

NADJA R. GING-JEHLI

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(Swiss citizen & Permanent US resident)

EXPERTISE OVERVIEW

- Developing & piloting a digital platform designed to comprehensively assess mental flexibility beyond traditional neurocognitive tests. By leveraging advanced AI technology, this platform aims to connect scientists, clinicians, and the public to enhance productivity and mental resilience in everyone, particularly benefiting individuals with ADHD, anxiety, and mood disorders.
- Experience in leading computational modeling cores on inter-institutional Conte Centers.
- Proficient in combining EEG and eye-tracking with advanced modeling techniques and experiments.
- Conducting experimental studies across clinical and non-clinical settings and across species.
- Deep expertise in statistics (Bayesian & Frequentist), machine learning, and modeling across analytical levels.
- Entrepreneurially inclined with a decade of industry experience in finance and consulting.
- Self-driven first-generation academic and college student.

ACADEMIC BACKGROUND

Postdoctoral Researcher , <i>Brown University</i> Providence, RI USA Computational Psychiatry & Cognitive and Social-Cognitive Neuroscience (Main Mentor: Michael J. Frank)	2022 – present
PhD in Psychology and Neuroscience , <i>The Ohio State University</i> with Specialization: model-based cognitive neuroscience Columbus, OH USA Dissertation: Characterizing adult attention-deficit hyperactivity disorder (ADHD) with a multidisciplinary computational approach including novel neurocognitive testing and physiological measures. Advisor committee: Patricia Van Zandt (main advisor; focus on Bayesian approaches), Brandon Turner, Jay Myung, L. Eugene Arnold (clinical advisor), Mary Fristad (second clinical mentor)	2019 – 2022
Master of Arts in Psychology , <i>The Ohio State University</i> with Specialization: cognitive psychology and neuroscience Columbus, OH USA Master's thesis: On the implementation of computational psychiatry within the framework of cognitive psychology and neuroscience. Advisor committee: Roger Ratcliff (main advisor; focus on frequentist approaches), Patricia Van Zandt, L. Eugene Arnold (clinical advisor)	2017 – 2019
Additional coursework in Psychology , <i>University of Zurich</i> Zurich, Switzerland Biological Psychology I & II, Neuroeconomics, Social Psychology I & II (Neuroscience, Immunology, Genetics, Epigenetics, Endocrinology)	2016 – 2017
Master of Arts in Economics , <i>University of Zurich</i> with Minor: behavioral and experimental economics Zurich Switzerland Graduation with honors: magna cum laude Master's thesis: Situational determinants of social preferences. Advisor: Ernst Fehr	2015 – 2017
Additional coursework in Mathematics , <i>Swiss Federal Institute of Technology (ETH)</i> Zurich Switzerland Real Calculus I & II, Linear Algebra I & II	2014 – 2015
Bachelor of Arts in Economics , <i>University of Zurich</i> Zurich, Switzerland Graduation with honors: magna cum laude Bachelor's thesis: Generosity across economic contexts. Advisor: Roberto A. Weber	2012 – 2014
Bachelor of Science in Business Administration , <i>Zurich University of Applied Sciences (ZHAW)</i>	2008 – 2012

Winterthur, Switzerland

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

Brown University, Providence, RI USA 09/2022 – present

Postdoctoral Researcher in Computational Psychiatry & Cognitive Neuroscience

- Leading interdisciplinary research team in independent, self-funded study on self-configuring neuropsychological assessments for faster diagnostics and treatment selection for ADHD and anxiety.
- Piloting a self-developed computer platform for assessments across cognitive & social domains
- Developing a unified modeling approach across behavioral and neurocomputational models
- Directing several independent research projects in the domain of computational psychiatry across disorders and species
- Consulting on computational modeling cores of Conte Centers on OCD and Depression

BGBehavior LLC, Providence, RI USA 02/2023 – present

Co-founder (Advisory Board member)

- Consulting in computational modeling, statistics, and cognitive psychology

The Ohio State University, Columbus, OH USA 08/2017 – 08/2022

PhD in Psychology and Neuroscience

- Designing, programming, and piloting multiple cognitive and social-cognitive tasks to study cognitive control, cognitive flexibility, and social-cognitive behavior
- Collecting and analyzing behavioral, electroencephalographic (EEG) and eye-tracking data
- Class project: collecting and analyzing functional magnetic resonance imaging data (fMRI)
- Experience in administering laboratory tasks to clinical and non-clinical populations (adults and children)
- Experience in computational modeling and machine learning
 - Applying machine learning algorithms and sequential sampling models to link behavioral model parameters from neurocognitive tests with EEG data and eye-tracking data (gaze and pupil measures)
 - Analyzing experimental data (e.g., task performance on go/no-go tasks, perceptual discrimination tasks, task-switch paradigms, economic choice tasks) from non-clinical and clinical studies using diffusion decision models, race diffusion models, ballistic accumulator models, ex-Gaussian distribution models, and reinforcement learning models
 - Programming of neural networks to understand potential different causes of autism spectrum disorders
- Experience in clinical research
 - Conduct own clinical study (from IRB submission to publication as PI)
 - Assisting in a randomized clinical trial for neurofeedback treatment for childhood attention-deficit hyperactivity disorder
 - Performing biostatistical analyses (e.g., linear mixed modeling, moderator and mediator analyses) for various non-pharmacological interventions for ADHD and for a pharmacological intervention for autism spectrum disorder
 - Independently conducting semi-structured clinical interviews (K-SADS) after being trained by medical doctors
 - Independently collecting and evaluating responses on various clinical questionnaires after being trained by clinicians and medical doctors

University of Zurich, (20-60% employment)	07/2013 – 01/2017
Research Assistant, Zurich, Switzerland	
Chair of Behavioral Economics (Prof. Roberto Weber), Department of Economics	
<ul style="list-style-type: none"> • 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 (20-40% employment)	11/2013 – 07/2017
Laboratory Assistant, Zurich, Switzerland	
Decision Science Laboratory, Department D-GESS, Behavioral Studies	
<ul style="list-style-type: none"> • Responsible for checking experiments programmed with z-Tree • Writing codes for PowerShell 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 (60% employment)	
Internship as Research Assistant, Zurich, Switzerland	07/2013 – 09/2013
<ul style="list-style-type: none"> • Data collection, preparation, and statistical analysis (SAS & Excel) 	
Fehr Advice & Partners AG (50-100% employment)	03/2012 – 02/2013
Chief of Staff & Consultant, Zurich, Switzerland	
<ul style="list-style-type: none"> • Junior Consultant in several client projects • supervision of 4 team assistants 	
UBS AG (100% employment)	07/2007 – 02/2012
Client Advisor Assistant, Executives/Entrepreneurs Private Banking, Zurich, Switzerland	03/2011 – 02/2012
<ul style="list-style-type: none"> • Worked closely with specialists from Investment Banking • supported Client Advisors 	
Individual Client Advisor, Rüslikon, Switzerland	09/2008 – 02/2011
<ul style="list-style-type: none"> • Managed own client book (business volume approx. CHF 140M) • Deputy for branch manager & trained apprentices in practice and in financial mathematics 	
General Client Advisor, Zollikerberg, Switzerland	07/2007 – 08/2008
Graubündner Kantonalbank (100% employment)	08/2004 – 06/2007
Apprenticeship with Vocational Maturity Diploma, Chur, Switzerland	

PUBLICATIONS

Published Articles

*Mentees

1. Strittmatter, Y., Spitzer, W.H., Ging-Jehli, N.R., Musslick, S. (2024). A jsPsych Touchscreen Extension for Behavioral Research on Touch-Enabled Interfaces. *Behavior Research Methods*.
2. Ging-Jehli, N.R., Kuhn, M., Blank, J.M., Chanthrakumar, P.*, Steinberger, D.C., Yu, Z., Herrington, T.D., Dillon, D.G., Pizzagalli, D.A., Frank, M.J. (2024). Cognitive signatures of depression, anhedonia, and affective states using computational modeling and neurocognitive testing. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.
3. Ging-Jehli, N.R., Arnold, L.E., Van Zandt, T. (2023). Cognitive & attentional mechanisms of cooperation – with implications for attention-deficit hyperactivity disorder and cognitive neuroscience. *Cognitive, Affective, & Behavioral Neuroscience*.

4. Ging-Jehli, N.R., Painter, Q.A.*, Kraemer, H., Roley-Roberts, M.E., Panchyshyn, C.*, deBeus, R., Arnold, L.E. (2023). A Diffusion Decision Model Analysis of The Cognitive Effects of Neurofeedback for ADHD. *Neuropsychology*.
5. Ging-Jehli, N.R., Kraemer, H., Arnold, L.E., Roley-Roberts, M.E., deBeus, R. (2023). Latent cognitive components moderate neurofeedback response in ADHD – A computational modeling analysis of a randomized clinical trial. *Journal of Clinical and Experimental Neuropsychology*.
6. 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. (2022). Comorbid anxiety and disruptive behavior disorders but not ADHD presentation moderate neurofeedback effect in children with ADHD. *Applied Psychophysiology and Biofeedback*.
7. Ging-Jehli, N.R., Arnold, L.E., Roley-Roberts, M.E., deBeus, R. (2022). Characterizing underlying cognitive components of ADHD presentations and co-morbid diagnoses – A diffusion decision model analysis. *Journal of Attention Disorders*.
8. Ging-Jehli, N.R., Ratcliff, R., Arnold, L.E. (2021). Improving Neurocognitive Testing using Computational Psychiatry – A Systematic Review for ADHD. *Psychological Bulletin*.
9. Ging-Jehli, N.R., Ratcliff, R. (2020). Effects of aging in a task-switch paradigm with the diffusion decision model. *Journal of Psychology and Aging*.
10. Ging-Jehli, N.R., Deepa, M., Hollway J., Hurt, E., Moone, S., Arnold, L.E. (2020). Exploring cholesterol supplementation for autistic symptoms in Children with Low Cholesterol. *Journal of Developmental and Physical Disabilities*.
11. Ging-Jehli, N.R., Schneider, F.H., Weber, R.A. (2020). On self-serving strategic beliefs. *Journal of Games and Economic Behavior*.
12. Davis, A. L., Jehli, N.R., Miller, J.H., & Weber, R.A. (2015). *Generosity across contexts*. CESifo Working Paper, No. 5272, Center for Economic Studies and ifo Institute (CESifo), Munich.

Manuscripts Under Review

13. Ging-Jehli, N.R., Cavanagh, J.F., Ahn, M., Segar, D.J., Asaad, W.F., Frank, M.J. (submitted). Distinct basal ganglia decision dynamics under conflict and uncertainty.
14. Ging-Jehli, N.R., Weigard, A. (submitted). Lumping versus splitting in mechanistic computational psychiatry models: integrating the search for specialized and task-general functions.
15. Ging-Jehli, N.R., Arnold, L.E., Sellers J.*, Van Zandt, T. (submitted). Broader visual processing and distinct pupil dynamics facilitate resolving perceptual conflict and compensate for ADHD distractibility.

Manuscripts In Preparation

16. Ging-Jehli, N.R., Rac-Lubashevsky, R., Bera, K., Frank, M.J. (in preparation). Disentangling mechanisms underlying working memory and learning alterations in psychopathology using computational phenotyping and model-based EEG.
17. Cole, C.R., Ging-Jehli, N.R., Suarez, J.V., Greenlee, J.D., Wessel, J.R., Zhang, J., Cavanagh, J.F., Narayanan N.S. (in preparation). Subthalamic nucleus theta stimulation boosts decision threshold.

Published Conference Abstracts

1. Ging-Jehli, N. R. (2023). Utility of Computational Phenotyping for Psychiatric Disorders With Low Essentiality: Empirical Findings for Attention-Deficit/Hyperactivity Disorder and Depressive Disorders. In *Neuropsychopharmacology* (Vol. 48, pp. 30-30).
2. Ging-Jehli, N. R., & Arnold, L. E. (2023). 13.3 Cognitive Role of EEG Theta/Beta-Ratio for Behavior: Accounting for ADHD Heterogeneity. *Journal of the American Academy of Child & Adolescent Psychiatry*, 62(10), S344.
3. Ging-Jehli, N., Arnold, L. E., Sellers, J.*, & Van Zandt, T. (2022). 30.3 Eye-Tracking, Gaze, and Pupil Dynamics in ADHD: Biofeedback Possibilities During Novel Perceptual Conflict Task. *Journal of the American Academy of Child & Adolescent Psychiatry*, 61(10), S323.

4. Painter, Q. A.*, [Ging-Jehli, N.](#), Arnold, L. E., Roley-Roberts, M. E., & Pan, X. J. (2022). 30.4 The Effect of ASD Features on Neurocognitive Change With Neurofeedback in ADHD: New ICAN Data. *Journal of the American Academy of Child & Adolescent Psychiatry*, 61(10), S323.
5. Roley-Roberts, M., Kerson, C., [Ging-Jehli, N.](#), & Pan, X. (2021). 30.2 Moderating Effects of Psychiatric Diagnoses on Neurofeedback for ADHD at 25-month Follow-up. *Journal of the American Academy of Child & Adolescent Psychiatry*, 60(10), S304.
6. [Ging-Jehli, N.](#), Arnold, L. E., deBeus, R., Roley-Roberts, M., & Kraemer, H. (2021). 30.4 Underlying Cognitive Components Respond to Neurofeedback For ADHD And Moderate Clinical Outcome. *Journal of the American Academy of Child & Adolescent Psychiatry*, 60(10), S305.
7. Arnold, L. E., Roley-Roberts, M. E., [Ging-Jehli, N.](#), Kerson, C., Pumphrey, K., & Loo, S. K. (2020). ADHD Neurofeedback 25-Month Follow-Up, Moderation of Response, and Neurocognitive Subtyping. In 2020 *Virtual Meeting*. AACAP.

CURRENT PROJECTS

- Developing an interactive game with self-configuring coaching elements to test different interventions for mood dysregulation and applicable for computational models to study hierarchical control across contexts
- A unified modeling approach, integrating sequential sampling models with neurocomputational models
- Characterize disorder-specific and transdiagnostic features across cognitive and social domains
- Neuronal and attentional signatures of attention-deficit/hyperactivity disorder (ADHD) within a novel cognitive flexibility task
- Computational phenotyping of obsessive-compulsive disorders (OCD) within approach-avoidance Processing context

SELECTED PUBLIC OUTREACH AND PRESS RELEASES

Interview on the weekly "Wellness Wednesday" show on "All Sides with Ann Fisher" - a live public affairs talk show on WOSU-NPR (89.7 FM) Radio in Columbus, Ohio. Link: [Radio Interview on Computational Psychiatry and ADHD - YouTube](#)

Interview with Psychiatry & Behavioral Health Learning Network (Magazine). Link: [Using Computational Models to Improve ADHD Diagnosis and Treatment \(hmpgloballearningnetwork.com\)](#)

Press coverage in *The Science Times*. Link: [Computational Models Could Help Diagnose Children with ADHD | Science Times](#)

Press release: [A pursuit of better testing to sort out the complexities of ADHD \(osu.edu\)](#)

AD HOC JOURNAL REVIEWS (N≥33)

Biological Psychiatry; Brain; Clinical EEG and Neuroscience; Cognitive, Affective, & Behavioral Neuroscience; Cognitive Science; European Child & Adolescent Psychiatry; Frontiers in Psychology; Journal of Autism and Developmental Disorders; Journal of Cognitive Neuroscience; Molecular Psychiatry; Nature Communications; NeuroImage; Neuropsychology; Neuroscience and Biobehavioral Reviews; Psychological Medicine; Science Advances

RESEARCH GRANTS

Carney Institute's Advancing Research Careers (ARC) program (NINDS/NIH) for implementing independent research project "smartphone-compatible perpetual game with mechanistic neurocognitive assessments" (Amount: USD 25,000)	2023 – 2025
Swiss National Science Foundation for implementing independent research project "Using Computational Psychiatry to explore transdiagnostic features of neurodevelopmental- and mood-related disorders" (Amount: CHF 10,000)	2023 – 2025
Swiss National Science Foundation for implementing independent research project: "Using Computational Psychiatry for Phenotyping ADHD" (Amount: CHF 3,000)	2019 – 2020

AWARDS AND HONORS

Travel Award for the American College of Neuropsychopharmacology (ACNP) conference (Amount: USD 1,000)	2023
ThinkSwiss & Fullbright Alumni Travel Award , Embassy of Switzerland in the USA (Amount: USD 500)	2023
Swiss National Science Foundation Postdoc Award , Switzerland (Amount: CHF 5300)	2023
Travel & Networking Award , Women of Mathematical Psychology (Amount: EUR 500)	2023
NIH Computational Psychiatry Postdoctoral Training (T32) , Brown University, USA (Amount: USD 113,680)	12/2022 – 09/2023
Presidential Fellowship , The Ohio State University, USA (Amount: USD 40,000)	08/2021 – 08/2022
Swiss National Science Foundation Graduate Fellowship , Switzerland (Amount: CHF 93,725)	01/2019 – 12/2020
University Fellowship , The Ohio State University, USA (Amount: USD 20,000)	08/2017 – 08/2018
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

CONFERENCE PRESENTATIONS

Poster Presentation “Underlying neurocomputational mechanisms of behavioral adaptability”, Cognitive Computational Neuroscience (CCN) Conference, Boston (USA)	2024
Poster Presentation “Integrating Mechanistic Neurocognitive Tests Across Disorders”, Computational Psychiatry Conference, Minnesota (USA)	2024
Poster Presentation “Using Computational Modeling to distinguish between anhedonia and depression”, 26 th annual Mind Brain Research Day, Brown University, Rhode Island (USA)	2024
Oral Presentation “Decoding Complexity: A Deep Dive into Mechanistic Computational Phenotyping for ADHD and Depression” at the American College of Neuropsychopharmacology (ACNP) Annual Conference, Tampa FL (USA)	2023
Oral Presentation “Combining mechanistic tasks with innovative sequential sampling models to different slow-down mechanisms” at the New England Research on Decision-Making (NERD) conference, Boston (USA)	2023
Oral Presentation “Cognitive Role of EEG Theta/Beta-Ratio for Behavior: Accounting for ADHD Heterogeneity” at the American Academy of Child and Adolescent Psychiatry (AACAP) conference, New York City (USA)	2023
Oral Presentation “Dissecting decision dynamics in the basal ganglia” at the Mathematical Psychology Conference, Amsterdam (NL)	2023
Poster Presentation “Multidimensional computational phenotyping of anhedonia & depression” at the Computational Psychiatry Conference, Dublin (IE)	2023
Poster Presentation “Broader visual processing and distinct pupil dynamics facilitate perceptual conflict and compensate for ADHD distractibility”, at the Mental Effort Workshop, Providence RI (USA)	2022

Oral Presentation	“Eye-tracking, Gaze, and Pupil Dynamics in ADHD: Biofeedback Possibilities during Novel Perceptual Conflict Task”, at the American Academy of Child and Adolescent Psychiatry (virtually), Toronto (CA)	2022
Oral Presentation	“Personalized medicine using computational psychiatry”, at the American Academy of Child and Adolescent Psychiatry (virtual due to COVID-19)	2021
Oral Presentation	“Neurocognitive subtyping of ADHD by Computational Psychiatry”, at the International Conference on ADHD by CHADD (virtual)	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 (virtual due to COVID-19)	2020
Poster Presentation	“Computational Psychiatry: Studying ADHD in neurocognitive tests”, at the Society for Neuroscience Conference, Chicago, IL (USA)	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, TI (CH)	2015

INVITED TALKS

Oral Presentation	“Promoting resilience with neurocomputational digital tools”, Invited talk at The Ohio State University, Department of Psychiatry & Behavioral Health, Columbus OH (USA)	2024
Oral Presentation	“Empowering mental health research & care with integrative neurocomputational, psychiatry tools”, Invited talk at the National Institute of Mental Health (Host: Daniel Pine), Washington DC (USA)	2024
Oral Presentation	“Integrative Computational Approaches for ADHD, mood disorders, and comorbidities – with implications for OCD”, Invited talk at the Functional Neuroimaging & Bioinformatics Lab, Harvard McLean, Boston (USA)	2024
Oral Presentation	“Integrative Approaches for Cognitive Neuroscience & Computational Psychiatry” Invited talk at the Translational Neuromodeling Unit, ETH Zurich, Zurich (CH)	2024
Oral Presentation	“Promises and Challenges of Computational Psychiatry” Invited talk at the Nicolas Langer Lab, University of Zurich, Zurich (CH)	2024
Oral Presentation	“Innovating Approaches in Social-Cognitive Neuroscience & Computational Psychiatry – Empirical Evidence for ADHD & Depression” Invited talk at the Rebecca Saxe Lab, Massachusetts Institute of Technology, Boston (USA)	2024
Oral Presentation	“Towards a better ecosystem for managing, caring, and researching mental health conditions” at the ThinkSwiss Event at the Swiss Embassy, Washington DC (USA)	2023
Oral Presentation	“Using game theory and experimental economics to study social-cognitive characteristics in ADHD”, at the Social-Cognitive Seminar Series at Brown University, Providence RI (USA)	2023
Oral Presentation	“Addressing ADHD and comorbidities with computational psychiatry: using new integrative testing; refining clinical characteristics; and tailoring treatments”, invited talk at Brown University, USA	2022
Oral Presentation	“ADHD/ASD – A different way how to perceive the world”, at the Cincinnati Children’s Hospital Medical Center, USA	2019

TEACHING

Lecturer at the Carney BRAINSTORM Computational Modeling Workshop, Brown University 2024
Prepared and delivered an in-depth introductory into sequential sampling modeling, focusing on its practical applications in cognitive neuroscience and computational psychiatry. Provided comprehensive instruction on designing neurocognitive experiments, applying, and interpreting model parameters, and model fitting and comparison. Engaged participants (undergraduates, graduates, and post-graduate students) through hands-on teaching and practical applications.

**Organizer of Modeling Workshops in Computational Neuropsychology at:
Rutgers University, Columbia University** 2024
Developed and conducted comprehensive modeling workshops (2 days) focused on sequential sampling modeling (e.g., diffusion decision modeling) for faculty members, postgraduate, and graduate students. Designed and implemented interactive, hands-on practical sessions using the modeling toolbox HSSM. Prepared extensive educational materials, including lecture slides and tutorial guides, contributing to improved modeling competencies among attendees. Collaborated with faculty members to tailor tutorial content to current research and educational needs within the departments.

Sheridan Teaching Seminar (Certificate I), Brown University 2023
Designed and prepared an (online) course: “Foundations of Computational Psychiatry Toolkits and Applications” Excerpt: In this course, we go beyond the typical focus on technical modeling skills. Instead, we cover different tools and delve into the holistic process of computational modeling in psychiatry.

Graduate Teaching Associate, The Ohio State University 2021
Preparation and presentation of lectures, preparing syllabi, preparing homework and quizzes, supervision of group work, grading homework, assignments, tests and quizzes. The first two courses are undergraduate and graduate level courses. The last three courses are undergraduate level courses.

PSYCH2220: Data Analytics in Psychology

PSYCH5613H: Biological Psychiatry

PSYCH5614: Cognitive Neuroscience

PSYCH3331: Abnormal Psychology

PSYCH4475: Psychology of The Self

Apprenticeship Trainer, UBS AG 2008 – 2011
Preparation and presentation of lectures in economics, banking, and finances. Supervision of apprentices (including developing, conducting, and grading essays, assignments and quizzes).

LEADERSHIP & SUPERVISION

Advising MD/PhD student (Pranavan Chanthrakumar) in cognitive computational modeling at Brown University 01/2024 – current

Advising summer intern (Seik Oh) from computer science in process-oriented modeling 06/2024 – current

Leading a team (4 software engineers, 2 graphic illustrators, 2 research assistants) in self-funded independent study to develop innovative platform for wholistic neurocognitive testing at Brown University 01/2024 – current

Advising graduate student (Ziwei Cheng) in cognitive computational modeling at Berkeley University 01/2024 – current

Advising engineering student (Swarag Thaikkandi) in cognitive computational modeling at Brown University (as part of a Conte Center) 09/2022 – current

Advising data science student (Shiqi Wang) in statistical analyses & machine learning (1 semester) at Brown University 09/2023 – 12/2023

Advising undergraduate capstone project (1 semester) in decision sciences (Elizabeth Duchan) at Brown University 09/2023 – 12/2023

Advising medical student (Ahmed Abdelbaki) in statistics at The Ohio State University	08/2023 – 12/2023
Advising clinical/medical graduate students (Pranavan Chanthrakumar, Quinn Painter) and undergraduate students (Qile Jiang) in computational modeling	09/2022 – 04/2023
Advising undergraduate research assistants (Karly Britt, Aditya Maraju, Prateek Palsule, Jacob Sellers) in the Van Zandt lab (mentoring in: conducting statistical analyses, collecting eye-tracking and EEG data, applying computational models, applying to graduate school)	08/2020 – 05/2022
Advising research assistants (Shea Connor, Alex Lingel, Madeline Thomas, Catherine Panchyshyn) in conducting laboratory experimental paradigms (research assistants from various labs)	02/2019 – 12/2019
Advising research assistants (Justin Voyzey, Sam Stelnicki, Saarthak Gaur) in conducting eye-tracking studies (research assistants from various labs)	01/2018 – 12/2018
Leading a team (4 members) as a chief of staff in a Consultancy Boutique	02/2012 – 03/20213

PROFESSIONAL SERVICE AND OUTREACH

Writer, CPN Modeling Blog Series for educating a broad audience in computational neurocognition & psychology Modeling Blogs Nadja Ging-Jehli (gingjehli.com)	05/2024 – present
Reviewer for submissions to Cognitive Computational Neuroscience (CCN) conference	2024
ARC program representer at the Annual Postdoctoral Symposium, at Brown University	2024
Consultant in computational modeling across universities	2023 – present
Advisor for students' capstone projects in decision sciences	2023
Modeling advisor for the open-source HDDM toolbox (helping resolving modeling issues)	2022
Statistical advisor for medical and clinical students conducting statistical analyses in SPSS & R	2022
Undergraduate Mentor for PhD applications (writing workshop, review materials, interviews)	2020 – 2022
Guest lecture in an undergraduate course: how to find research topics and how to apply for PhD programs	2021
Internal workshop for undergraduates: Using R to simulate data with the diffusion decision model	2019
Guest lecture as a volunteer at the high school in Pfaffikon, ZH (Switzerland). Topic: "What is Macroeconomics and how to handle money responsibly?"	2011

PROFESSIONAL MEMBERSHIPS

Psychonomic Society; Society for Mathematical Psychology; Society for Neuroscience; Member of SwissImpact Transcontinental Computational Psychiatry Workgroup (TCPW); Women of Mathematical Psychology

ADDITIONAL TRAINING

Neuroscience

Computational Cognitive Neuroscience (1 semester; course by Michael J. Frank), Brown University	2023
Foundation of Neuroscience I and II , School of Medicine (1 year), Ohio State University	2018 - 2019
Neuroscience Lab including Brain Dissections (1 year), Ohio State University	2017 - 2018
Behavioral Endocrinology , School of Medicine (1 semester), Ohio State University	2017
Introduction into fMRI (1 semester), Ohio State University	2017
<u>Computational Modeling</u>	
Reinforcement Learning Workshop (1 day), Mathematical Psychology Conference	2023
Dynamic Causal Modeling Workshop (2 days), Brown University	2022
Computational Modeling Workshop (2 weeks), Carney Center for Computational Brain Science	2022

Modeling EEG Data Workshop (2 weeks), Brainstorm EEG Challenge, Brown University	2022
Computational Psychiatry Workshop (1 week), Zurich (Switzerland)	2019
<u>IT & MedTech</u>	
Med Tech Leadership Program (6 months), New England Medical Innovation Center	2022/2023
European Computer Driving License Certificate (1 year), Chur (Switzerland)	2007
Swiss IT Certificate (1 year), Chur (Switzerland)	2007
<u>Leadership & Teaching</u>	
Sheridan Teaching Certificate (1 semester), Brown University	2023
Leadership Workshop for apprenticeship trainers (1 week), UBS AG	2008

PROGRAMMING & TECHNICAL PROFICIENCY

Programming & Softwares

Proficient in working with operating systems: **Linux**, **IOS** (mac), and **Microsoft**

Proficient in **R**; Advanced in **STATA**, **SPSS**, and **WinBUGS**, Knowledge in **SAS** and **JASP**

Proficient in computational modeling softwares: **Stan**, **BRMS**, **EMC**, **DMC**, **HDDM**, **HSSM**, **fast-DM**

Proficient in **MATLAB** (including toolboxes: **Psychtoolbox**, **Signal Processing**, **ERPLab**)

Proficient in **z-Tree** (**programming language: C++**) program for real-time interactions in lab experiments

Advanced in **Python**, **LATEX**, **Fortran**

Advanced in writing **bash scripts**

Knowledge in **PyMC**, **PyTorch**, **emergent** (biologically inspired neural networks)

Hardware & Technology

Proficient in conducting **eye tracking** studies using **eyelink** and **gazeport**

Advanced in conducting **full-cap** electroencephalographic (**EEG**) studies

Knowledge in collecting and analyzing **fMRI** data

COMPUTATIONAL MODELING PROFICIENCY

Within both Bayesian & Frequentist frameworks

Proficient in **sequential sampling modeling** (e.g., diffusion decision modeling)

Proficient in **descriptive distribution modeling** (e.g., ex-Gaussian distribution modeling)

Advanced in **reinforcement learning modeling** (e.g., RLWM modeling)

Knowledge in **biologically inspired neural network modeling** (e.g., PBWM modeling)

MACHINE LEARNING PROFICIENCY

Proficient in **support vector machines**

Proficient in **cluster-based analyses**

Proficient in **logistic regression**

Proficient in **principal and independent component analyses**

Proficient in **factor analyses**

Advanced in **deep neural networks**

STATISTICAL PROFICIENCY

Proficient in **multi-level linear mixed modeling** and **Bayesian hierarchical modeling**

Proficient in **moderator** analyses and **mediator** analyses (particularly for randomized clinical trials)

Proficient in **ANOVAs**, simple and multivariate **regressions**

Proficient in **Time Series Analyses**

Knowledge in **structural equation modeling** and **dynamic causal modeling**

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