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CURRICULUM VITAE

Nadja R. Ging-Jehli

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Professional Website | LinkedIn | GitHub
(Permanent US resident)

ACADEMIC APPOINTMENTS

2025 - present **Independent Investigator (Swiss National Science Foundation)**
Core Director, *Adaptive Intelligence & Mental Health Mechanisms*
Gearshift Fellowship Program
Centre for Digital Health Interventions,
University of St. Gallen, ETH Zurich, Switzerland
Visiting Scientist, Department of Cognitive & Psychological Science,
Brown University, Providence (RI), USA

- Leads an interdisciplinary research program, founded on the Gearshift Fellowship platform, that develops computational frameworks linking neural, psychological, and algorithmic mechanisms of adaptability to applications in digital psychiatry and adaptive artificial systems.

2023 - 2025 **Independent Project Leader (ARC scholar)**
Gearshift Fellowship Program
Carney Institute for Brain Sciences, Brown University, Providence (RI), USA

- Directed independent research project, including budget oversight and strategic planning.
- Hired and managed a multidisciplinary team (5 members), coordinating all aspects of execution and collaboration.
- Secured independent funding and let the scientific development and dissemination of the project.

2022 - 2025 **Postdoctoral Researcher**
Department of Cognitive & Psychological Sciences, Brown University, Providence (RI), USA
Laboratory of Neural Computation and Cognition (PI: Michael J. Frank)

2013 - 2017 **Research Assistant**
Department of Economics, University of Zurich, Zurich, Switzerland
Chair of Behavioral and Experimental Economics (PI: Roberto A. Weber)

2013 - 2017 **Research Assistant**
Department D-GESS, Behavioral Studies, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland
Decision Science Laboratory (PI: Stefan Wehrli)

EDUCATION

2019 – 2022 **The Ohio State University,** Columbus, OH
Ph.D., Psychology and Neuroscience
Specialization: Model-based Cognitive Neuroscience

Dissertation: *Characterizing adult attention-deficit hyperactivity disorder (ADHD) with a multidisciplinary computational approach including novel neurocognitive testing and physiological measures.*
Advisors: Patricia Van Zandt (main advisor; focus on Bayesian approaches), Brandon Turner, Jay Myung, L. Eugene Arnold (clinical advisor), Mary Fristad (second clinical mentor)

2018 – 2021 **Wexner Medical Center at The Ohio State University,** Columbus, OH
Nisonger Center – Department of Psychiatry and Behavioral Health
Clinical Internship, clinical advisor: L. Eugene Arnold

2017 – 2019 **The Ohio State University,** Columbus, OH
Master of Arts in Psychology
Specialization: Cognitive Psychology and Neuroscience
Master's thesis: *On the implementation of computational psychiatry within the framework of cognitive psychology and neuroscience.*
Advisors: Roger Ratcliff (main advisor; focus on frequentist approaches), Patricia Van Zandt, L. Eugene Arnold (clinical advisor)

2016 – 2017 **University of Zurich,** Zurich, Switzerland
Post-Graduate Coursework in Psychology
Biological Psychology I & II, Neuroeconomics, Social Psychology I & II (Neuroscience, Immunology, Genetics, Epigenetics, Endocrinology)

2015 – 2017 **University of Zurich,** Zurich, Switzerland
Master of Arts in Economics
Minor: Behavioral and Experimental Economics
Graduation with honors: magna cum laude
Master's thesis: *Situational determinants of social preferences*.
Advisor: Ernst Fehr

2014 – 2015 **Swiss Federal Institute of Technology (ETH),** Zurich, Switzerland
Post-Baccalaureate Coursework in Mathematics
Real Calculus I & II, Linear Algebra I & II

2012 – 2014 **University of Zurich,** Zurich, Switzerland
Bachelor of Arts in Economics
Bachelor's thesis: *Generosity across economic contexts.*
Advisor: Roberto A. Weber

2008 – 2012 **Zurich University of Applied Sciences (ZHAW),** Winterthur, Switzerland
Bachelor of Science in Business Administration
Bachelor Thesis: *How corporate governance of a consultancy can benefit from findings in behavioral economics – How implicit incentive signals influence intrinsic motivation*
Advisor: Stefan Schuppisser

2007 – 2008 **Commercial Learning School (KLZ**), Zurich, Switzerland
Industrial Psychology with Certificate from KLZ

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

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

RESEARCH INTEREST

Core Areas: Cognitive-Affective Neuroscience, Computational Psychiatry, Generative and Agentic Artificial Intelligence (AI), Behavioral Economics.
Neuropsychological Focus: Meta-learning and adaptive learning; mechanisms of mental flexibility and behavioral adaptability across cognitive and social contexts, in humans and AI systems.
Computational & Modeling Focus:

1. Integration of sequential sampling models and deep and recurrent neural architectures as artificial model systems to explore how learning, control, and meaning emerge in the brain and behavior.
2. Development of generative, agent-based models of adaptability that integrate hierarchical reinforcement learning, meta-learning, and Bayesian inference.
3. Application of large-scale behavioral and physiological datasets using hierarchical Bayesian inference, deep generative modeling, and affective language and sentiment analyses to characterize individual adaptability profiles.

Clinical Focus: ADHD, anxiety, and mood disorders, emphasizing individual differences in adaptability and controllability estimation.
Translational Focus: Design of autonomous, generative digital neurocognitive platforms (e.g., Gearshift Fellowship) to assess and enhance real-world resilience and agency.

GRANTS

Submitted (under review)

2027 – 2030 **Jacobs Foundation (CIFAR) –** Finalist (2025 cycle), resubmitted
Neurocomputational Mechanisms of Adaptability and Meta-Learning in Youths
Role: Principal Investigator
Total Budget: 150,000 CHF (directs)

2026 – 2031 **NIH Director's New Innovator Award (DP2)**
Adaptive, Mechanism-Based AI Agents Targeting Transdiagnostic Cognitive-Affective Rigidity
Role: Principal Investigator
Total Budget: 2,500,000 USD (directs)

2026 – 2030 **Swiss National Science Foundation**
Adaptive Intelligence for Modeling and Restoring Agency in Anxiety
Role: Principal Investigator
Total Budget: 250,000 CHF (directs)

Awarded

2025 – 2026 **Swiss National Science Foundation**
Validity and reliability of a neurocognitive supertask platform for predicting real-world transdiagnostic rigidity
Role: Principal Investigator
Amount Awarded: 140,000 CHF (directs)

2023 – 2025 **Carney Institute's Advancing Research Careers (ARC) program (NINDS/NIH)**

Developing a computationally engineered game environment for wholistic neurocognitive and social assessments
Role: Principal Investigator
Amount Awarded: 25,000 USD (directs)

2023 – 2025 **Swiss National Science Foundation**
Using Computational Psychiatry to explore transdiagnostic features of neurodevelopmental- and mood-related disorders
Role: Principal Investigator
Amount Awarded: 10,000 CHF (directs)

2019 – 2020 **Swiss National Science Foundation**
Using Computational Psychiatry for Phenotyping ADHD
Role: Principal Investigator
Amount Awarded: 3,000 CHF (directs)

AWARDS AND FELLOWSHIPS

2025 **Travel-Fellowship Award,** American College of Neuropsychopharmacology ACNP (2,000 USD)

2025 **Travel Award,** Computational Psychiatry Conference (1,000 EUR)

2025 **Travel-Fellowship Award,** Society of Biological Psychiatry SOBP (2,000 USD)

2024 **Swiss National Science Foundation Postdoc Award**, Switzerland (5,300 CHF)

2023 **Symposium Award,** The American College of Neuropsychopharmacology ACNP conference (1,000 USD)

2023 **ThinkSwiss & Fullbright Alumni Travel Award**, Embassy of Switzerland in the USA (500 USD)

2023 **Swiss National Science Foundation Postdoc Award**, Switzerland (5,300 CHF)

2023 **Travel & Networking Award**, Women of Mathematical Psychology (500 EUR)

2022 – 2023 **NIH Computational Psychiatry Postdoctoral Training (T32**), Brown University (113,680 USD)

2021 – 2022 **Presidential Fellowship**, The Ohio State University (40,000 USD)

2019 – 2020 **Swiss National Science Foundation Graduate Fellowship**, Switzerland (93,725 CHF)

2017 – 2018 **University Fellowship**, The Ohio State University (20,000 USD)

2017 **Graduation with honor: Magna Cum Laude**, University of Zurich

2014 **Graduation with honor: Magna Cum Laude,** University of Zurich

2012 **Dean's List,** University of Zurich

2012 **Rieter-Prize**, Best Bachelor Thesis in 2012, University of Zurich

CURRENT RESEARCH PROJECTS

- **Model development of agency and meaning:** formalizing how controllability, uncertainty reduction, and intrinsic motivation interact to generate a sense of agency and purpose within adaptive agents.
- **Computationally engineered game platform (Gearshift Fellowship):** developing and piloting novel digital environment to study and train mental flexibility and behavioral adaptability.
- **Neurocognitive mechanisms of ADHD:** identifying neuronal and attentional signatures of cognitive flexibility deficits.
- **Joint modeling of multimodal data:** testing integrated computational approaches for behavioral and physiological datasets from ecological momentary assessments and experimental paradigms.

PEER-REVIEWED PUBLICATIONS

Google Scholar Profile

*indicates mentees
$^{\phi}$ indicates co-first authorship

1. Ging-Jehli, N.R., Childers, R.K., Lu, J., Gemma, R., Zhu, R. (2026). Gearshift Fellowship: A Next-Generation Neurocomputational Game Platform to Model and Train Human-AI Adaptability. *In: Thomas, A., Meyer, M., Zank, M. (eds) Serious Games. JCSG 2025. Lecture Notes in Computer Science, vol 16243. Springer, Cham*. Preprint / DOI
2. Ging-Jehli, N.R., Rac-Lubashevsky, R., Bera, K., Roberts, A., Loder, A., Boudewyn, M.A., Carter, C.S., Erickson, M., Gold, J., Luck, S.J., Ragland, J.D., Yonelinas, A.P, MacDonald III, A.W., Barch, D.M., Frank, M.J. (in press). Model-based EEG phenotyping uncovers distinct neurocomputational mechanisms underlying learning impairments across psychopathologies. *Biological Psychiatry: Global Open Science*. Preprint
3. Ging-Jehli, N.R., Pine, D.S. (2025). From Symptom-Based Heterogeneity to Mechanism-Based Profiling in Youth ADHD: The Promise of Computational Psychiatry. *Neuropsychopharmacology.* DOI
4. Cole, C.R.$^{\phi}$, Ging-Jehli, N.R.$^{\phi}$, Suarez, J.V., Greenlee, J.D., Wessel, J.R., Espinoza, A.I., Zhang, J., Cavanagh, J.F., Narayanan N.S. (2025). Theta-frequency subthalamic nucleus stimulation increases decision threshold. *Brain Stimulation*. DOI
5. Ging-Jehli, N.R., Cavanagh, J.F., Ahn, M., Segar, D.J., Asaad, W.F., Frank, M.J. (2025). Basal ganglia components have distinct computational roles in decision-making dynamics under conflict and uncertainty. *PLOS Biology*. DOI
6. 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*. PDF
7. 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.* DOI

8. 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*. DOI
9. 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*. PDF
10. 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.* PDF
11. 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). For Which Children with ADHD is TBR Neurofeedback Effective? Comorbidity as a Moderator. *Applied Psychophysiology and Biofeedback*. DOI
12. 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*. DOI
13. Ging-Jehli, N.R., Ratcliff, R., Arnold, L.E. (2021). Improving Neurocognitive Testing using Computational Psychiatry – A Systematic Review for ADHD. *Psychological Bulletin*. PDF
14. 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*. PDF
15. Ging-Jehli, N.R., Deepa, M., Hollway J., Hurt, E., Moone, S., Arnold, L.E. (2020). A Placebo-Controlled Pilot Exploration of Cholesterol Supplementation for Autistic Symptoms in Children with Low Cholesterol. *Journal of Developmental and Physical Disabilities*. Link
16. Ging-Jehli, N.R., Schneider, F.H., Weber, R.A. (2020). On self-serving strategic beliefs. *Journal of Games and Economic Behavior*. DOI

Working Paper

17. 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. PDF

MANUSCRIPTS UNDER REVIEW

*indicates mentees

18. 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.
19. Ziwei, C.*, Ging-Jehli, N.R., Tarlow, M., Kim, J., Chase, H.W., Bonar, L., Stiffler, R., Grattery, A., Graur, S., Frank, M.J., Phillips, M.L., Shenhav, A. (submitted). A Novel Approach-Avoidance Task to Study Decision Making Under Outcome Uncertainty.

SELECTED MANUSCRIPTS IN PREPARATION

20. Ging-Jehli, N.R., Weigard, A. (under revision). Lumping versus splitting in mechanistic computational psychiatry models: integrating the search for specialized and task-general functions.

21. Ging-Jehli, N.R., Arnold, L.E., Van Zandt, T. (in preparation). Characteristics of cognitive maladaptation in ADHD: decomposing error typology, impulsivity, and slower neurocomputational processing during task switching.
22. Ging-Jehli, N.R., Frank, M.J. (in preparation). Uncovering neurocomputational mechanisms of adaptive decision-making.

PUBLISHED CONFERENCE ABSTRACTS

*indicates mentees

1. Ging-Jehli, N., R. (2025). Rac-Lubashevsky, R., Bera, K., Zimmerman, A., Roberts, A., Loder, A., ... & Frank, M. J. (2025). Dissecting Neurocomputational Mechanisms of Impaired Instrumental Learning Across Psychopathologies Using Integrative Model-Based EEG Phenotyping. *Biological Psychiatry*, *97*(9), S7. DOI
2. 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, 48,* 30-30.
3. 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. DOI
4. 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. DOI
5. 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. DOI
6. 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. DOI
7. 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. DOI
8. 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. DOI

INVITED TALKS

2025	Invited Talk | *Adaptive Intelligence Under Uncertainty and Control Loss – Mechanistic Accounts of Agency and Psychopathology*, University of Michigan, Department of Psychiatry, Ann Arbor MI (USA)
2025	Invited Talk | *Adaptive Minds: The Neurocomputational Mechanisms of Agency and Control*, Development & Cognitive Colloquium, University of Geneva, Geneva GE (Switzerland)
2025	Invited Talk | *Gearshift Fellowship: A Mechanistic, Reconfigurable Platform for Studying Adaptive Decision-Making and Clinical Phenotypes*, Warren Alpert Medical School, Brown University, Providence (RI)

2025 Invited Talk | *Gearshift Fellowship: From neurocomputational mechanisms of adaptability to an ecosystem for translational modeling,* University of Toronto, (Host: Andreea Diaconescu), Toronto (CA)

2025 **Keynote Lecture** | *Adaptability in the Digital Age: From Neuroscience to Next-Generation Agentic AI and Health Ecosystems*, Digital Health Forum, University of St. Gallen, School of Medicine, St. Gallen SG (Switzerland)

2025 Invited Talk | *Building Adaptive Minds with Gearshift Fellowship: From Mechanisms to Ecosystems,* Laureate Institute for Brain Research (LIBR), (Host: Martin Paulus), Tulsa OK (USA)

2025 Invited Talk | *Adaptive learning across contexts: Gearshift Fellowship: A new computationally engineered serious game platform with implications for ADHD,* University of Geneva, Neurocenter (Host: Daphné Bavelier), Geneva GE (Switzerland)

2025 Invited Talk | *Neurocomputational Mechanisms of Adaptive Decision-Making: From Basal Ganglia Dynamics to Hierarchical Reinforcement Learning and Contextual Meta-Learning,* Princeton University, Princeton Neuroscience Institute (Hosts: Nathaniel Daw & Tom Griffiths), Princeton NJ (USA)

2024 Invited Talk | *Beyond mechanistic models: leveraging physiological and behavioral measures to study psychopathology across contexts*, Rutgers-Princeton Center for Computational Cognitive Neuropsychiatry, Piscataway NJ (USA)

2024 Invited Talk | *Computational mechanisms of behavioral adaptability and their transdiagnostic implications*, Yale University, Department of Psychology, New Haven CT (USA)

2024 Invited Talk | *Promoting resilience with neurocomputational digital tools*, The Ohio State University, Department of Psychiatry & Behavioral Health, Columbus OH (USA)

2024 Invited Talk | *Empowering mental health research & care with integrative neurocomputational, psychiatry tools,* National Institute of Mental Health (Host: Daniel Pine), Washington DC (USA)

2024 Invited Talk | *Integrative Computational Approaches for ADHD, mood disorders, and comorbidities – with implications for OCD,* Harvard McLean, Functional Neuroimaging & Bioinformatics Lab, Boston MA (USA)

2024 Invited Talk | *Integrative Approaches for Cognitive Neuroscience & Computational Psychiatry*, Translational Neuromodeling Unit, ETH Zurich, Zurich ZH (Switzerland)

2024 Invited Talk | *Promises and Challenges of Computational Psychiatry*, University of Zurich (Host: Nicolas Langer), Zurich ZH (Switzerland)

2024 Invited Talk | *Innovating Approaches in Social-Cognitive Neuroscience & Computational Psychiatry – Empirical Evidence for ADHD & Depression*, Massachusetts Institute of Technology (Host: Rebecca Saxe), Boston MA (USA)

2023 Invited Panelist | *Towards a better ecosystem for managing, caring, and researching mental health conditions,* ThinkSwiss Event at the Swiss Embassy, Washington DC (USA)

2023 Invited Talk | *Using game theory and experimental economics to study social-cognitive characteristics in ADHD*, Social-Cognitive Seminar Series at Brown University, Providence RI (USA)

2022 Invited Talk | *Addressing ADHD and comorbidities with computational psychiatry: using new integrative testing; refining clinical characteristics; and tailoring treatments*, Brown University, Providence RI USA

2019 Invited Talk | *ADHD/ASD – A different way how to perceive the world*, Cincinnati Children's Hospital Medical Center, Cincinnati, OH USA

CONFERENCE SYMPOSIA & PANELS ORGANIZED

2026 Ging-Jehli, N.R. (Organizer), Chair: Michael T. Treadway. Panel Members: Andreea Diaconescu, Ryan Smith, Carly Lasagna. *Using Computational Models to Dissect Symptom Heterogeneity across Conditions, Constructs, and Contexts*. American College of Neuropsychopharmacology (ACNP) Annual Meeting, Nassau, Bahamas, January 2026 (accepted).

CONFERENCE PRESENTATIONS

2026 Oral Presentation | *Escaping or Engaging: Dissecting Avoidance within a Unified Computational Game Platform for Precision Phenotyping*, American College of Neuropsychopharmacology (ACNP) Annual Conference, Nassau (Bahamas)

2025 Oral Presentation | *Gearshift Fellowship: A Next-Generation Neurocomputational Game Platform to Model and Train Human-AI Adaptability*, Joint International Conference on Serious Games, Lucerne (CH)

2025 Oral Presentation | *Neurocomputational mechanisms of adaptation in ADHD across social and cognitive contexts,* Computational Psychiatry Conference, Tuebingen (DE)

2025 Oral Presentation | *Dissecting neurocomputational mechanisms of impaired instrumental learning across psychopathologies using integrative model-based EEG phenotyping,* Society of Biological Psychiatry, Toronto (CA)

2025 Oral Presentation | *Complementary mechanisms in the basal ganglia support cautious decision-making under conflict and uncertainty*, Winter Conference on Brain Research, Lake Tahoe CA (USA)

2023 Oral Presentation | *Decoding Complexity: A Deep Dive into Mechanistic Computational Phenotyping for ADHD and Depression*, 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*, 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*, American Academy of Child and Adolescent Psychiatry (AACAP) conference, New York City (USA)
2023	Oral Presentation | *Dissecting decision dynamics in the basal ganglia*, Mathematical Psychology Conference, Amsterdam (NL)
2022	Oral Presentation | *Eye-tracking, Gaze, and Pupil Dynamics in ADHD: Biofeedback Possibilities during Novel Perceptual Conflict Task*, American Academy of Child and Adolescent Psychiatry (virtual), Toronto (CA)
2021	Oral Presentation | *Personalized medicine using computational psychiatry*, American Academy of Child and Adolescent Psychiatry (virtual)
2020	Oral Presentation | *Neurocognitive subtyping of ADHD by Computational Psychiatry*, 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*, American Academy of Child and Adolescent Psychiatry (virtual)

CONFERENCE POSTERS

2025	Poster Presentation | *A Neurocomputational Supertask Platform for Modeling and Training Co-Adaptive Behavior in Humans and AI agents*, Reinforcement Learning and Decision Making (RLDM) Conference, Dublin (IE)
2024	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*, 26th annual Mind Brain Research Day, Brown University, Rhode Island (USA)
2023	Poster Presentation | *Multidimensional computational phenotyping of anhedonia & depression,* Computational Psychiatry Conference, Dublin (IE)
2022	Poster Presentation | *Broader visual processing and distinct pupil dynamics facilitate perceptual conflict and compensate for ADHD distractibility*, Mental Effort Workshop, Providence RI (USA)
2019	Poster Presentation | *Computational Psychiatry: Studying ADHD in neurocognitive tests*, Society for Neuroscience Conference, Chicago, IL (USA)
2019	Poster Presentation | *On the implementation of computational psychiatry to study ADHD, Institute for Behavioral Medicine Research Conference*, The Ohio State University, USA
2015	Poster Presentation | *Generosity across contexts*, Social Norms and Institutions, International Conference at the Congressi Stefano Franscini (CSF) of ETH Zurich, Ascona, TI (CH)

PUBLIC OUTREACH (INTERVIEWS AND MEDIA COVERAGE)

1. **Kaleidopod Interview Guest** (2025, May 25). Student Radio Podcast, University of Osnabrück. Topic: "Next Frontiers in Computational Cognitive Neuroscience and Computational Psychiatry" - One-hour interview aimed at educating the public and student audience about current research directions [Video]. YouTube. Link
2. **Nadja Ging-Jehli** (2021, January 8). Radio Interview on Computational Psychiatry and ADHD [Video]. YouTube. Link
3. **Ging-Jehli NR**, Ratcliff R, Arnold LE (2020, December 28). Improving neurocognitive testing using computational psychiatry – A systematic review for ADHD. Psychological Bulletin. Link
4. P. Erika (2021, January 5). Computational Models Could Help Diagnose Children with ADHA, *The Science Times.* Link
5. Caldwell, Emily (2020, December 30). A pursuit of better testing to sort out the complexities of ADHD. *Ohio State News.* Link

LEADERSHIP POSITIONS

09/2025 - present	University of St. Gallen, University of Zurich, ETH Zurich, Center for digital interventions, Zurich, Switzerland, Brown University, Providence, RI, USA Independent Project Leader, SNSF fellow	Principal investigator with own funding for independent project. Managing team (1 software engineer, 1 research assistant, 2 masters' students, 1 PhD student)
01/2024 – 08/2025	Brown University, Providence, RI, USA Independent Project Leader, ARC scholar	Principal investigator with own funding for independent project. Hired & managing team (2 software engineers, 1 graphic illustrator, & 2 research assistants).
2012 – 2013	Fehr Advice & Partners AG, Zurich, Switzerland Chief of Staff	Leading 4 team members as strategic business and project manager (serving three executive directors & CEO).
2008 – 2011	UBS AG, Zurich, Switzerland Apprenticeship Trainer	Certified educator for 6 apprentices, educating them in Banking & Finance (off-the-job) and leading their daily business (on-the-job).

TEACHING & MENTORING

Teaching Experience

Entire Courses

2023	**Brown University**, Providence, RI Instructional Designer, Sheridan Teaching Seminar (Certificate I)
2021	**The Ohio State University,** Columbus, OH

Graduate Teaching Associate
Courses:
PSYCH2220: Data Analytics in Psychology
PSYCH5613H: Biological Psychiatry
PSYCH5614: Cognitive Neuroscience
PSYCH3331: Abnormal Psychology
PSYCH4475: Psychology of The Self

Workshops/Guest Lectures

2025 **Universität Osnabrück**, Osnabrück, Germany
Lecturer, Leveraging Sequential Sampling Models for Cognitive Neuroscience & Computational Psychiatry

2025 **Winter Conference on Brain Research**, Lake Tahoe, CA
Lecturer, Introduction to Modeling Behavioral and Neural Data with HSSM

2024 **Brown University**, Providence, RI
Lecturer, Carney BRAINSTORM Computational Modeling Workshop

2024 **Rutgers University** (New Brunswick, NJ)
Organizer, Modeling Workshops in Computational Modeling for Psychiatry

2024 **Columbia University** (New York, NY)
Organizer, Modeling Workshops in Computational Modeling for Neuroscience

Mentoring (students' projects)

10/2025 – present Hanrui Mei (PhD Graduate student, The Ohio State University)
Quantitative psychology

01/2024 – present Pranavan Chanthrakumar (MD/PhD Graduate student, Brown University)
Cognitive computational modeling / Computational psychiatry

01/2024 – 08/2025 Ziwei Cheng (PhD Graduate student, Berkeley University)
Cognitive computational modeling / Computational psychiatry

09/2023 – 12/2023 Elizabeth Duchan (Undergraduate student, Brown University)
Capstone project in decision sciences

08/2023 – 12/2023 Ahmed Abdelbaki (Medical student, The Ohio State University)
Statistics

09/2022 – 04/2023 Quinn Painter (Clinical PhD Graduate student, Creighton University)
Statistics (linear mixed modeling)

Research Assistants

Dates	Name and University / Institution	Research Study	Subsequent Position
06/2025 – present	Madeline Healey (Research assistant), Gearshift Fellowship research program	Clinical Psychology	

09/2022 – 09/2025	Swarag Thaikkandi (Research assistant as part of a Conte Center Collaboration)	Cognitive computational modeling	LNCA, University of Strasbourg
09/2024 – 08/2025	Nada Saaidia (Research assistant in Cognitive Neuroscience, Brown University)	Computational Cognitive Neuroscience	Undergraduate student, Cognitive Neuroscience, Brown University
08/2024 – 12/2024	Nichols Macfadyen (Research assistant in Computer Science, Brown University)	Computational Psychiatry	Undergraduate student, Computer Science, Brown University
06/2024 – 12/2024	Seik Oh (Summer Intern & Research assistant in Computer Science, Brown University)	Computer science & Cognitive Psychology	PhD student, Computer Science, Virginia Tech
09/2023 – 12/2023	Shiqi Wang (Data Science student, Brown University)	Statistical analyses & machine learning	Undergraduate student, Data Science, Brown University
09/2022 – 04/2023	Pranavan Chanthrakumar (Semester Intern as medical graduate student, Brown University)	Computational Psychiatry	MD/PhD student, Brown University
09/2022 – 04/2023	Qile Jiang (Undergraduate student in Mathematics, Brown University)	Cognitive computational modeling	Undergraduate student, Mathematics, Brown University
08/2020 – 05/2022	Prateek Palsule (Undergraduate student in Psychology, The Ohio State University)	Van Zandt lab (mentoring in: conducting statistical analyses, collecting eye-tracking and EEG data, applying computational models, applying to graduate school)	Undergraduate student, Psychology, The Ohio State University
08/2020 – 05/2022	Karly Britt (Undergraduate student in Public Health, The Ohio State University)	Van Zandt lab (mentoring in: conducting statistical analyses, collecting eye-tracking and EEG data, applying computational models, applying to graduate school)	Graduate student, Public Health, Boston University
08/2020 – 05/2022	Aditya Maroju (Undergraduate student in Economics, The Ohio State University)	Van Zandt lab (mentoring in: conducting statistical analyses, collecting eye-tracking and EEG data, applying computational	Graduate student, Economics, Georgetown University

		models, applying to graduate school)	
08/2020 – 05/2022	Jacob Sellers (Undergraduate student in Neuroscience, The Ohio State University)	Van Zandt lab (mentoring in: conducting statistical analyses, collecting eye-tracking and EEG data, applying computational models, applying to graduate school)	Graduate student, Cognitive neuroscience, Michigan University at Ann Arbor
02/2019 – 12/2019	Shea Connor (Graduate student in Clinical Psychology, University of North Carolina at Asheville)	Arnold lab (Conducting laboratory experimental paradigms)	Clinical Research Assistant, University of North Carolina at Asheville
02/2019 – 12/2019	Alex Lingel (Undergraduate student in Psychology, The Ohio State University)	Ratcliff lab (Conducting laboratory experimental paradigms)	Clinical Research Assistant, Centricity Research
02/2019 – 12/2019	Madeline Thomas (Undergraduate student in Psychology, The Ohio State University)	Ratcliff lab (Conducting laboratory experimental paradigms)	Associate Researcher, InfinixBio
02/2019 – 12/2019	Catherine Panchyshyn (Undergraduate student in Neuroscience, The Ohio State University)	Ratcliff lab (Conducting laboratory experimental paradigms)	Chemistry Teacher, Bio Med Science Academy
01/2018 – 12/2018	Justin Voyzey (Undergraduate student in Economics, The Ohio State University)	Krajbich lab (Eye-Tracking Study)	Undergraduate student, The Ohio State University
01/2018 – 12/2018	Sam Stelnicki (Undergraduate student in Economics, The Ohio State University)	Krajbich lab (Eye-Tracking Study)	Graduate student, Economics, The Ohio State University
01/2018 – 12/2018	Saarthak Gaur (Undergraduate student in Economics, The Ohio State University)	Krajbich lab (Eye-Tracking Study)	Financial Analyst Intern, HealthPlan Data Solutions

PROFESSIONAL/INDUSTRY EXPERIENCE

2012 – 2013 **Fehr Advice & Partners AG**
Chief of Staff & Consultant (100% employment), Zurich, Switzerland

2007 - 2012 **UBS AG**
Private Banking Assistant, Wealth Management (Executive & Entrepreneur Desk), (100% employment), Zurich, Switzerland
Private Client Banker (100% employment), Rüschlikon, Switzerland
Relationship Banker (100% employment), Zollikerberg, Switzerland

ENTREPRENEURIAL & TRANSLATIONAL ACTIVITIES

2025 – present	**Violucid LLC** (Delaware, USA) Founder & Managing Member Legal/IP vehicle to steward and license the Gearshift Fellowship ecosystem and related neurocomputational tools, while maintaining open scientific collaboration and clinical partnerships.
2023 – present	**BGBehavior LLC** (Ohio, USA) Co-Founder (Advisory Board Member)

INTERNSHIPS & APPRENTICESHIPS

2018 – 2021	**Clinical Internship,** Nisonger Center, Department of Psychiatry and Behavioral Health, clinical advisors: L. Eugene Arnold, Jill Hollway
2019	**Clinical Exchange,** Cincinnati Children's Hospital Medical Center, host: Jeffery N. Epstein
2013	Statistical Bureau, City of Zurich, Zurich, Switzerland Data Scientist (60% employment)
2004 – 2007	Graubündner Kantonalbank, Chur, Switzerland Apprenticeship with Vocational Maturity Diploma (100% employment)

EDITORIAL & REVIEWING EXPERIENCE

Ad-hoc Reviewing

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; The Journal of Neuroscience

Conference Reviewer

Cognitive Computational Neuroscience (CCN) conference; Multi-Disciplinary Conference on Reinforcement Learning and Decision Making (RLDM)

Grant Reviewer

Wellcome Funding

SERVICE RECORD

2025	Panelist, "How to succeed as a postdoc" symposium, CoPsy Department Retreat in Southbridge MA (USA), *Brown University*

2024 – present	Writer, CPN Modeling Blog Series for educating a broad audience in computational neurocognition & psychology *Modeling Blogs | Nadja Ging-Jehli (gingjehli.com)*
2024	ARC program representer. Annual Postdoctoral Symposium, *Brown University*
2023 – 2025	Consultant in computational modeling, *The Ohio State University, Brown University, University of Iowa, University of Minnesota*
2023	Advisor, Students' capstone projects in decision sciences, *Brown University*
2022	Modeling advisor, *Open-source HDDM toolbox*
2022	Statistical advisor, Medical and clinical students conducting statistical analyses in SPSS & R, *The Ohio State University, Creighton University*
2020 – 2022	Undergraduate Mentor, PhD applications (writing workshop, review materials, interviews), *Brown University, The Ohio State Univers*ity
2021	Guest lecture, Undergraduate course: How to find research topics and how to apply for PhD programs, *The Ohio State University*
2019	Presenter, Internal workshop for undergraduates: Using R to simulate data with the diffusion decision model, *The Ohio State University*
2011	Volunteer guest lecturer, Topic: What is Macroeconomics and how to handle money responsibly? *High school in Pfaeffikon, ZH (Switzerland)*

PROFESSIONAL AFFILIATIONS

American College of Neuropsychopharmacology (ACNP, award fellowship member since 2025)
Psychonomic Society
Society for Mathematical Psychology
Society for Neuroscience
Society of Biological Psychiatry (SOBP award fellowship member since 2025)
Member of SwissImpact
Transcontinental Computational Psychiatry Workgroup (TCPW)
Women of Mathematical Psychology

PROFESSIONAL DEVELOPMENT

Neuroscience

2023	Computational Cognitive Neuroscience (1 semester; course by Michael J. Frank), Brown University, Providence RI (USA)
2018 - 2019	Foundation of Neuroscience I and II, School of Medicine (1 year), The Ohio State University, Columbus OH (USA)
2017 - 2018	Neuroscience Lab including Brain Dissections (1 year), The Ohio State University, Columbus OH (USA)
2017	Behavioral Endocrinology, School of Medicine (1 semester), The Ohio State University, Columbus OH (USA)
2017	Introduction into FMRI (1 semester), Ohio State University, Columbus OH (USA)

Computational Modeling

2025	Deep Learning, Neuromatch Academy (3 weeks intensive course), international
2023	Reinforcement Learning Workshop (1 day), Mathematical Psychology Conference, Amsterdam (NL)
2022	Dynamic Causal Modeling Workshop (2 days), Brown University, Providence RI (USA)
2022	Computational Modeling Workshop (2 weeks), Carney Center for Computational Brain Science, Providence RI (USA)
2022	Modeling EEG Data Workshop (2 weeks), Brainstorm EEG Challenge, Brown University, Providence RI (USA)
2019	Computational Psychiatry Workshop (1 week), Zurich (Switzerland)

Digital Health, MedTech, & IT

2025	UMZH Precision Digital Therapeutics Summer School, University of Zurich, Zurich (Switzerland)
2022/2023	Med Tech Leadership Program (6 months), New England Medical Innovation Center, Providence RI (USA)
2007	European Computer Driving License Certificate (1 year), Chur (Switzerland)
2007	Swiss IT Certificate (1 year), Chur (Switzerland)

Leadership & Teaching

2023	Sheridan Teaching Certificate (1 semester), Brown University, Providence RI (USA)
2008	Leadership Workshop for apprenticeship trainers (1 week), UBS AG, Zurich (Switzerland)

TECHNICAL SKILLS

Languages: German (Native); English (Full Professional Proficiency – Oral and Written); French Full Professional Proficiency – Oral and Written; Italian (Basic -Oral and Written), DELI-diploma

Programming Languages: Python, C++, MATLAB (e.g., Signal Processing, ERPLab), Fortran, LaTeX

Computational modeling software: Stan, BRMS, EMC, DMC, HDDM, HSSM, fast-DM, emergent (biologically inspired neural networks)

Machine Learning & Deep Learning Frameworks: PyTorch, TensorFlow (if applicable), scikit-learn

Statistical Software: R; STATA, SPSS, WinBUGS, SAS, JASP, SciPy, NumPy, PyMC3/4

Operating Systems: Linux, IOS (mac), Microsoft

Version Control & Development Tools: Bash, Git, GitHub

Experiment Design Tools: z-Tree, Psychtoolbox, jsPsych

Hardware & Technology: Eye Tracking (Eyelink and Gazepoint); Full-cap electroencephalographic (EEG) studies; fMRI data

MODELING SKILLS

Modeling Frameworks: Bayesian & Frequentist frameworks; integrative frameworks of jointly modeling different data types (e.g., behavioral and physiological data)

Computational Cognitive Modeling: Sequential sampling models (e.g., diffusion decision model); Descriptive distribution models (e.g., ex-Gaussian distribution modeling); Reinforcement learning models (e.g., RLWM modeling); Biologically inspired neural network models (e.g., PBWM modeling)

Deep Learning & Neural Networks: Training and fine-tuning of transformer architectures (e.g., BERT, miniBERT), Convolutional and recurrent neural networks, Custom neural architectures for cognitive modeling and classification

Machine Learning: Support vector machines; Cluster-based analyses; Logistic regression; Principal and independent component analyses; Factor analyses

Statistical Analytics: Multi-level linear mixed modeling; Bayesian hierarchical modeling; Moderator and Mediator analyses (including important aspects in the context of randomized clinical trials); ANOVA; Simple and multivariate regression; Time Series Analysis; Structural equation modeling; Dynamic causal modeling