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

Postdoc in Machine Learning *Ongoing*
Institute of Cognitive Science, Osnabrück University, Germany

Ph.D. in Cognitive Neuroscience *November, 2022*
Donders Centre for Cognition, Radboud University, The Netherlands

M.Sc. (with honors) in Cognitive Neuroscience *July, 2017*
Center for Mind/Brain Sciences (CIMeC), University of Trento, Italy

B.Tech. in Engineering Physics *August, 2015*
Department of Physics, Indian Institute of Technology - Bombay (IIT-B), India

TECHNICAL PROFICIENCY

Programming languages: Python, MATLAB, Javascript

Machine learning frameworks: TensorFlow, PyTorch, MatConvNet

Experimentation frameworks: PsychToolbox, jsPsych, Pavlovia

Neuro-imaging: fMRI (data acquisition and analysis), EEG (data analysis)

SELECTED PUBLICATIONS

Thorat S*, Aldegheri G*, Kietzmann TC (2021). Category-orthogonal object features guide information processing in recurrent neural networks trained for object categorization. *Shared Visual Representations in Human & Machine Intelligence Workshop @ NeurIPS*. *equal contribution.

Thorat S, Proklova D, Peelen MV (2019). The nature of the animacy organization in human ventral temporal cortex. *eLife* 8: e47142.

Thorat S, van Gerven MAJ, Peelen MV (2018). The functional role of cue-driven feature-based feedback in object recognition. *Conference on Cognitive Computational Neuroscience (CCN)*.

Thorat S, Peelen MV (2022). Body shape as a visual feature: evidence from spatially-global attentional modulation in human visual cortex. *NeuroImage*: 119207.

Thorat S, van Gerven MAJ, Peelen MV (2018). The functional role of cue-driven feature-based feedback in object recognition. *Conference on Cognitive Computational Neuroscience (CCN)*.

Thorat S, Quek GL, Peelen MV (2022). Statistical learning of distractor co-occurrences facilitates visual search. *Journal of Vision* 22(10):2.

NOTABLE ACHIEVEMENTS

- 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).

REVIEWER

Nature Communications, Science Advances, NeurIPS workshops, Memory & Cognition, eLife, CCN

SUPERVISION

Supervised 11 undergraduate and 2 masters students during their thesis projects.