

SUSHRUT THORAT

CONTACT INFORMATION	EMAIL: sushrut.thorat94@gmail.com WEBPAGE: sushrutthorat.com GITHUB: novelmartis OTHER INFO: G-Scholar , Full-CV
INTERESTS	The building blocks of open-domain artificial agents - knowledge representation, continual learning, memory encoding and retrieval, and theory of mind; Neuroscience-inspired AI
EDUCATION	<p>Ph.D. in Cognitive Neuroscience <i>Ongoing</i> Donders Centre for Cognition, Radboud University, The Netherlands</p> <p>M.Sc. (with honors) in Cognitive Neuroscience <i>July, 2017</i> Center for Mind/Brain Sciences (CIMEC), University of Trento, Italy</p> <p>B.Tech. in Engineering Physics <i>August, 2015</i> Department of Physics, Indian Institute of Technology - Bombay (IIT-B), India</p>
TECHNICAL PROFICIENCY	<p>Programming languages: Python, MATLAB, Javascript</p> <p>Machine learning frameworks: TensorFlow, PyTorch, MatConvNet</p> <p>Experimentation frameworks: PsychToolbox, jsPsych, Pavlovio</p> <p>Neuro-imaging: fMRI (data acquisition and analysis), EEG (data analysis)</p>
SELECTED PEER-REVIEWED PUBLICATIONS	<p><u>Thorat S*</u>, Aldegheri G*, Kietzmann TC (2021). Category-orthogonal object features guide information processing in recurrent neural networks trained for object categorization. <i>Shared Visual Representations in Human & Machine Intelligence Workshop @ NeurIPS</i>. *equal contribution.</p> <p><u>Thorat S</u>, Proklova D, Peelen MV (2019). The nature of the animacy organization in human ventral temporal cortex. <i>eLife</i> 8: e47142.</p> <p><u>Thorat S</u>, van Gerven MAJ, Peelen MV (2018). The functional role of cue-driven feature-based feedback in object recognition. <i>Conference on Cognitive Computational Neuroscience (CCN)</i>: 1-4.</p> <p><u>Thorat S</u>, Choudhari V (2016). Implementing a Reverse Dictionary, based on word definitions, using a Node-Graph Architecture. <i>Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers</i>: 2797-2806.</p> <p><u>Thorat S</u>, Rajendran B (2015). Arithmetic computing via rate coding in neural circuits with spike-triggered adaptive synapses. <i>International Joint Conference on Neural Networks (IJCNN)</i>: 1-8.</p>
NOTABLE ACHIEVEMENTS	<ul style="list-style-type: none">– Voted best poster/short-pitch, among 15 posters, in the 'Perception, Action, and Control' theme at the annual Donders Poster Session (2020)– Recipient of the Merit Award (2017), awarded to students who achieve remarkable results at the end of their degree, by the University of Trento, Italy.– Recipient of the Abstract Award, awarded to 5 of the 57 accepted abstracts at the Rovereto Workshop on Concepts, Actions and Objects (2017).– Ranked 721 among 450,000 students in the Joint Entrance Examination (JEE, 2011) conducted towards admission to the Indian Institute of Technology (IIT).
REVIEWING WORK	eLife'20, Monk Prayogshala'19 , Conference on Cognitive Computational Neuroscience (CCN)'19
SUPERVISION EXPERIENCE	Supervised 7 undergraduates and 1 masters student during their thesis projects.