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September 2021 Newsletter

Featured Research

A Functional Connectomics Dataset Spanning Multiple Visual Areas
Neuroglancer
The Allen Institute has released an open-access, interactive visualization of a functional connectome that spans a cubic millimeter. This is the most detailed connectomics model released to date. The data, containing multiple visual areas in a mouse brain, maps 200,000 cells and more than 500 million synapses.

High-Throughput Mapping of a Whole Rhesus Monkey Brain
Fang Xu, Yan Shen, Lufeng Ding, et al
Until recently, the mapping of an entire primate brain has not been possible due to its large size and limited imaging methods. A new technology combines microscopy and reconstruction to create a high-resolution connectome within 100 hours. The resulting visualizations include thalamocortical and individual axonal projections.

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Mind Uploading Media
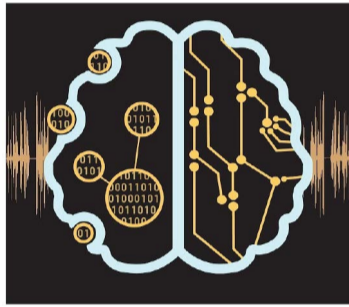

The Road to Mind Uploading
Brain Inspired Podcast
Randal Koene and Ken Hayworth participate in an hour-long discussion on Whole Brain Emulation. They explain the methods of "scan-and-copy" and "gradual replacement". The podcast episode touches on technological approaches, brain preservation, inspirations for mind uploading, and the future of neuroscience.

Ghost in the Shell
dir. Mamoru Oshii
This film is a science-fiction anime set in 2029 where cybernetic technology is common, allowing for transcendence from physical bodies. A mechanical layer of the brain enables direct access to the Internet and can also be hacked. Computers and humans intermingle.
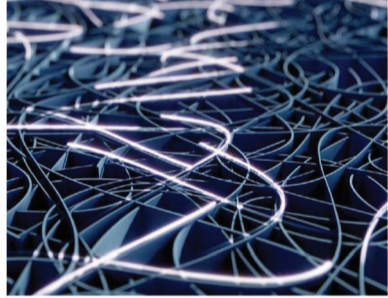
Brain Uploading
The Brain With David Eagleman
In a brief clip, neuroscientist David Eagleman gives an introduction to the concept of mind uploading. As technology evolves, becoming more sophisticated, we may utilize it to emulate our brains and enhance our capabilities.

Join the Carboncopies Foundation!

Open Tasks & Roles

Director of Donations
Grants Department
You will work alongside our Grants Director, who is responsible for all work related to applying for different grants. Your role will be to focus on other areas where CCF might raise funds. This includes donations, crowdfunding, and setting up budgets for departments. You will also lead a team of volunteers who will help you with this work.

Co-Lead
Publishing Department
Alongside the lead of the Publishing Department, you will be responsible for making sure the Department runs smoothly. Your role will be to support the lead in onboarding new team members, running calls and meetings, and performing priority tasks when necessary. This includes developing tools for leading the Department and ensuring team members are engaged with their work.

HR Section Team Member / Co-Lead
Operations Department
The HR Section works on tasks related to recruiting and onboarding new team members as well as supporting leads in managing their projects or departments. Team members will work on tasks such as writing role descriptions, running onboarding calls, and developing routines and tools for leads. The co-lead will support the lead of the HR section in onboarding new team members.

Team Member
Communications Department
The Communications Department works on tasks related to communicating the work of other departments and projects as well as running its own projects/campaigns related to Whole Brain Emulation. We need team members who want to help with tasks related to writing content to increase public awareness about WBE, recording 1-minute ad voiceovers, cleaning up transcriptions and generating materials.

What do you think of the new Carboncopies monthly newsletter?