

NADJA R. GING-JEHLI

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SHORT PROFILE

- High affinity for interdisciplinary scientific inquiry at the intersection of psychophysiology, neuroscience, social science (**computational model-based cognitive neuroscience** and **computational psychiatry**)
- **Strong mathematical background** and **expertise in computational modeling**
- Several years of **experience in experimental and behavioral economic research**
- Extraordinarily self-driven person who personally financed all academic training, in addition to work

ACADEMIC BACKGROUND

PhD in Psychology and Neuroscience, *The Ohio State University* (Current GPA: 3.99) 2019 – present
Columbus, OH USA

Advisor committee: Patricia Van Zandt (main advisor), L. Eugene Arnold, Brandon Turner, Jay Myung

Master of Arts in Psychology, *The Ohio State University* 2017 – 2019
with Specialization: Neuroscience
Columbus, OH USA

Master's thesis: "On the implementation of Computational Psychiatry within the framework of Cognitive Psychology and Neuroscience"

Advisor committee: Patricia Van Zandt, Roger Ratcliff, L. Eugene Arnold

Additional coursework in Psychology, *University of Zurich* 2016 – 2017
Zurich, Switzerland

Biological Psychology I & II, Neuroeconomics, Social Psychology I & II
(Neuroscience, Immunology, Genetics, Epigenetics, Endocrinology)

Master of Arts in Economics, *University of Zurich* (GPA: 3.53) 2015 – 2017
with Minor in Behavioral and Experimental Economics
Zurich Switzerland

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)* 2014 – 2015
Zurich Switzerland

Real Calculus I & II, Linear Algebra I & II

Bachelor of Arts in Economics, *University of Zurich* (GPA: 3.49) 2012 – 2014
Zurich, Switzerland

Graduation with honors: magna cum laude

Bachelor's thesis: "Generosity across economic contexts"

Advisor: Roberto A. Weber

Bachelor of Science in Business Administration, *Zurich University of Applied Sciences (ZHAW)* 2008 – 2012
Winterthur, Switzerland (GPA: A (best))

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)* 2007 – 2008
Zurich, Switzerland

Human Resources Advisor with Certificate, *AKAD School of Business* 2006 - 2007
Zurich, Switzerland

Apprenticeship with Vocational Baccalaureate Diploma, *Graubündner Kantonalbank* 2004 – 2007
Chur, Switzerland

PROFESSIONAL EXPERIENCE

The Ohio State University

8/2017 - present

PhD in Psychology and Neuroscience, Columbus, OH USA

- 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
- Analyzing existing clinical datasets (e.g., autism spectrum disorder, attention-deficit hyperactivity disorder from neurocognitive tests with DDMs)
- Assisting in the collection and analysis of EEG data
- Learning the use of neurofeedback for ADHD
- Programming and conducting studies using fMRI and eye-tracking

University of Zurich

7/2013 – 1/2017

Research 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 – 7/2017

Laboratory 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 – 9/2013

Fehr Advice & Partners AG

3/2012 – 2/2013

Junior Consultant & Executive Assistant (50% employment), Zurich, Switzerland

UBS AG (100% employment)

7/2007 – 2/2012

Client Advisor Assistant, Executives/Entrepreneurs Private Banking, Zurich, Switzerland

3/2011 – 2/2012

Individual Client Advisor, Rüschlikon, Switzerland

9/2008 – 2/2011

General Client Advisor, Zollikerberg, Switzerland

7/2007 – 8/2008

Graubündner Kantonalbank

8/2004 – 6/2007

Apprenticeship 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. (in press). Psychological Bulletin.

“Effects of aging in a task-switch paradigm with the diffusion decision model” Ging-Jehli, N.R., Ratcliff, R. (2020). Journal of Psychology and Aging.

“Exploring cholesterol supplementation for autistic symptoms in Children with Low Cholesterol” Ging-Jehli, N.R., 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

“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).

“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 WORK

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

Diffusion model analyses of neurocognitive testing as a moderator of treatment outcome of neurofeedback for attention-deficit hyperactivity disorder (ADHD)

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

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

GRANTS

Swiss National Science Foundation for implementing own research project
“Computational Psychiatry,” (CHF 3,000)

2019 – 2020

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 AND ADVISING

Educating and advising two 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 the own founded “OSU computational psychiatry workgroup”	2019
Educating and advising undergraduate research assistants in the conductance of Eye-tracking studies in Prof. Dr. Ian Krajbich's Neuroeconomics Lab	2018

ADDITIONAL SKILLS

Statistical software: Advanced in **STATA**, **SPSS** and **R**; Knowledge in **SAS**
 Proficient in **z-Tree (C++)** (Programming Language for Economic Experiments)
 Advanced in **MATLAB**, **MATLAB Psychtoolbox**;
 Knowledge in **Python**, **LATEX**, **Fortran**, **Stan**
European Computer Driving License (ECDL-Certificate) and Swiss IT Certificate (SIZ II)
 Advanced in conducting **eye tracking** studies using **eyelink** and **gazeport**
 Knowledge in conducting **fMRI** and **full-cap EEG** studies

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