

# SUSHRUT THORAT

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CONTACT INFORMATION	EMAIL: <a href="mailto:sushrut.thorat94@gmail.com">sushrut.thorat94@gmail.com</a> WEBPAGE: <a href="http://sushrutthorat.com">sushrutthorat.com</a> GITHUB: <a href="#">novelmartis</a> OTHER INFO: <a href="#">G-Scholar</a> , <a href="#">Full-CV</a>
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><b>Ph.D. in Cognitive Neuroscience</b> <span style="float: right;"><i>Ongoing</i></span> Donders Centre for Cognition, Radboud University, The Netherlands</p> <p><b>M.Sc. (with honors) in Cognitive Neuroscience</b> <span style="float: right;"><i>July, 2017</i></span> Center for Mind/Brain Sciences (CIMEC), University of Trento, Italy</p> <p><b>B.Tech. in Engineering Physics</b> <span style="float: right;"><i>August, 2015</i></span> Department of Physics, Indian Institute of Technology - Bombay (IIT-B), India</p>
TECHNICAL PROFICIENCY	<p><b>Programming languages:</b> Python, MATLAB, Javascript</p> <p><b>Machine learning frameworks:</b> TensorFlow, PyTorch, MatConvNet</p> <p><b>Experimentation frameworks:</b> PsychToolbox, jsPsych, Pavlovian</p> <p><b>Neuro-imaging:</b> 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 &amp; 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"><li>• Voted <b>best poster/short-pitch</b>, among <b>15 posters</b>, in the 'Perception, Action, and Control' theme at the annual Donders Poster Session (2020)</li><li>• Recipient of the <b>Merit Award</b> (2017), awarded to students who achieve remarkable results at the end of their degree, by the University of Trento, Italy.</li><li>• Recipient of the <b>Abstract Award</b>, awarded to <b>5 of the 57</b> accepted abstracts at the Rovereto Workshop on Concepts, Actions and Objects (2017).</li><li>• Ranked <b>721 among 450,000</b> students in the Joint Entrance Examination (<b>JEE, 2011</b>) conducted towards admission to the Indian Institute of Technology (IIT).</li></ul>
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.