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Title: Evidence for the triadic model of adolescent brain development: Cognitive load and task-relevance of emotion differentially affect adolescents and adults

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**Evidence for the triadic model of adolescent brain development: cognitive load and task-relevance of emotion differentially affect adolescents and adults****Short title:** Working memory for (ir)relevant emotionSven C. Mueller<sup>1§</sup>, Sofie Cromheeke<sup>1</sup>, Roma Siugzdaite<sup>2</sup>, C. Nicolas Boehler<sup>2</sup><sup>1</sup>Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium<sup>2</sup>Department of Experimental Psychology, Ghent University, Ghent, Belgium

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**Highlights**

- Little is known how emotion interacts with cognitive control in adolescents
- Adolescents and adults completed emotional working memory task during 3T fMRI
- Cognitive load interacted with emotion in adults but not adolescents in dlPFC
- Ventral striatum activity to happy faces was larger in adolescents relative to adults
- Under task relevance amygdala activation was stronger to happy faces in adolescents

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