

# Welcome to BrainHack School Mtl 2020!!

*May 11th-June 5th, 2020*  
[school.brainhackmtl.org](https://school.brainhackmtl.org)

# Why BrainHack school?



Olivia Guest | Ολίβια Γκεστ

@o\_guest

Circling back to UGs in psych: they should be taught how to code — BUT! — it's also true for PhD students.

You need to learn to code. You can do it, we can help you, it's not as hard as you think, & it'll help you in the long run including to get a job.



neuroplausible: Why Women in Psychology Can't Program

About two months ago my brother, who works in data science on social psychology data, asked me why his colleagues, who ...

[neuroplausible.com](https://neuroplausible.com)

9:45 AM · Aug 4, 2019 · [Twitter Web App](#)

# Why BrainHack school?



**Jake VanderPlas**  
@jakevdp

Following



My advice on learning Python:

Don't set out to "learn Python". Choose a problem you're interested in and learn to solve it with Python.

8:24 AM - 10 Sep 2017

2,932 Retweets 8,810 Likes



201



2.9K

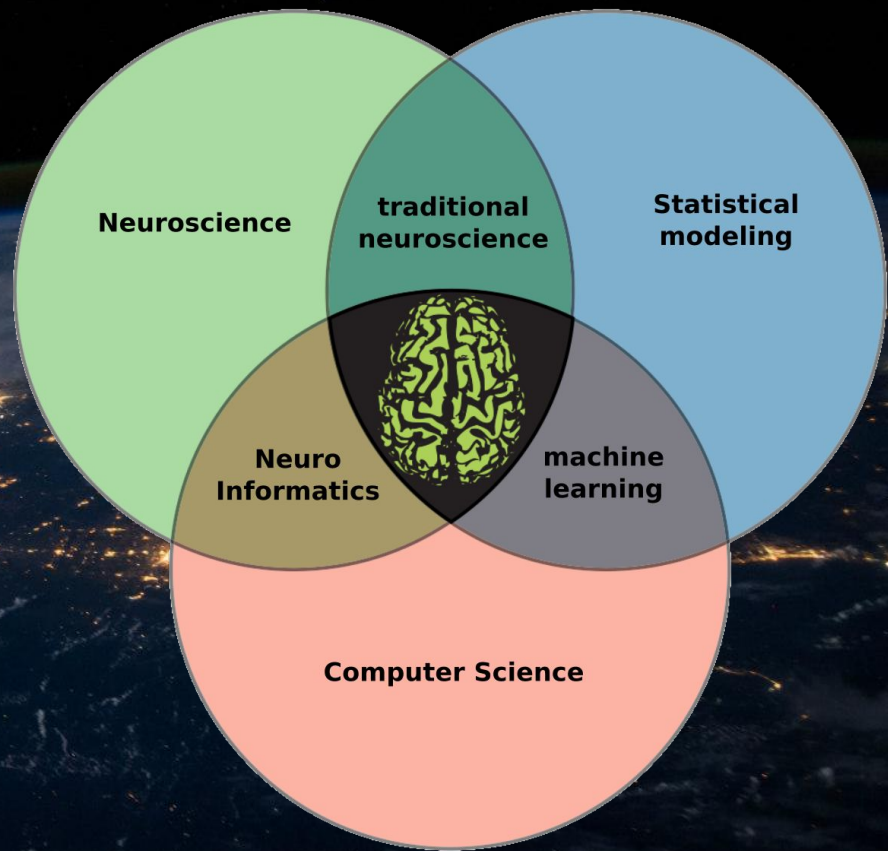


8.8K





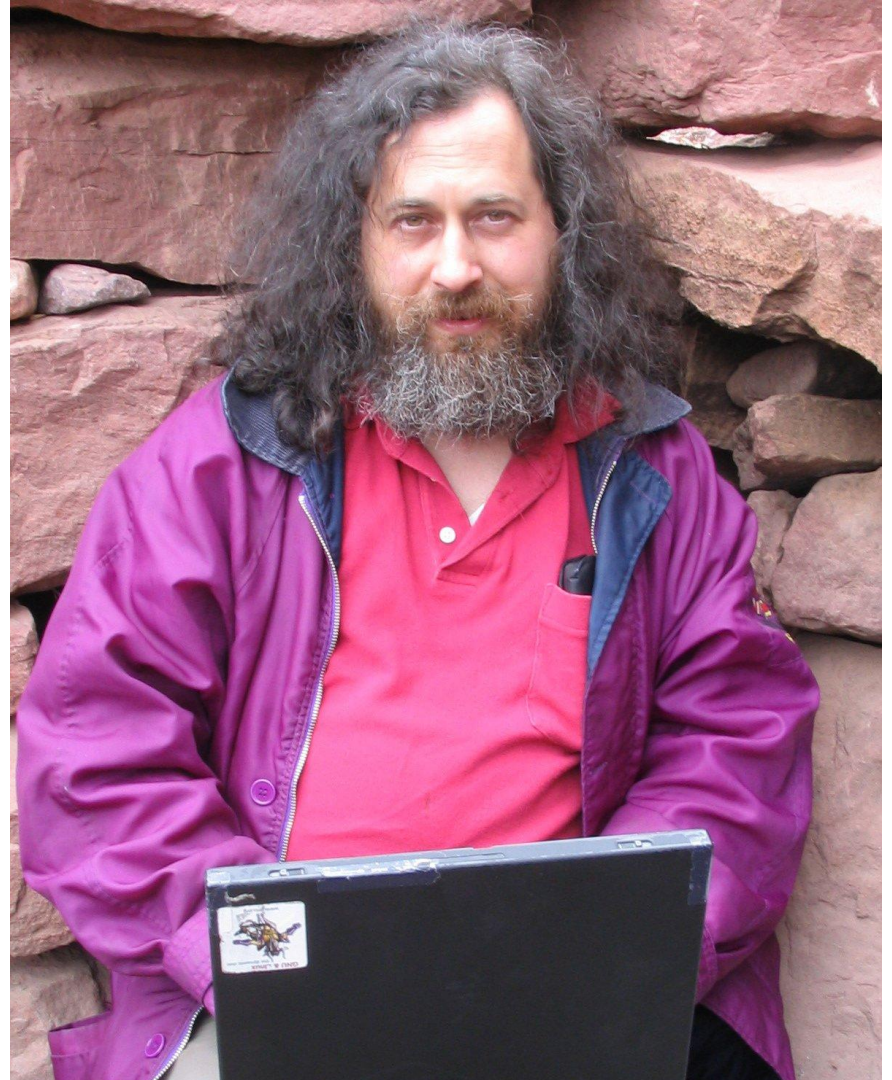
# Neural data science



“Being a hacker means  
appreciating playful  
cleverness”

“Sharing is good and,  
with digital technology,  
sharing is easy”

Richard Stallman



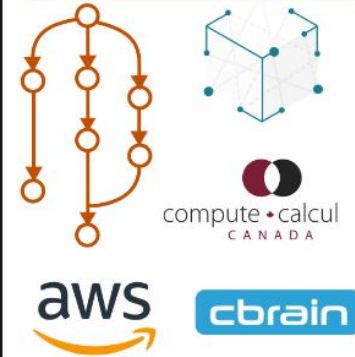
## OPEN DATA



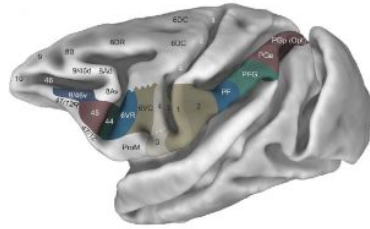
## OPEN CODE



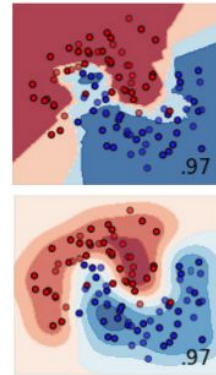
## HIGH-PERFORMANCE COMPUTING AND PIPELINES



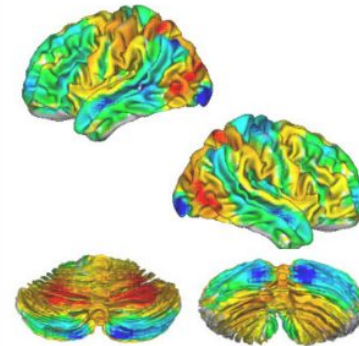
## DATA VISUALIZATION



## MACHINE LEARNING



## NEUROIMAGING





# Week 1: A foundational stack for neural data science



# Week 2: Project Definition





# Week 3: Project Implementation



# Week 4: Project Wrap-up





# Evaluation

- Week 1: coding quizz (10%)
- Week 2: project description (10%)
- Week 3: data visualization presentation (10%)
- Week 4: wrap up project presentation (28%)
- June 12th: project deliverables are due (30%)
- Overall participation (12%, 3% per week)





## Connect...



brainhack-school2020.sl  
ack.com



#brainhackschool



[https://github.com/brain  
hack-school2020](https://github.com/brainhack-school2020)

Have fun! Help us create an open and enthusiastic space!  
<https://school.brainhackmtl.org/coc/>



Université   
de Montréal



 Concordia University  
**Engineering and  
Computer Science**



Institut et hôpital neurologiques de Montréal  
Montreal Neurological Institute and Hospital

 Centre de recherche  
**iugm**  
Institut universitaire  
de gériatrie de Montréal

**UNF** Unité de  
neuroimagerie  
fonctionnelle



**UNIQUE**

Happy hacking!

