

Ruslan Klymentiev

50% Data Scientist, 50% Neuroscientist

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AREAS OF INTEREST

Reinforcement Learning · Bayesian Statistics · Decision-making · Computational Psychiatry

WORK EXPERIENCE

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|---|-------------------|
| Research Assistant at <i>Otto von Guericke University Magdeburg</i> | 12/2020 – present |
| Data Science Instructor at <i>DEVrepublik</i> | 09/2019 – 04/2021 |
| Data Analyst/Scientist at <i>Bennett Data Science</i> | 08/2018 – 08/2019 |
| Junior Data Analyst at <i>CARiD</i> | 01/2017 – 05/2018 |

EDUCATION

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|---|-------------------|
| <i>Otto von Guericke University Magdeburg</i> MSc Integrative Neuroscience | 10/2020 – 09/2022 |
| <i>Odesa National Polytechnic University</i> BSc Radioelectronic Apparatuses | 09/2010 – 07/2014 |

TEACHING EXPERIENCE

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| Online self-paced course Python for Neuroscience: pyforneuro.com | |
| <i>Neuromatch Academy</i> , TA at Computational Neuroscience Course | 07/2021 |
| <i>DEVrepublik</i> , Statistics for Data Science | 03/2020 – 10/2021 |
| <i>DEVrepublik</i> , Python for Data Science | 03/2020 – 10/2021 |
| <i>DEVrepublik</i> , Data Science 3-month Bootcamp | 10/2019 – 03/2020 |

TALKS & WEBINARS

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| <i>Brainhack Magdeburg 2021</i> , Introduction to Python | 12/2021 |
| <i>DEVrepublik Webinar</i> , Who would you rather date, Bayes Factor or p-value? | 05/2021 |
| <i>DEVrepublik Conference</i> , Data Viz Hacking | 12/2020 |
| <i>DEVrepublik Podcast</i> , How to start career in Data | 07/2020 |
| <i>DEVrepublik Webinar</i> , Statistical Hypothesis Testing | 06/2020 |
| <i>DEVrepublik Webinar</i> , Packages for Data Visualization | 04/2020 |
| <i>DEVrepublik Webinar</i> , Intro to NumPy, pandas & SymPy | 04/2020 |

Preprints

1. Deane, K. E., **Klymentiev, R.**, Heck, J., Mark, M. D., Ohl, F. W., Heine, M., Happel, M. F. K. (2022). Inhibiting presynaptic calcium channel mobility in the auditory cortex suppresses synchronized input processing. *bioRxiv*. <https://doi.org/10.1101/2022.03.30.486338>

BLOG POSTS

12. Klymentiev, R. (2022, May 14). *Psychopaths: the Good, the Bad, and the Crazy*. RK. <https://rklymentiev.com/post/psychopathy>
11. Klymentiev, R. (2021, November 13). *Computational Models of Behavior, part 2*. RK. <https://rklymentiev.com/post/computational-models-of-behavior-pt2/>
10. Klymentiev, R. (2021, October 25). *Computational Models of Behavior, part 1*. RK. <https://rklymentiev.com/post/computational-models-of-behavior-pt1/>
9. Klymentiev, R. (2021, February 19). *Intro to EEG Data Analysis*. RK. <https://rklymentiev.com/post/eeg-preprocessing-erp/>
8. Klymentiev, R. (2020, November 14). *Who would you rather date, Bayes Factor or p-value?*. RK. <https://rklymentiev.com/post/frequentist-vs-bayesian/>
7. Klymentiev, R. (2020, August 15). *Role of Antidepressants in the Treatment of Major Depressive Disorder*. RK. <https://rklymentiev.com/post/role-of-antidepressants/>
6. Klymentiev, R. (2020, June 2). *Null Hypothesis Significance Testing, part 3*. RK. <https://rklymentiev.com/post/null-hypothesis-significance-testing-part-3/>
5. Klymentiev, R. (2020, May 22). *Null Hypothesis Significance Testing, part 2*. RK. <https://rklymentiev.com/post/null-hypothesis-significance-testing-part-2/>
4. Klymentiev, R. (2020, May 8). *Null Hypothesis Significance Testing, part 1*. RK. <https://rklymentiev.com/post/null-hypothesis-significance-testing-part-1/>
3. Klymentiev, R. (2020, April 22). *How do CART models work*. RK. <https://rklymentiev.com/post/how-do-cart-models-work/>
2. Klymentiev, R. (2020, March 30). *Bayes Rule and Disease Testing*. RK. <https://rklymentiev.com/post/bayes-rule-and-disease-testing/>
1. Klymentiev, R. (2019, April 1). *How to Deal with Multi-Armed Bandit Problem*. RK. <https://rklymentiev.com/post/mab-problem/>

APPLICATIONS & DEMOS

- ASL Hand Gestures Recognition from the Webcam: [GitHub](#)
- Bandit Cats and Exploration-Exploitation Trade-Off: [RShiny App](#)
- Bayes Rule Calculator: [RShiny App](#)
- Normal Approximation to Binomial Distribution: [RShiny App](#)
- ROC Curve Simulation: [RShiny App](#)
- Q-Learning Model Demo: [Streamlit App](#)