

ARTUR V. AMMALAINEN

artur.ammalainen@uni-greifswald.de

EDUCATION

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| 2022 | PhD in General Psychology, Psychology of Personality, History of Psychology <i>Thesis: The effect of processing fluency on the Aha! experience ratings in insight solutions (Advisor: Nadezhda Moroshkina)</i> | Saint Petersburg State University Saint Petersburg, Russia |
| 2016-2018 | Master's in General Psychology (with distinction, medal for academic success) <i>Thesis: The influence of semantic priming on metacognitive judgments in insight problem solving</i> | Saint Petersburg State University Saint Petersburg, Russia |
| 2012-2016 | Bachelor's in Psychology (with distinction) <i>Thesis: The dynamics of creativity in school-age children</i> | Pushkin Leningrad State University Saint Petersburg, Russia |

RESEARCH EXPERIENCE

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| 2023-current | Postdoc Researcher Social, cognitive, and metacognitive aspects of judgement making and belief change. | Department of Developmental and Educational Psychology Institute of Psychology University of Greifswald Greifswald, Germany |
| 2020-2023 | Junior research fellow Cognitive mechanisms of CRA problem solving, mental models of COVID-19, embodied and mental insight problem solving. | Laboratory for Cognitive Research Russian Academy of National Economy and Public Administration Moscow, Russia |
| 2019 - 2022 | Research Assistant The sources of Aha! experience in insight problem solving, Insight memory advantage. | Institute for Cognitive Studies Saint Petersburg State University Saint Petersburg, Russia |
| Jun 2021 - Oct 2021 | Junior research fellow Neurocorrelates of insight and Aha! experience | Laboratory of Neurovisualization, Institute for Human Brain Saint Petersburg, Russia |
| Dec 2020 | Junior research fellow Cognitive and affective aspects of insight problem solving | Laboratory of Psychology and Psychophysiology of Creative Activity, Russian Academy of Science Moscow, Russia |
| May 2020 - Nov 2020 | Research internship (Supervisor – prof. Spiridonov V.F.) Metacognitive judgments after relevant and misleading priming in CRA problems. | Laboratory for Cognitive Research Russian Academy of National Economy and Public Administration Moscow, Russia |
| 2017 - 2018 | Research internship (Supervisor – Zhukova M. A.) Cognitive development of children with a history of institutionalisation. | Laboratory for interdisciplinary studying of human development Saint Petersburg State University Saint Petersburg, Russia |

TEACHING EXPERIENCE

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| 2024 | Lecturer Courses: EEG, Discussion Group: Past, Present, and Future of Psychology | Department of Developmental and Educational Psychology Institute of Psychology University of Greifswald Greifswald, Germany |
| 2023 | Lecturer Courses: Science Communication | Department of Developmental and Educational Psychology Institute of Psychology University of Greifswald Greifswald, Germany |
| 2022 - 2023 | Lecturer Courses: Foundations of Cognitive Psychology, Modern Cognitive Psychology | Russian Academy of National Economy and Public Administration Moscow, Russia |
| 2020 - 2021 | Lecturer Courses: Psychology of Decision Making | Russian Academy of National Economy and Public Administration Moscow, Russia |
| 2020 | Lecturer Course: Foundation of Applied Cognitive Psychology | HSE University Saint Petersburg, Russia |
| 2020-2021 | <i>Theory & Practice of Creative Thinking</i> (March 1st, 2020). <i>Psychology of Problem Solving</i> (December 15th, 2021). <i>Creativity and Problem Solving in Cognitive Psychology</i> (December 2020). <i>Psychology of Problem Solving</i> (November 2020). | HSE University Saint Petersburg, Russia |
| 2019 - 2020 | <i>Creative mind: Where do novel ideas come from?</i> (Feb 5th, 2020). <i>Getting over impasse: How new ideas are born?</i> (February, 2020). <i>Insight, Aha! experience, and problem solving</i> (November 2019). <i>How do psychologists study unobservable things</i> (December 2019). <i>Emotions & Cognition</i> (October 29th, 2019). <i>Insight: Myth or reality? The sad story of one phenomenon</i> (January 14th, 2019). | Saint Petersburg State University Saint Petersburg, Russia |
| 2017 | Teaching Assistant | Saint Petersburg State University Saint Petersburg, Russia |

RESEARCH SUPERVISION

As a research assistant at SPBU and a junior researcher at RANEPa, I consulted bachelor's and Master's students on developing research questions, programming experiments, and data analysis and reviewed their work.

I have supervised several bachelor-level research works as a part of teaching the "Psychology of Decision Making" course in 2020-2021:

- *The effect of eliciting fear on the decisions about the purchases.*

- *The effect of the gender stereotypes in advertisements on the consumer choice.*
- *The effect of the sexualised advertisement on the remembering of the goods.*
- *The effect of processing fluency on the trust to advertisement.*

RESEARCH GRANTS

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| <p>2019-2022 The role of Aha!-experience in problem solving and remembering acquired knowledge <i>RFBR Grant 20-013-00532</i></p> | <ul style="list-style-type: none"> ● Writing application ● Coordinating research projects ● Writing reports |
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PUBLICATIONS

Preprints

1. **Ammalainen, A.**, & Moroshkina, N. (2023, April 17). A sudden increase in perceptual fluency enhances the probability of an Aha!-like comprehension in remote associate test problems. <https://doi.org/10.31234/osf.io/aqj5y>

Journal articles (In English)

1. Moroshkina NV, Pavliuchik EI, **Ammalainen AV**, Gershkovich VA and Lvova OV (2024) The Aha! experience is associated with a drop in the perceived difficulty of the problem. *Front. Psychol.* 15:1314531. <https://doi.org/10.3389/fpsyg.2024.1314531>.
2. **Ammalainen, A.** & Moroshkina, N. (2022) Where does Eureka come from? The effect of unreportable semantic hints in the phenomenology of insight. *Journal of Intelligence*, 10(4), 110. <https://doi.org/10.3390/jintelligence10040110>.
3. Moroshkina, N., Savina, A., **Ammalainen, A.**, Gershkovich, V., Zverev, I., Lvova, O. (2022) How difficult was it? Metacognitive judgements about problems and their solutions after Aha! moment. *Frontiers in psychology*. 13:911904. doi: 10.3389/fpsyg.2022.911904.
4. **Ammalainen, A.** & Moroshkina, N. (2020) The effect of true and false unreportable hints on anagram problem solving, restructuring, and the Aha!-experience. *Journal of Cognitive Psychology*, 33, 6–7, 644–658. <https://doi.org/10.1080/20445911.2020.1844722>
5. **Ammalainen, A.V.** & Moroshkina, N.V. (2019) When an error leads to confidence: false insight and feeling of knowing in anagram solving. *Psychology Journal of the Higher School of Economics*. 16 (4), 774–783. DOI: 10.17323/1813-8918-2019-4-774-783

Journal articles (in Russian)

1. Moroshkina, N.V. & **Ammalainen, A.V.** (2021) From Insight to Aha! experience: A new paradigm in the research of insight problem solving. *Sibirskiy Psihologicheskiy Zhurnal [Siberian psychological journal]*, 79, 48-73. DOI: 10.17223/17267080/79/4
2. Moroshkina, N.V., **Ammalainen, A.V.**, Savina, A.I. (2020) Catching up with insight: modern approaches and methods of measuring insight in cognitive psychology. *Psihologicheskie issledovaniya [Psychological studies]*, 74(13).
3. Tikhonov, R. V., **Ammalainen, A. V.**, & Moroshkina, N. V. (2018). The variety of metacognitive feelings: Different phenomena or different terms? *Vestnik of Saint Petersburg University. Psychology and Education*, 8(3), 214–242. <https://doi.org/10.21638/11701/spbu16.2018.302>

Peer-reviewed conference papers (in Russian)

1. Spiridonov, V.F., Loginov N.I., **Ammalainen A.V.**, Vyazovkina V.K., Ardislamov V.V., Anufriev G.V. (2021) Mental models in action: The difference of consistent responses is less than inconsistent. *Cognitive science in Moscow: New research*, 406-410 (Moscow, 2021)
2. Loginov, N.I., Spiridonov, V.F., Kurbanov K.A., Ardislamov V.V., **Ammalainen, A.V.** Vyazovkina, V.K. (2021) The long-term individual differences in preferences of mental VS embodied problem solving. *Cognitive science in Moscow: New research*, 255-260 (Moscow, 2021).
3. **Ammalainen, A.V.**, Moroshkina, N.V. The effect of unreportable hints on cognitive and affective components of insight in anagrams solving (2021). *Cognitive psychology: Lower- and higher-level processing*, 7-11 (Yaroslavl, 2021).

CONFERENCE PRESENTATIONS

- 2024**
1. *Metacognitive Markers of the Prevalence-Induced Concept Change*. Tagung experimentell arbeitender Psycholog:innen; Conference of Experimental Psychologists, Regensburg (poster presentation).
 2. *The Effect Of Feedback On Behavioural And Subjective Measures Of Insight Problem Solving*. International Conference on Thinking, Milan (poster presentation).
- 2023**
1. *How deliberative processes affect the pattern of activation spreading in compound remote associate (CRA) problems*. 23rd Conference of the European Society for Cognitive Psychology, Porto (poster presentation)
- 2022**
1. *The Changes In Perceptual Processing Fluency Increase The Chances Of "Aha!"-Like Comprehension Of The Solution In Remote Associate Problems*. The first meta-reasoning conference, Jerusalem (oral presentation)
- 2021**
1. *Do constraints guide the search in remote associate problems?* The Bruner Memorial Conference on Cognitive Psychology, Yaroslavl (oral presentation)
 2. *The Unreportable Semantic Hints Influence the Aha!-experience, Certainty, and Subjective Suddenness of the Solutions in Anagram Solving*. Psychonomic Society 62nd Annual Meeting, online (poster presentation)
 3. *The influence of semantic hints on behavioural and phenomenological measures of insight problem solving*. Rationality in the digital age, online (oral presentation)
 4. *The effect of processing fluency on the coherence judgments in remote associate problems*. The Duncker Memorial Summer School on cognitive psychology, Moscow (poster & oral presentation)
- 2020**
1. *The effect of unreportable semantic hints on cognitive and affective components of insight in anagram solving*. The Bruner Memorial Conference on Cognitive Psychology, Yaroslavl, Yaroslavl (oral presentation)
 2. *The effect of perceptual fluency on the affective component of insight*. The Duncker Memorial Summer School on Cognitive Psychology, Moscow (poster presentation)
 3. *Processing fluency: objective feature, subjective feeling, or latent construct?* The Duncker Memorial Summer School on Cognitive Psychology, Moscow (oral presentation)
 4. *The sources of Aha! Experience: representational change or unconscious processing?* Online seminar "From insight to Aha! Experience", online (oral presentation)
- 2019**
1. *Inducing false insights using reportable and unreportable semantic hints*. 21st Conference of the European Society for Cognitive Psychology, Tenerife (poster presentation)
 2. *The effect of semantic hints on the strength of Aha! experience and probability of false insights*. The Duncker Memorial Summer School on Cognitive Psychology, Moscow (poster presentation)
- 2018**
1. *The effect of unawared meanings of ambiguous anagrams on the feeling of error*. The Duncker Memorial Summer School on Cognitive Psychology, Moscow (poster presentation)
 2. *The effect of semantic priming on metacognitive judgments*. Psychology of the XXI century. Saint Petersburg (oral presentation)

MANAGEMENT EXPERIENCE

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| 27th April 2020 | Seminar "From Insight to Aha! Experience" <i>Online</i> (https://osf.io/v96gn/) | Co-organizer |
| 2018-2020 | A popular science festival "The Week of Cognitive Psychology", 6 editions <i>Saint Petersburg State University, Russia</i> | Co-organizer |
| 29th–31st March 2019 | Conference "Paradoxes of Consciousness: The Problem of Categorisation" | Co-organizer |

Saint Petersburg University, Russia
(<https://osf.io/n4sj3/>)

PSYCHOLOGICAL PRACTICE

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| 2016-2019 | Volunteer at “Your Territory” – a non-profit organisation providing free psychological and crisis counselling for teenagers and young adults | Saint Petersburg, Russia |
| 2015-2016 | School psychologist assistant at State School #xxx | Saint Petersburg, Russia |