



# How to use Neuroscience and AI to grow and individual

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**Vivienne Ming, Founder and Chair, Socos Labs:**

[00:04] Now we're starting to push into a new world. We can directly influence the brain. What we call it is neuroprosthetics. Or more particularly in my work: cognitive neuroprosthetics.

[00:16] We actually found that we can increase your cognitive ability – things like working memory span – using a technology called 'Transcranial Alternating Current Simulation'. Where we monitor all these parts of your brain and then we can actually drive synchrony across different parts to increase things like working memory span.

[00:41] Once we've tested some of these things out, over the next few years, it might be very reasonable to go to a kid that has, um, maybe some early life trauma or a brain injury or a developmental disability, or on the flip-side, someone that is experiencing cognitive decline.

[00:55] Specifically when that child is engaged in deep attentional work, for 15 minutes. Give them a little boost, let them formulate some new insights and ideas that they might not quite be able to do on their own. Then you turn it off again. And then you let them go through the rest of the educational experience.

[01:14] So these are some of the truly out-there ideas that we're looking at right now. In terms of how do we take someone and the life they were born into that was taken away from them. And try and give a little bit of that back.

[01:26] The world gets better when everyone's life is better.

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