



2021-IPR-F-000-018148

SARS-CoV-2 Generative Models for virus mutations

<p>Position for:</p> <p>Trainee</p>	<p>As the science and knowledge service of the Commission, the mission of Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.</p> <p>The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: https://ec.europa.eu/jrc/en</p> <p><u>Short description of activity:</u> The core task of this activity regards scientific/technical activities in the area of mRNA mutations of SARS-CoV-2 virus and variants prediction. Main task will include the study of Applications of deep generative models (DGM), to generate synthetic data of expected future virus mutations variants outbreaks. Under the supervision of the advisor, the trainee will contribute to develop DGANs(Generative Adversarial Networks) which would generate synthetic data of mutations delivering recommendations and predictions on future variants evolution of SARS-CoV-2 virus. The trainee will have the opportunity to strengthen his/her skills on Artificial Intelligence and to contribute to the other COVID-19 related activities of the Unit.</p> <p><u>Qualifications:</u></p> <p><u>Essential:</u></p> <p>University degree in Bioinformatics, Artificial intelligence, Biotechnology or related disciplines.</p> <p>Good Knowledge of spoken and written English (B2 level).</p>
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	<p><u>Advantage:</u></p> <p>Hands-on experience in one of the following fields:</p> <ul style="list-style-type: none"> • Generative Adversarial Networks(GANs) • Variational Autoencoders • Zero-Shot Learning • Multimodal Deep Generative Models • Generative Adversarial Imitation Learning • Deep Reinforcement Learning <p>Publications in this field in English</p> <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Unit /Directorate	<p>Directorate F – Health, Consumers and Reference Materials Knowledge for Health and Consumer Safety Unit Further information: https://ec.europa.eu/jrc/en</p>
Duration	5 months
Preferred starting date	As soon as possible
JRC Site	Ispra
Country	Italy
JRC contact details	<p>For any technical problems with your application, please contact: HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</p>