD by Computational Psychiatry", at the International Conference on ADHD by CHADD	2020	
Oral Presentation "Using Computational Modeling as a Moderator Analysis to Understand the Benefits of Neurofeedback for ADHD", at the American Academy of Child and Adolescent Psychiatry	2020	
Poster Presentation "Computational Psychiatry: Studying ADHD in neurocognitive tests", at the Society for Neuroscience Conference, Chicago, IL	2019	
Oral Presentation "ADHD/ASD – A different way how to perceive the world", at the Cincinnati Children's Hospital Medical Center	2019	
Poster Presentation "On the implementation of computational psychiatry to study ADHD", at the Institute for Behavioral Medicine Research Conference, The Ohio State University, USA	2019	
Poster Presentation "Generosity across contexts" at the Social Norms and Institutions, International Conference at the Congressi Stefano Franscini (CSF) of ETH Zurich, Ascona	2015	
TEACHING/MENTORING EXPERIENCE		
Graduate Teaching Associate, The Ohio State University Preparation and presentation of lectures, preparing syllabi, preparing homework and quizzes, supervision of group work, grading homework, assignments, tests and quizzes. Both courses are undergraduate and graduate level courses. PSYCH5613H: Biological Psychiatry PSYCH5614: Cognitive Neuroscience	2021	
Educating and advising three undergraduate research assistants in how to collect and analyze EEG and eye-tracking data and how to simultaneously integrate them in computational models in the own funded "Neurocognitive Study"	2020	
Educating and advising two undergraduate research assistants in how to collect and analyze behavioral computer-based experiments	2019	
Educating and advising undergraduate research assistants in the conductance of Eye-tracking studies in Prof. Dr. Ian Krajbich's Neuroeconomics Lab	2018	

TECHNICAL/PROGRAMMING SKILLS

Statistical software: Proficient in **R**; Advanced in **STATA**, **SPSS**, Knowledge in **SAS**Proficient in **z-Tree (C++)** (Programming Language for Economic Experiments)

Proficient in MATLAB, MATLAB Psychtoolbox, EEGLAB, Signal Processing Toolbox

Advanced in Python, LATEX, Fortran, Stan

Advanced in conducting **eye tracking** studies using **eyelink and gazepoint** as well as **full-cap EEG studies**Knowledge in conducting **fMRI** studies

European Computer Driving License (ECDL-Certificate) and Swiss IT Certificate (SIZ II)

STATISTICAL/COMPUTATIONAL MODELING EXPERIENCE

Various computational modeling approaches (using non-Bayesian and Bayesian techniques),

Linear mixed modeling, moderator and mediator analyses, ANOVAs,

Simple and multivariate regressions,

Time-series and panel data analyses

machine learning approaches (e.g., support vector, clustering, logistic regression, neural networks)

LANGUAGE PROFICIENCY

German – Native (Swiss citizen)

English - Full Professional Proficiency (oral and written); First Certificate in English; TOEFL iBT English Diploma (reading: 29 of 30, speaking: 28 of 30, listening: 28 of 30, writing: 28 of 30, total score: 113)

French - Full Professional Proficiency (oral and written); DELF A1, A2, A3 and A4

Italian - Basic (oral and written), DELI-diploma