

STRAPMAT

The software application “StrApMat” is dedicated to supporting the development of arithmetical competences in elementary school children.

ERG\NEO

L'AVENIR EST FAIT D'AUDACE

PRESENTATION

“StrApMat” is designed around neuroscience principles of effective learning, applied to the academic domain of mathematics. It supports equal opportunities for progress in mathematical learning by leveraging neurocognitive mechanisms of reward processing and emotion regulation.



Mathematics - Arithmetic - Neuroscience - Software -
Educational achievement gap

APPLICATIONS

- Mathematics education
- Inequalities in mathematics achievement
- Individual differences in mathematics learning

INTELLECTUAL PROPERTY

- Copyright-protected software; trademark and deposit in preparation.

DEVELOPMENT PHASE

- ☑ Software development being finalized

CONTACT

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COMPETITIVE ADVANTAGES

- Highly scalable software solution
- Designed to address disparities in mathematics learning and achievement
- Leverages reward-related neurocognitive processes
- Leverages emotion regulation

PUBLICATIONS

- [Iuculano, T. \(2018\). Facteurs socioéconomiques et cerveau. In: Le cerveau et les apprentissages. O. Houdé & G. Borst \(Eds.\), Nathan publishers. pp. 202-205](#)
- [Iuculano, T. \(2020\). Forming and consolidating arithmetical facts in the brain. In: International Bureau of Education-UNESCO Portal/ Sciences of Learning.](#)
- [Iuculano, T. \(2020\). Adverse environments for \(disadvantaged\) development and learning: what brain systems are the most impacted? In: International Bureau of Education-UNESCO Portal/ Sciences of Learning.](#)
- [Iuculano, T. \(2022\). Neuroplasticity in Response to Mathematical Intervention. In: The Cambridge Handbook of Dyslexia and Dyscalculia. M.A. Skeide \(Ed.\). Cambridge University Press. pp. 221-228.](#)

LABORATORIES

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