

# Effect of expertise in visual arts in object recognition of distorted visual stimuli

**BORBÁLA TAMÁS<sup>1</sup>**

**ANDREA BARTA<sup>2</sup>**

**ISTVÁN SZAMOSKÖZI<sup>3</sup>**

## **Abstract**

The aim of the recent study was to examine visual arts, history of arts and psychology students' (N=72) object recognition of distorted images. We used a computer programmed task. The program measured reaction time, number of skipped pictures between trials and answer correctness of visual arts, history of arts and psychology students. We found significant differences between visual arts and psychology students' reaction time, however neither in correct answer nor in number of skipped images were shown significant differences between groups. Art history students' reaction time tends to represent an intermediary group, where their reaction time showed no significant difference compared to that of visual arts and psychology students.

## **Keywords**

visual artists, distorted image, object recognition, top-down process, bottom-up process, reaction time

---

<sup>1</sup> Corresponding author: Borbála Tamás, e-mail: borbala.tamas@ubbcluj.ro, PhD student, Babeş-Bolyai University, Evidence-based Assessment and Psychological Interventions Doctoral School, Cluj-Napoca, Romania

<sup>2</sup> Andrea Barta, PhD student, Babeş-Bolyai University, Evidence-based Assessment and Psychological Interventions Doctoral School, Cluj-Napoca, Romania

<sup>3</sup> Prof. Dr. István Szamosközi, Babeş-Bolyai University, Faculty of Psychology and Educational Sciences, Department of Applied Psychology, Cluj-Napoca, Romania