

SUSHRUT THORAT

CONTACT INFORMATION	EMAIL: sushrut.thorat94@gmail.com WEBPAGE: sushrutthorat.com GITHUB: novelmartis OTHER INFO: G-Scholar , Full-CV
GOAL	Understanding and building resource-constrained agents that can learn and function in the wild
ACADEMIC TRAJECTORY	<p>Postdoc in Machine Learning <i>Ongoing</i> <i>Institute of Cognitive Science, Osnabrück University, Germany</i></p> <p>Ph.D. in Cognitive Neuroscience <i>November, 2022</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, Pavlovía</p> <p>Neuro-imaging: fMRI (data acquisition and analysis), EEG (data analysis)</p>
SELECTED 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>Anthes D, <u>Thorat S</u>, König P, Kietzmann TC (2023). Diagnosing catastrophe: Large parts of accuracy loss in continual learning can be accounted for by readout misalignment. <i>Conference on Cognitive Computational Neuroscience (CCN)</i>: 748-751.</p> <p><u>Thorat S</u>, Peelen MV (2022). Body shape as a visual feature: evidence from spatially-global attentional modulation in human visual cortex. <i>NeuroImage</i>: 119207.</p> <p><u>Thorat S</u>, Doerig A, Kietzmann TC (2023). Characterising representation dynamics in recurrent neural networks for object recognition. <i>Conference on Cognitive Computational Neuroscience (CCN)</i>: 645-647.</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 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	Neural Networks, PLOS Computational Biology, Nature Communications, Science Advances, NeurIPS workshops, Memory & Cognition, eLife, CCN
SUPERVISION	Supervised 9 undergraduate, 3 masters, and 3 PhD students.