

Toulouse, May 11th, 2021

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**Subject:** Registration certificate to RLVS 2021

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To whom it may concern,

I, the undersigned Sébastien Gerchinovitz, head of the organizing committee of the Reinforcement Learning Virtual School, hereby certify that Dheeraj Tupe (drtupe.fr@gmail.com) has registered to the Reinforcement Learning Virtual School (<https://rlvs.aniti.fr/>).

This event was 100% online and the program of the school consisted of about 32 hours of lectures, hands-on sessions, and research talks (mix of theory and practice), with the goal of providing an easy access to the field of Reinforcement Learning to new researchers in the field. A detailed outline of the school is attached to this letter.

This Virtual School has been organized by ANITI with the support of Institut de Mathématiques de Toulouse - Université Toulouse III – Paul Sabatier, IRT Saint Exupéry, ISAE SUPERO, Laboratoire d'Analyse et d'Architecture des Systèmes – CNRS, Toulouse School of Economics - Université Toulouse I – Capitole, and Université Fédérale Toulouse Midi-Pyrénées. It has been sponsored by DeepMind.

Duration: 6 days / 32 hours

Dates: March 25-26, April 1-2 and April 8-9, 2021

On behalf of the organizing committee,

**Head of the RLVS 2021 organizing  
committee**



**Sébastien Gerchinovitz**

## Detailed program of RLVS 2021

Date	Time slots	Sessions	Speaker
25/03/2021	09:00-09:10	Opening Remarks	Sébastien Gerchinovitz
	09:10-9:30	RLVS Overview	Emmanuel Rachelson
	09:35-13:00	RL Fundamentals	Emmanuel Rachelson
	14:00-16:00	Introduction to Deep Learning	Dennis Wilson
	16:30-17:30	Reward Processing Biases in Humans and RL Agents	Irina Rish
	17:45-18:45	Introduction to Hierarchical Reinforcement Learning	Doina Precup
26/03/2021	10:00-12:00	Stochastic Bandits	Tor Lattimore
	14:00-16:00	Monte Carlo Tree Search	Tor Lattimore
	16:30-17:30	Multi-Armed Bandits in Clinical Trials	Donald A. Berry
01/04/2021	09:00-12:30	Deep Q-Networks and its Variants	Bilal Piot, Corentin Tallec
	14:00-15:00	Deep Q-Networks and its Variants	Bilal Piot, Corentin Tallec
	15:15-16:15	Regularized MDPs	Matthieu Geist
	16:30-17:30	Regret Bounds of Model-Based Reinforcement Learning	Mengdi Wang
02/04/2021	09:00-12:30	Policy Gradients and Actor Critic Methods	Olivier Sigaud
	14:00-15:00	Pitfalls in Policy Gradient Methods	Olivier Sigaud
	15:30-17:30	Exploration in Deep RL	Matteo Pirotta
08/04/2021	09:00-11:00	Evolutionary Reinforcement Learning	Dennis Wilson, JB Mouret
	11:30-12:30	Evolving Agents that Learn More Like Animals	Sebastian Risi
	14:00-16:00	Micro-data Policy Search	Konstantinos Chatzilygeroudis, JB Mouret
	16:30-17:30	Efficient Motor Skills Learning in Robotics	Dongheui Lee
09/04/2021	09:00-13:00	RL in Practice: Tips and Tricks and Practical Session With Stable-Baselines3	Antonin Raffin
	14:30-15:30	Symbolic Representations and Reinforcement Learning	Marta Garnelo
	15:45-16:45	Leveraging Model-Learning for Extreme Generalization	Leslie P. Kaelbling
	17:00-18:00	RLVS Wrap-up	Emmanuel Rachelson and Sébastien Gerchinovitz