

VQA-MHUG Dataset

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April 15, 2024

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2 MATERIAL UNDER LICENSE

The material under License (hereafter: “Dataset”) is a database described in the paper “VQA-MHUG: A Gaze Dataset to Study Multimodal Neural Attention in Visual Question Answering” (Sood et al., 2021). The 49- participant Dataset contains multimodal human gaze on both images and questions during visual question answering (VQA) collected using a head-mounted high-speed eye tracker. We release the main Dataset which is collected in accordance to our published paper (see above)¹. To the best of our knowledge, this is the first multimodal eye tracking dataset over a subset of the VQA v2 validation split (Goyal et al., 2017) and thus provides a gold standard to compare and supervise model & human visual attention in the multimodal visual question answering task. All participant data is fully anonymized.

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¹for access to VQA-MHUG jr., which is collected under a slightly modified scheme – the text and image on the same page – please contact the corresponding author.

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11 PUBLICATIONS

Any work or publication that uses the Dataset, or results obtained with it, has to reference the following publication:

Ekta Sood, Fabian Kögel, Florian Strohm, Prajit Dhar, Andreas Bulling. 2021. *VQA-MHUG: A Gaze Dataset to Study Multimodal Neural Attention in Visual Question Answering*. In Proceedings of the 25th Conference on Computational Natural Language Learning (ConLL 2021). Association for Computational Linguistic, pp.27-43

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14 Signatures

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Organization address:

Full Name:

Position:

Email address:

Full Name (of researchers who will work with our dataset):

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Date:

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