

Brain and Body Lab

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Chapter 1

Introduction

Welcome to the BABLab Wiki!

In the Brain and Body Lab we are interested in how early experiences influence interactions between the brain and body, contributing to mental and physical health. We hope to use this information to improve the wellbeing of children, adolescents, and adults across the world. In other words, in the BABLab, we aim to do good science that makes a difference to people's lives, today and tomorrow.

The BABLab is directed by Dr. Bridget Callaghan, Assistant Professor of Psychology at UCLA.

Current Projects:

- Mind, Brain, Body (MBB)
- Parenting Under Pressure (PUP)
- Inside Out
- Transfer Mental Health

1.1 Finding the Lab

We're located in the Psychology Department at UCLA! 5581 Pritzker Hall This is in the tower building, 5th floor.

1.2 Contact Info

If you have any questions about the lab please contact the lab's managers.

Emily Towner - emilytowner@ucla.edu. Kristen Chu - kristenchu@g.ucla.edu

Alternatively, you can reach out to our lab email, bablab.ucla@gmail.com

1.3 Other Information

Feel free to contribute any relevant sections or information - best lunch spots on campus, tips and tricks, or anything else helpful to your fellow lab members!

Chapter 2

Onboarding

2.1 First Steps

If you are a new member of the BAB Lab, there are a few basic things you will want to set up before or on your first day.

Here are some tips:

1. Read the Lab Manual
 2. Ask the lab manager to be added to the following
 - Slack (download the desktop and mobile apps)
 - Trello (download the desktop and mobile apps - watch this tutorial)
 - Box
 - Google calendars
 - Email list
 - Dropbox Paper
 3. Send (via Slack) the lab manager your information including your
 - Preferred name
 - Preferred email
 - Phone number
 - Photo
 - Brief bio for the lab website
 4. Complete the onboarding process for your position below
-

2.2 Onboarding - Staff Research Associate

1. Submit to Bridget
 - Signed employment contract
2. Contact HR
 - Human Resources Coordinator
 - 1283A Franz Hall
 - (310) 206-9720
3. Submit to HR
 - Union overtime/comp form
 - Personal data form
 - Background check authorization form
4. Schedule with HR
 - Background check phone call
 - Hiring meeting
 - Bring employment verification documents to meeting (i.e. passport)
 - Sign state oath of allegiance/patent policy/patent acknowledgment (in person)
5. Pick-up
 - Location: Psychology Main Office (1285 Psychology Building – See Tyler Tuione)
 - Parking permits
6. Respond
 - To the tracker I-9 email on or before your first day of work
7. Create (once you have your employee ID)
 - Create a UCLA logon ID
 - Create a UCPATH account (payroll, benefits, etc.)
 - Create an At Your Service Online (AYSO) account (retirement)
8. Visit (once you have your employee ID)
 - Location: UCLA BruinCard Center (Kerckhoff Hall, Room 123)
 - Bring ID and completed form
9. Complete (once you have your UCLA logon ID)
 - Sign-up and complete the required employee training courses
 - Sign-up and attend orientation
 - Upload orientation training certificates to Box (BABLAB/Lab/Training)
10. Select
 - Health insurance plan (within 30 days) Retirement plan (within 90 days) Union membership requires pension plan
11. Pritzker Access
 - Email Tyler Tuione – tuione@psych.ucla.edu
 - Include your name and BruinCard # to be granted weekend swipe card access as well as B and C level access for freezer storage
 - The swipe access reader is located on the right hand side of door to the right courtyard of the tower entrance.
12. IRB Trainings
 - Create a UCLA SSO for CITI Program

- Add and complete the following courses:
 - Human Research – Social & Behavioral Researchers & Staff
 - Human Research- Biomedical Researchers & Staff
 - UCLA HIPAA
- Add certificates to the training folder on Box (BABLAB/Lab/Training)
- Get a WebIRB account
 - Email your faculty sponsor/advisor the following information:
 - * Your UCLA Logon ID – (Verify your UCLA Logon ID)
 - * Your UCLA UID # (9-digit)
 - * Your full name
 - First
 - Middle
 - Last
 - * Your email address
 - * Your department and division
 - Bridget to email this information to webIRBHelp@research.ucla.edu to request the account.
 - Ask the lab manager to be added to all IRB protocols

13. IBC Trainings

- Sign up for the following courses via UCLA WorkSafe
 - NIH Guidelines for UCLA Researchers IBC Compliance Training (online)
 - Laboratory Safety Fundamentals (online)
 - Blood-borne Pathogens Training (online)
 - Medical Waste Management (online)
 - Biosafety ABC's – Biosafety Level 2 Training (in-person)
 - Biosafety Cabinet (online)
- Add certificates to your user folder on Box (BABLAB/Lab/Training)
- Record completion for HPL
- Submit certificates to Arielle Radin (radina02@g.ucla.edu) at HPL
- Read the Lab Specific Biosafety Manual and sign off
- Complete Lab Specific Training and sign off
 - This must be updated annually
- Get vaccinations (suggested)
 - Visit OHF at 67-120 CHS x56771
 - Recommended vaccines
 - * Hepatitis B
 - * Flu (Influenza)
 - * MMR (Measles, Mumps & Rubella)
 - * Varicella (Chickenpox)
 - * Tdap (Tetanus, Diphtheria, Pertussis)
 - * Meningococcal

14. REDCap

- Complete and send REDCap access form to Martin Lai (mylai@mednet.ucla.edu) (BABLAB/Lab/Lab_protocols/REDCap/Access/Template/)

15. Website admin access

- Contact Jun Wan (jwan@psych.ucla.edu) for access to the life sciences Wordpress multisite server
- 16. MRI Trainings
 - TBD
- 17. Department of Psychology Printing Access
 - Login (upper right hand corner)
 - Click submit a request
 - Inquire about gaining printer access- include your UID number and email
 - Access printing at Franz Hall
 - Instructions - sending print jobs via email
- 18. Departmental Email Distributions

Important links:

- UCLA time reporting system

Review:

- Getting started at UCLA
- Welcome Kit
- How-to access UCPATH portal
- Workers' Comp Pamphlet
- When an injury occurs
- Substance Abuse Brochure

2.3 Onboarding - Volunteer Research Assistant

1. Website
 - Please send us your preferred name, photo, and a brief bio for the lab website
2. IRB Trainings- IMPORTANT
 - No one can access our Box or data until all IRB trainings are complete!
 - Create a UCLA SSO for CITI Program or login through UCLA
 - Add and complete the following courses:
 - UCLA HIPAA
 - Human Research - Social & Behavioral Researchers & Staff
 - Human Research - Biomedical Researchers & Staff
 - Slack message these certificates to the lab manager
 - Ask to be added to any relevant IRB protocols
3. Accessing Trello
 - Trello is our task management software!
 - Download the desktop and mobile apps
 - Please watch this tutorial

4. HR Requirements (not necessary for UCLA students)
 - Please print, read, and complete the forms located in the Drop-box/BAB/Lab/Lab_protocols/RA_hiring/Forms
 - Each form **MUST** be completed thoroughly. Some persons omit information such as social security information, but if any area is left vacant, we cannot accept the forms and the volunteer will not be able to work on the UCLA campus. There must be a clear start date and a clear end date. The majority of the forms are filled out by the volunteer, but there are a few areas where the UCLA professor whose lab is overseeing the volunteer must sign and date as well.
 - The volunteer may not work on the UCLA campus until all forms are filled out, signed, and submitted back to HR.
5. Franz Access
 - Email the lab manager to request weekend access if you will be running participants on the evenings/weekends
 - Student volunteers: Include your name and Bruincard #
 - Non-student volunteers: We will determine if you are eligible for an access card.
 - The swipe access reader is located on the right hand side of door to the right courtyard of the tower entrance.
6. BMC Requirements
 - TBD

2.4 Onboarding - Postdoctoral Scholar

2.5 Onboarding - Graduate Student

Chapter 3

Lab Protocols

3.1 Meetings and Training

3.1.1 Lab Meetings

We are happy to have a range of students join us for weekly lab meeting, whether you are an official member of the lab, or are just visiting – we want a diversity of perspectives in the lab, so join in and make your voice heard.

You might be wondering why we need a protocol for a lab meeting? The answer is simple – to make the meetings as time efficient, cohesive, and productive as possible. To achieve that goal, we follow a structured template for weekly lab meetings:

3.1.1.1 Meeting Blocks

The first layer to the lab meeting structure is to have ‘Meeting Blocks’ which focus the content of our lab meetings for set periods of time (typically 3-5 weeks) on a particular topic. The topics of the Meeting Blocks are decided as a group and will be chosen for strategic purposes (e.g., if we are writing a grant or paper on a particular topic area we might assign a meeting block to that topic, likewise – if we are exploring measures for a new study, we could assign a meeting block to searching for a range of measures and deciding on the best available). You can find a list of potential Meeting Block topics at the end of this document. If there is a topic of high general interest to the lab, we can also schedule a meeting block on it (even if we don’t directly research that topic). At the end of each meeting block we will discuss the next block assignment as a group. If

you have an idea for a meeting block, feel free to bring it up at the end of the current block (and add it to the list in this bookdown project).

3.1.1.2 Syllabus Development

The first step in a meeting block will be to develop a syllabus for the coming weeks. The syllabus can either be worked on as a group (e.g., in the first meeting of a new block), or one person can be in charge of developing the syllabus.

Roles & Responsibilities

Select a sub-topic or research question for each meeting within the block. Select a set of readings/material (can be movie clips, podcasts etc.) to go through each week (keep in mind that people have limited time to review the material for lab meeting so assign one primary reading/material and place additional materials into a supplement, in case people wish to review further). Make a document for the meeting and share it with all meeting attendees. Make sure that people are signed up to lead each meeting in the block. Be in charge of sending reminders for the meetings in the block. Make any meeting notes at the end of each meeting, and make sure the paper doc is up to date at the close of the meeting. Make a post on the BABLab twitter for each meeting so people know what we are talking and thinking about.

3.1.1.3 Meeting Leaders

Each meeting will be assigned a meeting leader. The leader is the person who has chosen or been assigned the primary reading or media material for that week.

Roles and Responsibilities

Read/watch/listen to the media assigned for that week in detail. Think about themes that can be brought up in the lab meeting to discuss as a group. Be ready to facilitate the meeting and stimulate conversation. Keep the meeting on track (practice those assertive conversation steering techniques!). The meeting leader does NOT need to make slides, prepare food, or do anything else beyond the roles and responsibilities outlined above.

3.1.1.4 Meeting Attendee

It is not always possible to read/watch/listen to the media for every lab meeting in detail. That is why we assign one person (the meeting leader) to do a deep dive into the material each week. While a deep dive is not necessary, all meeting attendees are expected to be familiar with the media and topic of conversation each week so that they may contribute meaningfully to discussions.

Roles and Responsibilities

Familiarize yourself with the media being presented that week. If you have time, do a deep dive too. Be thoughtful in the lab meetings and try to make

constructive comments. If you come across additional material that you think would be good to include in the lab meeting supplement, add it into the paper doc (on Dropbox). Try to connect the discussions in lab meeting with the past meetings in the current meeting block, as well as with discussions in past blocks.

3.1.1.5 Potential Lab Meeting Block Topics

(in no particular order)

- Sensitive periods in learning and memory
 - Mind Brain Body Study: Questionnaires
 - Role of the hippocampus in learning and memory across development
 - Nutritional Psychiatry
 - Nutrition and cognitive development
 - How does early adversity or lifetime stress affect the microbiome?
 - Bottom up: microbiome influences on brain and behavior
 - Top down: brain and behavioral influences on microbiome
 - Mind Brain Body Study: In lab task review
 - Multivariate analytical techniques in fMRI
 - Microbiome methods
 - Electrogastrograph – what do we know about the signal?
 - Heart Rate Variability and early life stress
 - Integrating physiological measures to enrich our understanding of behavior
 - Kind of crazy ideas, but wouldn't it be cool if they worked session.
 - Research group highlight - we pick a research group (or even a general research topic) and review the body of work they engage in, or in the case of the research topic, who the big research groups in the field are.
-

3.1.2 Trainee Tuesdays & Thursdays

In order to encourage “deep work” time, we are implementing *Trainee Tuesdays and Thursdays*!

All trainings, meetings, questions/concerns that will take longer than 10 minutes (unless URGENT) should be scheduled on Tuesdays and Thursdays if possible.

Please feel free to schedule a meeting if you'd like to discuss your research/work more deeply or learn a new skill.

If you are simply having an issue with an assignment, before you schedule a meeting with a lab manager we ask that you try the following steps in this order:

1. Check the OSF protocol - there might be step-by-step instructions for your issue in the BABLab OSF or study specific OSF protocols
2. Watch a training video - if one exists for the issue/task at hand
3. Consult a fellow RA - they may know what to do

4. Consult a senior RA
5. Make a list of notes in your RA notebook about the problems you are having and present them for discussion at Thursday's RA meeting
6. Finally, schedule a one-on-one meeting with Emily or Kristen

To do so, please create an event on the BABLab calendar.

Please create this event on the blue BABLab calendar using the template below during a time the lab manager is free. Invite yourself and the lab manager you'd like to meet with!

Title: Meeting - "Meeting topic" Description: "Brief meeting description"
Guests: Individuals invited to the meeting

Example:

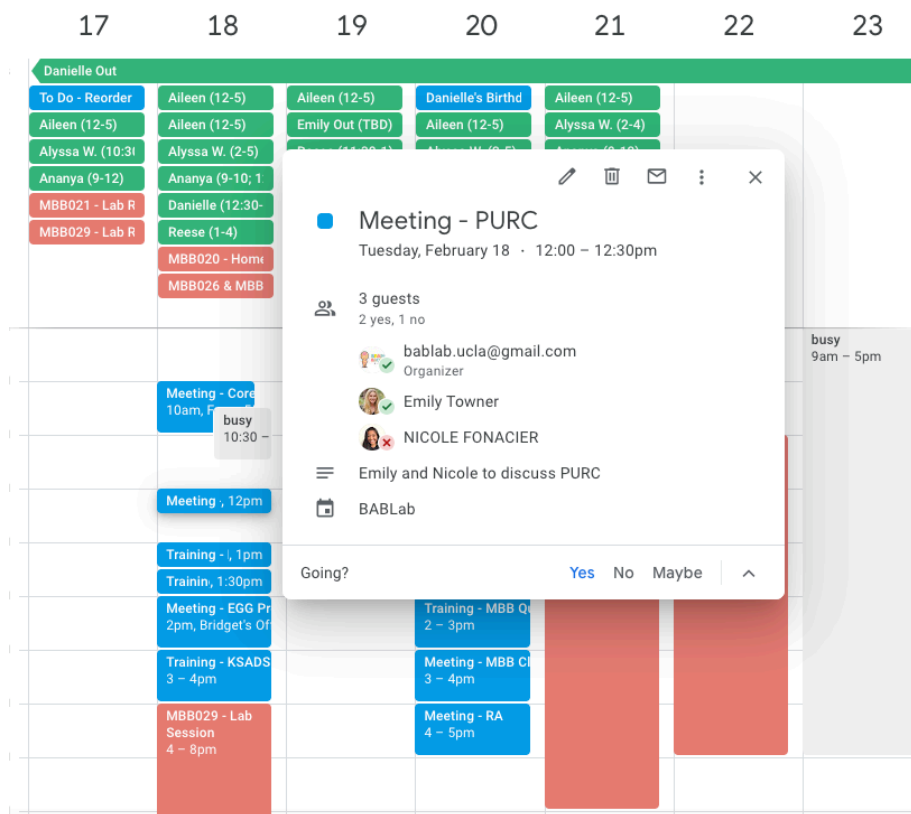


Figure 3.1:

I (Emily) have also shared my personal calendar with the BABLab account, so you can see when I am available to meet with you. You can access it by selecting "Emily Towner" from "Other calendars" in the BABLab calendar. The off-white

“busy” slots are times I am unavailable (doctor’s appointments, non lab-related meetings etc.).

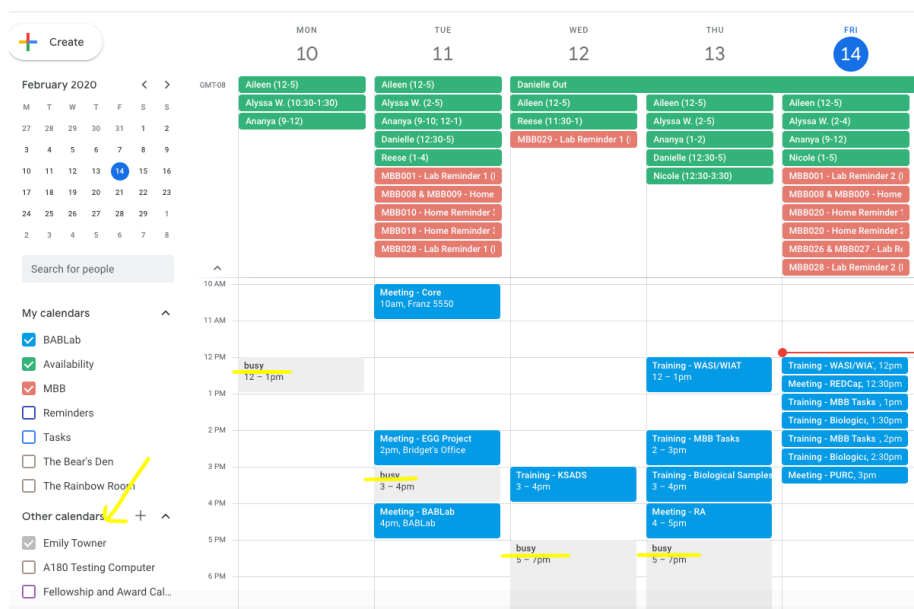


Figure 3.2:

3.1.3 Clinical Meetings

Purpose

The purpose of clinical meetings are to discuss and review ongoing clinical interviews (KSADs), troubleshoot any recent difficulties, and learn helpful interviewing tactics for future clinical interviews. During the meeting, you will present the team with background information from your clinical interview and walk through each supplement.

What To Prepare

Using a shared Dropbox Paper document, please prepare the following:

- Who you are presenting
 - Participant’s KSADS file
 - Date/time of session
- Brief background
 - Was the child bio/adopted?
 - * Age of adoption
 - Was there any prenatal exposure?

- Any trouble in school?
- Supplements
 - Your thought process on why/why not you went through each supplements/diagnoses you have assigned
- Personal opinions
 - What was the child participant like in the session? (note relevant behaviors for context)
- WASI/WIAT
 - A quick overview of the participant's WASI/WIAT (admission and scores)
- Questions for the team
 - Any situations you feel may have been difficult to address during the clinical interview

These meetings are also a safe space to debrief potentially difficult interviews.

3.2 Mail

3.2.1 USPS

When sending things out USPS, you can place your recharge ID under the sender's address, circle it, & drop it in the outgoing mail bin in 1282 (faculty mailroom)

3.3 Recycling & Waste

We can leave small items outside our door for recycling/trash pickup. For large items we should bring them to the A-level loading dock to be recycled.

3.4 Purchasing

3.4.1 PAC Orders

PAC forms are used for most purchasing requests (besides Amazon which we can order from directly with our Amazon business account). Please consult the

UCLA preferred vendors list first before submitting a PAC form for an outside vendor.

- Save any quote to (BABLAB/Lab/Finances/Purchasing/)
 - Check Trello purchasing board for existing item
 - If no existing item, create one and add description based on templates
 - Fill out blank PAC form located in (BABLAB/Lab/Lab_protocols/Finances/Purchasing/)
 - Save to (BABLAB/Lab/Finances/Purchasing)
 - Email the completed PAC order form to psych-orders@psych.ucla.edu
 - **Subject** - CB, [Fill in Vendor] Request, Bridget Callaghan
 - CC' Bridget (bcallaghan@ucla.edu) - do not need signature if PI is cc'd
 - Complete item order information on Trello purchasing board
 - Save PO (purchase order) and CONF (confirmation) if received
 - Once item is received lab manager log amount in funds spreadsheet
 - Add in any tax/shipping/expense that wasn't accounted for on Trello to most expensive item
 - Mark as "Logged" on Trello
-

3.4.2 Amazon Orders

Instructions for checking out via our Amazon Business Account.

- Check for existing item on Trello
- If existing item, move to "To Order" list, change label to not logged, and create new instance of purchase in description box
- To checkout via Amazon, Choose a Group
 - Upon clicking "Proceed to Checkout" you will arrive to the screen below. Select your fund manager's group and click continue:
 - Be sure to select the correct group to avoid your order being rejected or sitting in a queue that is not being reviewed. In the event that your fund manager is out of the office, please check with the Business Office before starting your Amazon Business order so that we can add you to another group temporarily. Otherwise, the order will remain in your fund manager's queue until they are back in the office and able to approve orders.
- Business Order Information
 - Enter the Full Accounting Unit (FAU) or Recharge ID in the Purchase Order (PO) Number field and enter a business justification in the Comments for Approver field. These fields are required for the Psychology Department. If this information is not provided, your fund manager will reject the order.
 - NOTE: Business justifications must describe the purpose of items being purchased, how and where the items will be used. Please be sure to be as detailed and specific as possible. If you are purchasing

an item flagged as restricted your fund manager may reach out to you for additional information.

- Restricted items are not necessarily unallowable, but may require additional levels of approval from the Pcard Administrator in Purchasing before we can charge it to a Pcard.
 - Next, select the appropriate shipping address
 - Next, you will select the method of payment. This should be a VISA with your fund manager's name on the card. You do not have the option to edit this page and it is not necessary to include a reference number. Click continue.
 - Review your order details and once confirmed, click on submit order for approval.
 - Complete item order information on Trello and move to "Submitted" list
 - Once placed, move item to "Placed" list on Trello
 - Once item is received, lab manager to log amount in funds spreadsheet
 - Add in any tax/shipping/expense that wasn't accounted for on Trello to most expensive item
 - Mark as "Logged" on Trello
-

3.4.3 Reimbursement

For reimbursement:

- Fill out a blank reimbursement form found in (BABLAB/Lab/Lab_protocols/Finances/Reimbursement)
 - Save reimbursement form to (BABLAB/Lab/Finances/Reimbursement)
 - Email the completed reimbursement form to psych-orders@psych.ucla.edu
 - Subject - CB, [Fill in Vendor] Reimbursement, Bridget Callaghan
 - CC' Bridget (bcallaghan@ucla.edu) - do not need signature if PI is cc'd
 - Lab manager log reimbursement amount in funds spreadsheet
-

3.4.4 Guest Parking Passes

- Email Tyler Tuione (tuione@psych.ucla.edu) saying you would like to purchase guest parking passes.
- Information to include in this email:
 - Number of passes to order
 - Recharge ID for fund to charge
- Wait for Parking Services to call the lab (about a week), record the confirmation code they give you.
- Pick up the passes with the confirmation code at 555 Westwood Plaza, Suite 100.

3.4.5 Petty Cash

- Fill out a blank IRB research payment request form (for cash or card)(BABLAB/Lab/Lab_protocols/Finances/Petty_cash/)
 - Send it to Brian Hoang (brianhoang@psych.ucla.edu) for a signature
 - Submit the form at this site
 - It can take up to 10 business days for them to reply back.
 - When they recontact with a delivery time, ensure that either of the people who signed the form (Bridget and an RA) are in the lab at the time of delivery to sign off on the order.
 - They will not deliver the cash if one of the signers is not present
 - Once the disbursement is received, log it on the study specific payment log
 - Ask the lab manager to log the pettycash amount in the funds spreadsheet
-

3.4.6 Vendor specific protocols

Some vendors have special requirements or instructions to make purchases from them.

Biopac - Email aimeew@biopac.com and frontdesk@biopac.com

Uprinting

- Go to Uprinting.com and log in.
 - Select the items you want to purchase and add them to the cart.
 - Note that you need to have the pdf or image files on-hand and make sure they match the dimensions of what they will be printed on
 - When checking out, select “Terms” as the payment method
 - Create and submit a PAC form to purchasing as usual, but also cc’ jhoan.e@digitalroominc.com and request that purchasing get in touch with her to pay for the order
-

3.4.7 Logging purchases on Trello

1. Go to the “Purchasing” board on Trello. It should be green. There are different tabs:
 - **To Return:** items that will be returned
 - **Maybe:** items that may be bought
 - **To Order:** items to order/ buy
 - **Submitted:** orders that have been submitted
 - **Placed:** orders that have been placed

- **In Stock:** items that have arrived and are in lab
2. Add a card to “To Order” - name it with this format: **item being bought - \$price**
 3. Add the following labels:
 - **Budget: Nonlogged** (always log this by default)
 - **Fund** (ask lab manager whether it’s Startup, R00, or other fund)
 - **Category** (ask lab manager which category)
 4. Add the link of the item on ‘add an attachment’. Rename the link the exact name of the item as written on Amazon (or whatever website).
 5. Add a description with this format:
 - Units: (insert amount of item, ex. 20 pencils)
 - Orders: (insert how many orders placed, ex. 1 order of 20 pencils)
 - Date submitted: (insert date we submitted order)
 - Date placed: (insert date vendor has placed order)
 - Date received: (insert date we got it in lab)
 - If the card is something that may run out eventually (ex. granola bars, notebooks) add an approximate due date.
 6. Whenever an item has been submitted, placed, and in stock, move the card into its respective tab.

Watch the video for a detailed explanation.

3.5 Technology

3.5.1 Slack

If you haven’t already found this out for yourself, emails are a clunky way of communicating for most lab needs. Moreover, most people will find that they have a backlog of emails awaiting their attention. For this reason, we will use Slack for the primary means of lab communication.

The beauty of Slack is that you only subscribe to the channels that concern you. For messages to one person or a small group, use direct messages. If you have to include out-of-lab recipients, use e-mail. If you have a paper you want to share, download it and then upload it to Slack in the #papers channel.

Full-time lab members should install Slack on their computers and/or phones and check it regularly (during working hours). Part-time lab members should also check Slack when they are working in the lab as there may be important messages in there for them.

Of course, if there is an emergency, and you need to contact Bridget, use her email or phone or drop into her office.

Slack Channel	Type	Purpose
#bablab_core	Private	For private communication between the core team - this includes the PI, Lab Managers, Postdocs, and Grad Students
#bablab_ra	Private	For private communication between the lab managers and all the research assistants
#bablab_senior	Private	For private communication between the lab managers and the senior research assistants
#general	Public	For lab-wide communication and announcements
#meetings_lab	Public	For notes or communication related to lab meetings
#methods_fmri	Public	Sharing wisdom on fMRI data collection / analysis or asking (and answering) the fMRI questions of others
#methods_mb	Public	Sharing wisdom on microbiome data collection / analysis or asking and answering the microbiome questions of others
#notes_conferences	Public	For taking notes at conferences
#papers	Public	Sharing links to lab-relevant papers and discussing them
#random	Public	Non-work-related chatting – e.g., pics of pets, funny cartoons etc.
#recruitment	Public	Any ideas you have for recruiting youth into our study
#stats	Public	To ask and answer questions about statistical analyses
#study_egg_emb	Private	To discuss issues related to the EGG and Emotionality study
#study_mbb	Private	To discuss issues related to the Mind, Brain, Body study
#study_transfer	Private	To discuss issues related to the Transfer Mental Health Study
#tips_coding	Public	Sharing wisdom on code writing or asking (and answering) the coding questions of others

3.5.2 Box

We have moved over to Box for our file storage service. This works very similarly to Google Drive or Dropbox, but is more secure. Additionally, each lab member can have their own account, it's free and great for collaboration!

Please download Box Drive to use.

1. Click download for your operating system

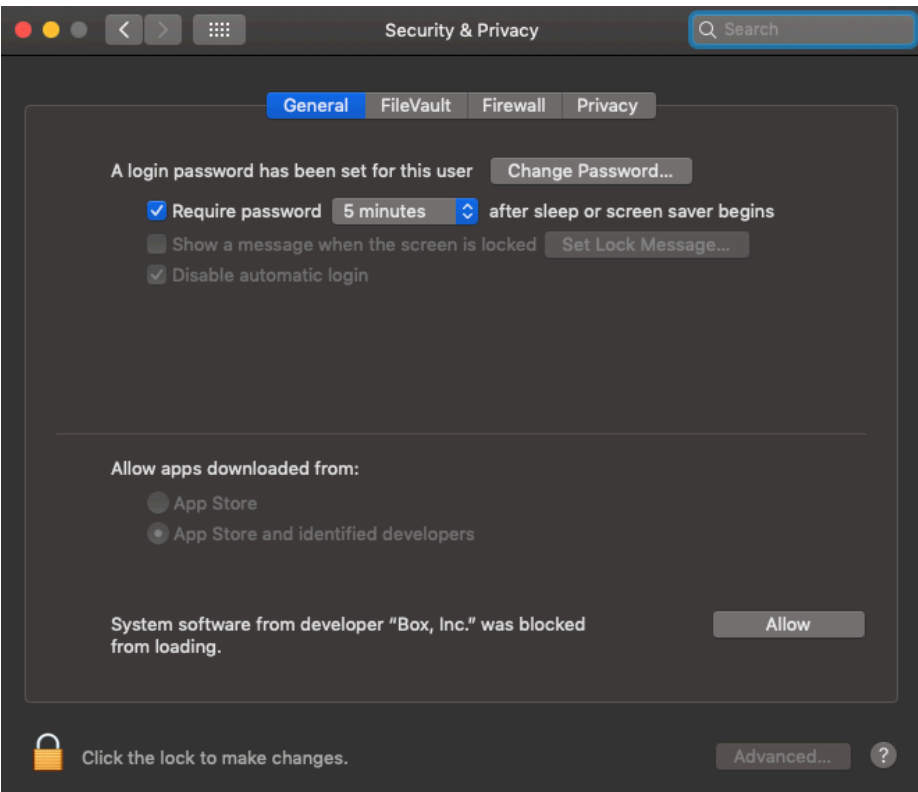


Figure 3.4:

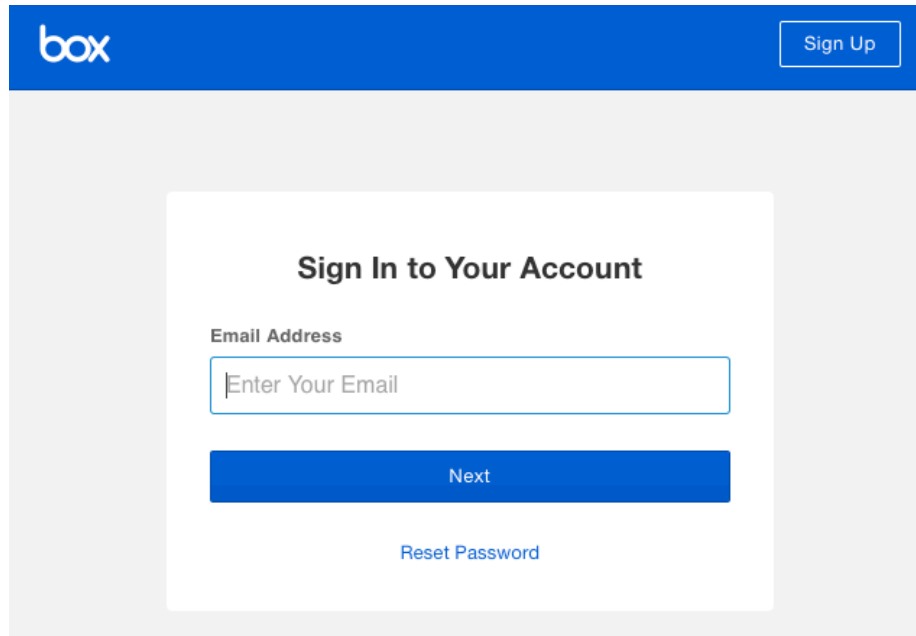


Figure 3.5:

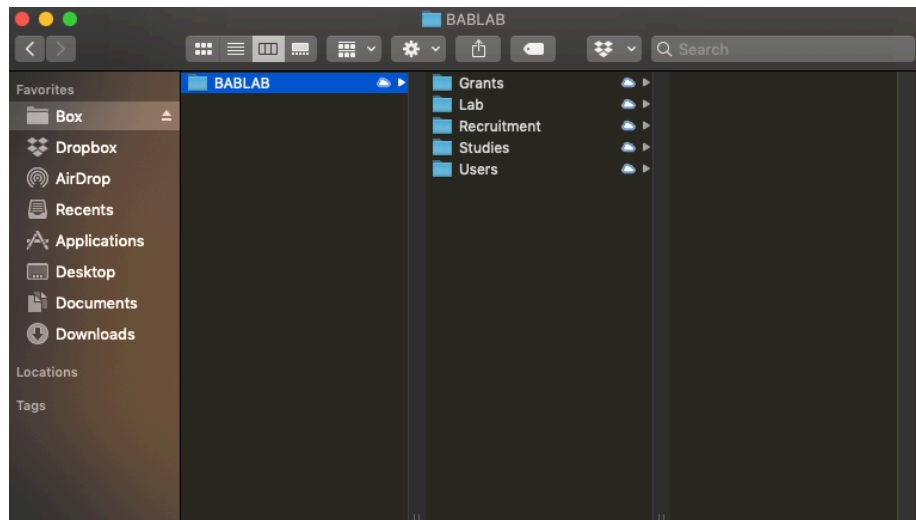


Figure 3.6:

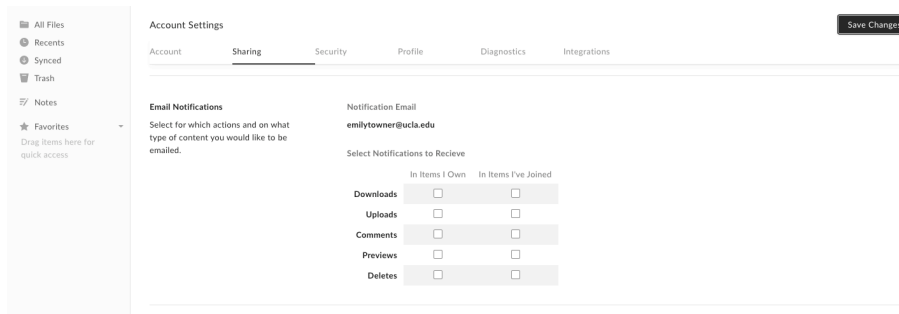


Figure 3.7:

- You can add members, labels (useful for studies), checklist, attachment, due date and more to the back of the card. This information will show when you click on the card.
- 3. **Show Menu function:** This is a great way to search specific items, such as your own name for tasks, or the study for which there are tasks for, or tasks which have upcoming due dates.

3.5.4 Server

In addition to Box, we make regular biweekly backups to a dedicated psychology department server (in addition to two external drives)

To connect to the CallaghanLab server:

*Contact the lab manager first to set up your credentials.

On a Mac –

- From the dropdown menu under “Go”, select “Connect to Server...” (Apple + K)
- Enter the network/server address: `smb://pythia.psych.ucla.edu/Users/CallaghanLab/`
- Click on “Connect”.
- A dialogue box will prompt you for your credentials. Enter your credentials obtained from Psychology IT and click on “OK”.
- If everything was entered correctly from above, the mapped drive will appear under “Shared” in the Mac’s Finder.

On a PC –

- From the Windows file explorer, right mouse click on “Computer” for Windows 7 or “This PC” on Windows 8/10.
- Select “Map network drive”.
- Specify an available “Drive” letter from the dropdown menu.

- Enter the network/server location for the “Folder” field and click on “Finish”.
 - Network/server location: `\\pythia.psych.ucla.edu\Users\CallaghanLab\`
- Enter your username and password that was provided by Psychology IT in the “network credentials” popup dialogue box and click on OK.
- If everything was entered correctly from above, the mapped drive will appear under “Network locations” when you click on “Computer/This PC”.
- After the drive has been mapped, logged out of Windows to “logout” from the network drive.
- Don’t right mouse click on the mapped drive and select “Disconnect”. This will only unmap the network drive and you will have to go through the process all over again.

To connect off-campus connect to the UCLA/BOL VPN and let it run in the background prior to logging into the mapped drive you had configured on your computer.

How-to download/install the Cisco VPN client.

Every night the server is backed up to the Life Sciences data center in Hershey Hall. That’s always been the case. To make those nightly backups more safe, there is another copy of the backups stored offsite (i.e. to prevent losing both the server AND the backups in a fire, earthquake, etc.)

Once we have Shadow Copy enabled, we’ll also have more direct access to backups, so we won’t need to work with Life Sciences to retrieve backups. Psych IT will be able to grab a recent copy of your files/folders ourselves. We’ll also have access to incremental backups (i.e. yesterday’s copy, two day old copy, three day old copy...up to two weeks back).

So at that point we’ll have 3 forms of backup, and plenty of safety net.

- Dave (Psych IT)
-

3.5.5 Dropbox Paper

The lab has a shared Dropbox Paper account — which is slightly different than regular Dropbox file storage. On the Dropbox Paper, we will place collaborative documents. We will grant you access permission to various folders in the Dropbox Paper account, You may need to initialize an account with the email we grant access permission.

3.5.6 GitHub

The lab's GitHub should be used to share code and data with people outside of the lab (i.e., people not on our IRB). Not all data can be shared (because of IRB restrictions) and not all data that can be shared should be shared immediately. Speak with Bridget about when to share data, and what needs to be done to the data (e.g., the level of de-identification required) before we share it. Ask the lab manager to get access to the lab's GitHub.

Our lab manual, lab wiki, and study wikis are also hosted on our GitHub.

3.5.7 Google Calendars

The lab has many Google calendars and you should subscribe to those that make sense for your unique situation.

1. **BABLab:** Used for lab meetings, out of schedule meetings, birthdays, formal lab events etc.
2. **Availability:** If you are part time, please place the hours you plan to come into the lab on this calendar. If you are going to be away, please place the dates and times on this calendar. This is critical as the lab manager will use this information when scheduling people to run participants for our studies. Bridget and the core team will also put her out of office times on this calendar to help people with scheduling.
3. **MBB:** Used for booking sessions and reminders for the Mind, Brain, Body study
4. **The Bear's Den:** used to reserve time in experimental room 1
5. **The Rainbow Room:** used to reserve time in experimental room 2
6. **A180 Testing Computer:** the SAND Lab room that can be used for blood spots
7. **HPL1333:** The Health Psychology Lab room that can be used for blood spots

3.5.8 E-mail

We have an email listserv for communicating with the whole lab and individuals who subscribe to our list - including visitors and students from other labs who attend our meetings, visiting scholars, etc.

The email is: **bablab@googlegroups.com**

If you are thinking about joining the lab and would like to be notified about upcoming lab meetings, please request to join the listserv.

There is also a lab email account which people use to contact the lab to participate in studies (bablab.ucla@gmail.com). This email account will be staffed by the lab manager/s and they will sort the emails in specific folders within the Gmail account. If you are running a study, it is your responsibility to check your study's folder on the lab Gmail every few days and respond to participant inquiries in the "potential" participants folder in relation to your study.

3.5.9 Mac OS - Catalina

If you upgrade your Mac operating system to Catalina, and wish to run tasks on PsychoPy, you must enable the following settings in the image below.

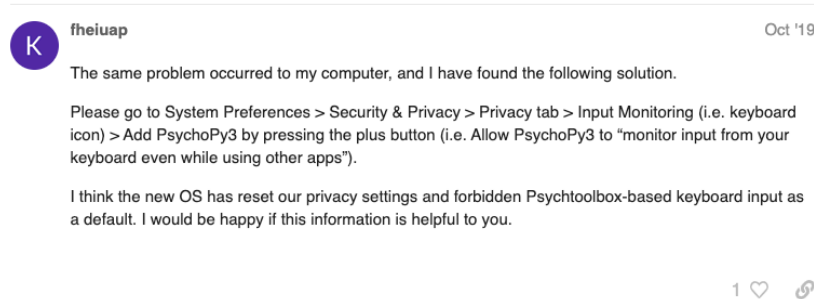


Figure 3.8:

3.5.10 REDCap

3.5.10.1 Entering Instruments

3.5.11 Using the test logic feature

You can use the test logic with a record feature to see if this question will be shown for a specific participant

3.5.12 R

To install R:

- Go to R Project
- Click the "download R" link in the middle of the page under "Getting Started"

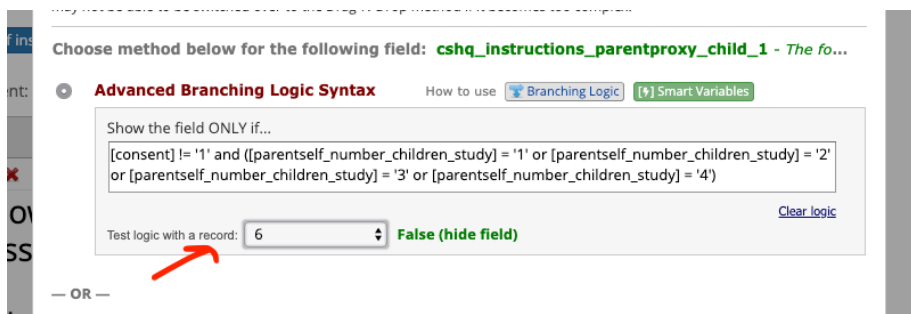


Figure 3.9:

- Select a CRAN location (a mirror site) and click the corresponding link
- Click on the “Download R for (Mac) OS X” link at the top of the page
- Click on the file containing the latest version of R under “Files”
- Save the .pkg file, double-click it to open, and follow the installation instructions

3.5.13 RStudio

To install RStudio:

- Go to RStudio and click on the “Download RStudio” button
- Click on “Download RStudio Desktop”
- Click on the version recommended for your system, or the latest Mac version, save the .dmg file on your computer, double-click it to open, and then drag and drop it to your applications folder

3.5.14 Python

To install Python:

- Download the Anaconda Distribution
- Be sure that you download the Python 3.7 version. (Note, this can take upwards of 1-2 hours depending on your internet connection)
- Helpful instructions for these checks can be found on the Anaconda User Guide website: “Getting Started”
- Any issues are most likely due to incorrect installation, which is addressed in the FAQ page

3.5.15 VPN to Lab Computers

We have set up a VPN on the mac mini in the Bear Den (on the left side of the room). Because this computer has the Acknowledge software installed on it, and has the USB Key for that program you need to use that computer for processing any physiology data. If you are off campus, you can VPN to the computer using the following steps. NB: you will need to have downloaded Cisco Anyconnect - you can access that by clicking [here](#)

Step 1. Open Cisco and type 'ssl.vpn.ucla.edu' and press 'connect'

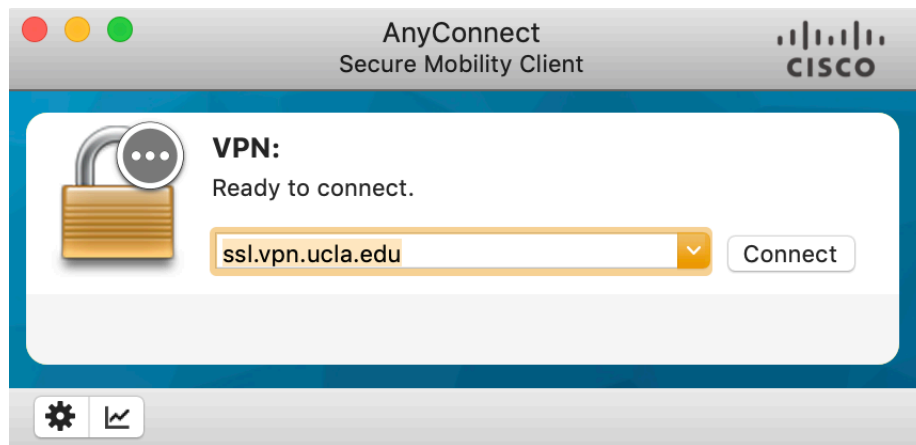


Figure 3.10:

Step 2. Type in your UCLA ID and Password (same as you use to get into email)

Step 3. Accept the SSO push to your second device

Step 4. Click 'Accept'

Step 5. Go to the magnifying glass at the top right of your screen and search for Screen Sharing.

Step 6. Type in the IP address for the Bear Den computer: 164.67.125.42

Step 7. Type in the username and pw for the Bear Den computer: Username - Brain & Body Lab PW - BaBLaB

Step 8. You will see a new window pop up, with a desktop, which is the desktop of the Bear Den computer.

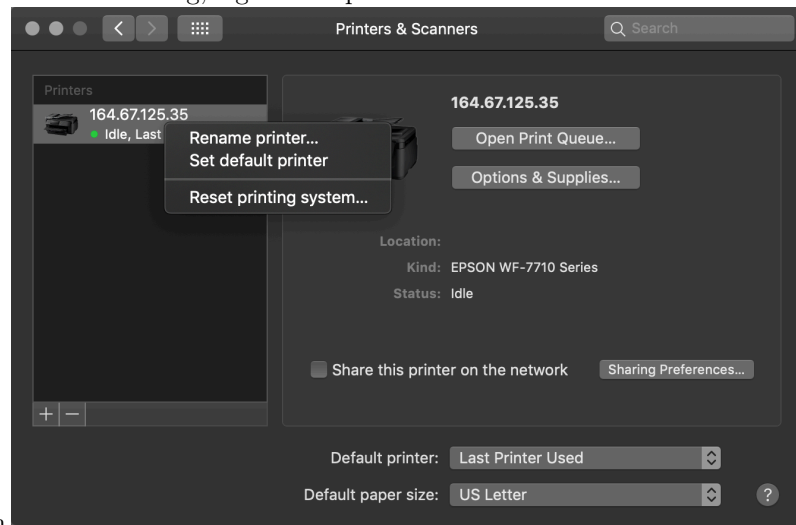
A second option would be to go to the Finder on your Mac, on the top menu bar click 'Go' and then click 'Connect to Server'. Type in `vpn://164.67.125.42`. This will take you straight to the screen sharing page where you can then perform Step 7 & 8 from above.

3.6 Equipment

3.6.1 Biopac

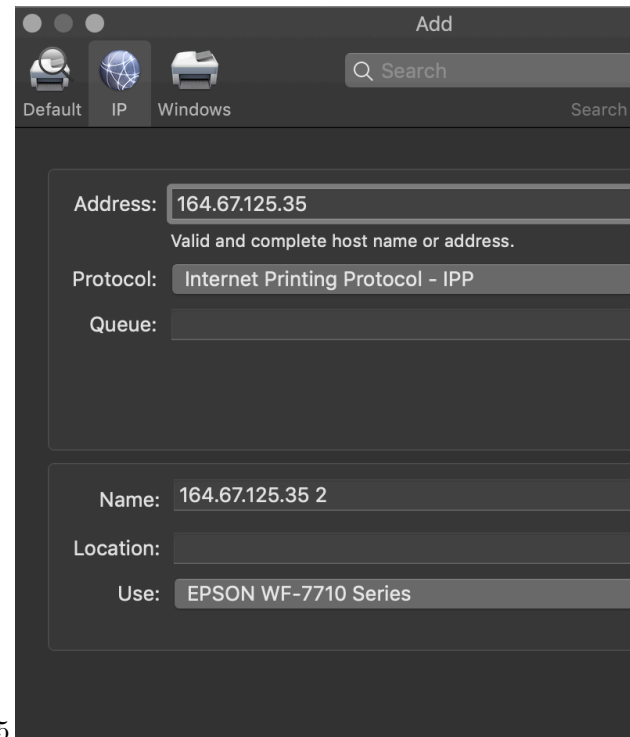
3.6.2 Printer

- Make sure you are connected to eduroam wifi
- Open up Printer & Scanners in System Preferences
 - If current printer is not working, right click printer and click Reset



Printing System

- Reset Computer
- Open up System Preferences – Printers & Scanners
- Click on + sign to add a printer



- Enter IP Address from Printer: 164.67.125.35
- Make sure Use displays: EPSON WF-7710 Series
- Click ADD
- Reset your Printer Presets if needed

3.7 Social Media

3.7.1 Instagram

The pride and joy of the lab. There is a lot of content to keep track of and to ensure is posted weekly.

General important rules:

- Keep posts short, family-friendly, and accessible.
- If you post on the story, it should also likely be added to a story highlight.
- Stick to the color scheme and aesthetic (this includes matching the text in story highlights to the story highlight cover color).
- Maintain the integrity of the main feed grid (will be elaborated on further down).

- Maintain the consistency of the Lab’s hashtags (will be elaborated on further down).

Feed Content:

- The feed grid is an important part of the aesthetic of the lab’s social media. We can divide the grid into “A Week” and “B Week” rows. Because there are 3 posts horizontally in the grid, there should be 3 pieces of content posted each week (or with relative consistency).

“A Week”:

- Biome Bites! ad post: This is simply a post saying to check the story for this week’s Biome Bites! installment. The caption for this should be brief and maybe reference the content in the actual story post.
- Lab Meeting ad post OR Email List ad post: Post this on lab meeting day in “A Week”. If there is a speaker or specific topic for the week, discuss that briefly in the caption.
- In “B Week”, don’t post this even if there is a lab meeting. Instead, post a previous Lab Meeting ad post on the story. If there is not a lab meeting during that “A Week”, you should post the Email List ad post instead.
- Brain Bites! ad post: This is simply a post saying to check the story for this week’s Brain Bites! installment. The caption for this should be brief and maybe reference the content in the actual story post.

“B Week”:

- 3 random posts: post pictures from around the lab, from events, or advertisements for upcoming events. Check the existing feed for ideas, and try to stay current with seasons, trends, etc.
- If there is an event upcoming, use the following template to advertise it.

Important notes for all feed content:

- Post all posts to both instagram and facebook (integrated feature on insta)
- End every single post with the following: #brain
- Add 2-3 topical hashtags on the new line afterwards, and then follow that with the following block of hashtags: #funscience #psychology #neuroscience #research #lablife #ucla #gutbiome #dev #psych #brain #body #adolescence #childhood #ela #losangeles #scientist

Story Content:

- **Q&A Monday:** every Monday, post the Q&A Monday story with instagram’s questions feature attached. Check periodically throughout the day to see if there are any questions worth responding to. Post any responses on the Q&A story highlight.
- **Biome Bites!:** A weekly fun fact about the microbiome. Try to stay scientific (with citations) and avoid product/treatment recommendations that might be trendy or controversial. Post the bite itself on the story, and

every other week advertise it with a main feed post. Add to the Weekly Bites story highlight.

- **Lab Meeting ad:** on lab meeting days, post one of the ad posts on the story.
- **Brain Bites!:** A weekly fun fact about the brain/developmental psych. Try to stay scientific (with citations) and avoid product/treatment recommendations that might be trendy or controversial. Post the bite itself on the story, and every other week advertise it with a main feed post. Add to the Weekly Bites story highlight.
- **Contact Story ad:** on Fridays, post the contact story post.

When events are coming up, be sure to post frequently on the story about the date, time, and what activities we will be doing.

There is a whole series of story templates made to show off different activities and share information regarding the event.

Where to Find the Designs:

- All of the above designs for social media posts are on our canva site.
- If you need to adjust any of the designs, feel free to do so.

3.7.2 Facebook

Most of the content will carry over from instagram because the accounts are linked.

Just ensure that you stay active with checking notifications and responding to comments.

Consistency across all of the lab materials is the most important thing to maintain for our online footprint.

If you are unsure of what a post should look like, check out previous posts and highlights for ideas!

3.8 Research Assistant Hiring

3.8.1 Not hiring

If we are not looking for research assistants, please respond to any inquiries with the following template.

- [BAB - NOT HIRING]

3.8.2 Hiring

If we are looking for research assistants, please follow the protocol below.

1. Qualified candidates should be invited to fill out our form using the following template.
 - [BAB - INVITE APPLY]
2. Candidates to be interviewed should be invited to interview using the following template.
 - [BAB - INTERVIEW]
3. Candidates we wish to extend an offer to should be emailed using the following template.
 - [BAB - OFFER]
4. Once hired, there are several email templates to welcome/onboard members to the team. Please send the email and follow the instructions in the prompt.
 - [BAB - ONBOARDING STUDENT]
 - [BAB - ONBOARDING NON-STUDENT]

Chapter 4

Research Protocols

4.1 Data Management

4.1.1 Storing Active Datasets

Lab data can be stored on Box, the psychology department server, and on external hard drives and CD's. Any data with personally identifying information can only be stored on non-networked, encrypted, external harddrives, flash drives, and CD's.

Although the the data is routinely backed up, the backup is only on-site – so make extra backups! Each lab member should back up raw data on an external hard drive, as well as the code needed to reproduce all analyses. You should not store data locally on your computer (but logging into your Box/server account on your computer is ok).

4.1.2 Data Organization

If you have already run several independent projects and have a data organization structure that works well for you, feel free to use it. If not (or if you are looking for a change), the following structure is recommended (based on Neuropipe):

- projectName/subjects
 - individual directories for each of your participants
 - projectName/subjects/{subj}/analysis

- * subject-specific analyses (e.g., 1st and 2nd level analysis – at the run level and experiment level)
- projectName/subjects/{subj}/data
 - * raw data for that participant, with the following directories...
 - behavioralData (for, well, behavioral data)
 - eyetrackingData (if applicable)
 - nifti (raw nifti files / raw MRI and fMRI data)
 - rois (participant-specific ROIs)
- projectName/subjects/{subj}/design
 - * timing files for that participant, with different directories for the different GLMs you’re running (and the different runs in the experiment)
- projectName/subjects/{subj}/fsf
 - * if you’re using FSL, put the .fsf files here. If you’re using SPM or something else, save the files for setting up preprocessing and GLMs here
- projectName/subjects/{subj}/scripts
 - * Matlab, Python, R, or bash scripts that you used for that participant. You should keep the ‘template’ scripts elsewhere, but you can store scripts you modified specifically for that participant here
- projectName/scripts
 - template scripts and that you may modify for each participant, as well as scripts and functions used for all participants and group analyses
 - recommend making subdirectories for each type of analysis (e.g., behavior, pattern analysis, functional connectivity, univariate)
 - if you have scripts that are the same for each participant, you can have symbolic links for them in your participant-specific scripts directories
- projectName/results
 - figures with main results, powerpoint or keynote presentations, manuscripts if you wish
- projectName/notes
 - detailed notes about the design, analysis pipeline, relevant papers, etc
- projectName/group
 - group analyses
 - recommend making subdirectories for each type of analysis (e.g., behavior, pattern analysis, functional connectivity, univariate)
- projectName/task
 - code for your behavioral experiment, stimuli, piloting information
 - if you are running your presentation code off of the server, it will still be good to have a copy of the code here (but you can keep the stimuli only on the server if you’d like)

When you leave the lab, your projects directories should be set up like this, or

something similarly transparent, so that other people can look at your data and code. You must do this, otherwise your analysis pipeline and data structure will be uninterpretable to others once you leave, and this will slow everyone down (and cause us to bug you repeatedly to clean up your project directory or answer questions about it).

4.1.3 Archiving Inactive Datasets

Before you leave, or upon completion of a project, you must archive old datasets and back them up. We will develop the instructions for this when we reach our first inactive dataset.

4.2 Ethics

4.2.1 IRB

Consent, Assent, and Screening

Links to templates from the UCLA research administration group.

4.2.2 IBC

What is the IBC?

The IBC is the Institutional Biosafety Committee, which has the same purpose as the IRB but specific to research involving biohazards materials. The IBC is an arm of the UCLA Environment Health & Safety office (EH&S).

How to Apply for Approval

1. DBS approval and approval to collect any other biological samples is processed through UCLA SafetyNet, the IBC online system, which is the IBC's equivalent to webIRB. SafetyNet is accessible here with UCLA login ID.
 - IBC approval IS needed for blood samples
 - IBC approval IS NOT needed for saliva, stool, or hair samples unless
 - Saliva is collected from dental procedures
 - Stool or hair samples are contaminated with blood or infected with pathogens (e.g. HBV, HIV)

2. Once signed in, a new protocol is created by clicking ‘Create BUA’. A BUA is a Biological Use Authorization, which is synonymous with IBC protocol. Completing the BUA is just like completing an IRB protocol, but with a focus on the collection of biological samples.
3. A BUA (or IBC protocol) requires the following document in addition to information supplied in the online form:
 - Lab Specific Biosafety Manual (includes the following)
 - Laboratory Specific SOPs (based on general template available here)
 - Bloodborne Pathogens Exposure Control Plan (based on general template available here)

NOTE:

- Consultation with an EH&S is likely necessary to complete the BUA protocol. Contact EH&S or IBC employees with questions at biosafety@ehs.ucla.edu or ibc@research.ucla.edu.
 - All EH&S documents are available here.
 - Additional documents may be required depending on the kind of biological material that’s going to be collected.
4. Once a BUA is completed, it will appear under ‘Submissions.’
 5. IBC staff may require that modifications be made to the protocol, just as the IRB would. You may reply to modification requests and make modifications in the same way that you would for an IRB protocol, by logging your response to a reviewers comment and then making the necessary change in the protocol itself.
 6. Once all modifications are made, there are two more requirements before a BUA can be approved:
 - Staff involved in collecting biological samples must acquire necessary training
 - Training may be completed via the UCLA WorkSafe portal accessible with UCLA logon ID.
 - * For Dried Blood Spot collection, the following trainings are required of any staff working directly with samples:
 - NIH Guidelines for UCLA Researchers IBC Compliance Training (online)
 - Laboratory Safety Fundamentals (online)
 - Blood-borne Pathogens Training (online)
 - Medical Waste Management (online)
 - Biological Safety Cabinet (BSC) (online)
 - Biosafety ABC’s - Biosafety Level 2 Training (in-person)
 - * The PI is required to complete two courses :
 - NIH Guidelines for UCLA Researchers: IBC Compliance Training (online)
 - Laboratory Safety for PIs and Lab Supervisors (in-person)

- Training must be up to date. Training certificates are maintained on the BAB Lab Box at BABLAB/Lab/Training/IBC
- A room inspection must be done to approve the use of physical space for sample collection and storage.
- The room inspection is arranged directly with EH&S staff.

4.3 Questionnaire Database

In Box you can find a questionnaire database for the BABLab. This is different from the study specific questionnaire folders! This database is a repository for all of the questionnaires we have used or thought about using in our research. Organizing them here makes it easy for future BABLab members to plan, organize, and reproduce studies!

This includes the questionnaires used in all of our studies, including source material. In addition, the questionnaire database excel file contains information such as a brief description and reference (needed for IRB protocols and the like).

You can find the questionnaire database at the following path:

- Box/BABLAB/Lab/Questionnaires

You can find the questionnaire database spreadsheet at the following path:

- Box/BABLAB/Lab/Questionnaires/Questionnaire_database.xlsx

When making a new study, please add your questions to the database, including a category and a reference! Adding a category makes it easy to filter this sheet by category when exploring measures.

A	B	C	D	E	F	G	H	I
Questionnaire	Questionnaire Name	Category	Description	Reference	Age Group	Respondent	Time	Notes
scqd	Screen for child anxiety related emotional disorders	Mental health	assesses symptoms related to school phobia. The SCARED consists of 41 items and 5 factors that parallel the DSM-IV classification of anxiety disorders. The child and parent versions of the SCARED have excellent parent-child agreement and good internal consistency, test-retest reliability, and discriminant validity, and it is sensitive to treatment response.	Schenberg, R. B., Dore, D. A., DiGiuseppe, L., Briggs, J., Adams, S., & Buehler, M. (2005). Psychometric properties of the Screen for Child Anxiety Related Emotional Disorders (SCARED): A replication study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 44(12), 1281-6.	8 to 18 years	Parent proxy	10 minutes	108
			The State-Trait Anxiety Inventory (STAI) is a commonly used measure of trait and state anxiety. It can be used in clinical settings to diagnose anxiety and to distinguish it from depressive syndromes. It also is often used in research as an indicator of caregiver distress.					
			Anxiety Form Y, its most popular version, has 20 items for assessing trait anxiety and 20 for state anxiety. State anxiety items include "I am nervous" and "I feel jittery." Trait anxiety items include "I worry too much over something that really doesn't matter" and "I am content; I am a steady person." All items are rated on a 4-point scale (e.g., from "Not at all" to "Very much"). Higher scores indicate greater anxiety. The STAI is appropriate for those who have at least a sixth-grade reading level.	Widom, T., Shewchuk, R., & Richards, J. S. (2003). Family caregiver problem solving abilities and adjustment during the initial year of the caregiving role. <i>Journal of Consulting Psychology</i> , 48, 323-333.				
			Internal consistency coefficients for the scale have ranged from .88 to .95; test-retest reliability coefficients have ranged from .85 to .92 over a 2-month interval. Test-retest coefficients for this measure in the present study ranged from .89 to .91. Considerable evidence attests to the construct and concurrent validity of the scale.	Shewchuk, R., Richards, J. S., & Elliott, T. (1999). Depressive processes in health outcomes among caregivers of patients with spinal cord injuries. <i>Health Psychology</i> , 17, 125-129.				
			Studies also have shown that it is a sensitive predictor of caregiver distress over time, and that it can vary with changes in support systems, health, and other individual characteristics.	Spielberger, C. D., Gorsuch, R. L., Lushene, P. R., & Vagg, P. R., & Jacobs, G. A. (1988). <i>Manual for the State-Trait Anxiety Inventory</i> . Palo Alto, CA: Consulting Psychologists Press.	Adult	Self	10 minutes	108
	State-Trait Anxiety Inventory	Mental health	The Perceived Stress Scale is a chronic stress assessment instrument. This test, which originally developed in 1983, remains a popular choice for helping us understand how different situations affect our feelings and our perceived stress. The questions in this scale ask about your feelings and thoughts during the last month or so.	Cohen, S., Kamarck, T., and Mermelstein, R. (1983). A global measure of perceived stress. <i>Journal of Health and Social Behavior</i> , 24, 385-396.			5-10 minutes	
	Perceived Stress Scale	Mental health	Assesses the neurochemistry and performance of parenting behaviors and cognitions.	Sorenson, S. and Dahlman, S. (Eds.) (1996). <i>The Social Psychology of Health</i> . Newbury Park, CA: Sage, 1996.	11+	Child	5-10 minutes	108
	Child rearing practices report	Parenting	The ABC measures four dimensions of parenting that are viewed as the strategies and treatment of child externalizing problems: (1) positive involvement with children; (2) supervision and monitoring; (3) use of positive discipline techniques; (4) consistency in the use of such discipline and (5) use of corporal punishment. There is both a parent form and a child form, 42 items.	Patel, A. V., & Bouchard, L. J. (1983). A classification of the Black child rearing practices report. <i>Journal of Clinical Psychology</i> , 39(1), 129-134.	All	Parent proxy	6 minutes	108
	Alabama parenting questionnaire	Parenting	The Children's Perception of Interparental Conflict Scale (CPIC) subscales (Conflict Properties, Threat, Self-Blame) demonstrated acceptable levels of internal consistency and test-retest reliability.	Cohen, C. A., Sirois, S., & Fink, P. J. (2004). Psychometric properties of the Alabama Parenting Questionnaire. <i>Journal of Child and Family Studies</i> , 13, 197-216.	6 to 18 years	Child	5 minutes	108
	Children's Perception of Interparental Conflict Scale	Parenting	The PSI is designed to evaluate the magnitude of stress in the parent-child system, focusing on three major domains of child characteristics: (1) parent characteristics, and (2) situational/demographic life stress. We are going to use the 30-item short form.	Gottman, I., Gottman, M., & Frick, P. J. (1992). Assessing Marital Conflict from the Child's Perspective: The Children's Perception of Interparental Conflict Scale. <i>Child Development</i> , 63(3), 568-573. doi:10.1111/j.1467-8624.1992.tb03650.x	6 to 18 years	Child	5 minutes	108
	Parenting stress index	Parenting	The Wechsler Abbreviated Scale of Intelligence-II (WASI) provides a brief, reliable measure of cognitive ability in clinical, educational, and research settings. WASI maintains the original format and structure but offers greater clinical utility and efficiency.	Abidin, R. R. (2012). <i>Parenting stress index, fourth edition (PSI-4)</i> . Lutz, FL: Psychological Assessment Resources.	3 to 12 years	Parent proxy	10 minutes	108
	Wechsler Abbreviated Scale of Intelligence II	Cognitive	The WASI is a comprehensive yet flexible measurement tool useful for achievement skills assessment, learning disabilities, emotional adjustment, and clinical assessment for nonverbal children through.	Person Assessments	8+ years	Child	20 minutes	108

Figure 4.1:

Please create a folder for each questionnaire within the database to allow for the organization of source material. For example, the scq (social cravings question-

naire) was adapted from the fcq (food cravings questionnaire). Therefore, in the scq folder I included the original measure for the fcq, and a paper in which it is described and validated. In addition, if you have created this questionnaire as an instrument in REDCap - please upload the zipped file of the instrument to this folder! This will save a great deal of time for future researchers!

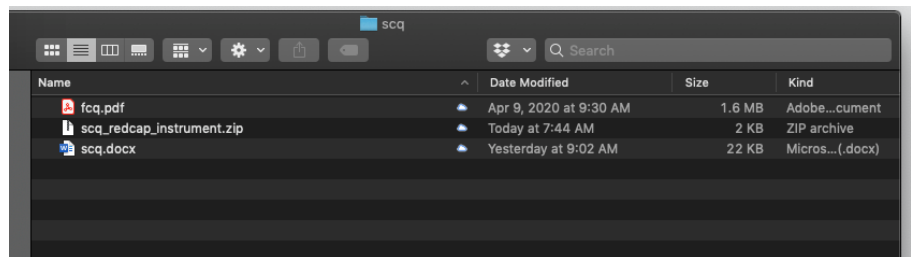


Figure 4.2:

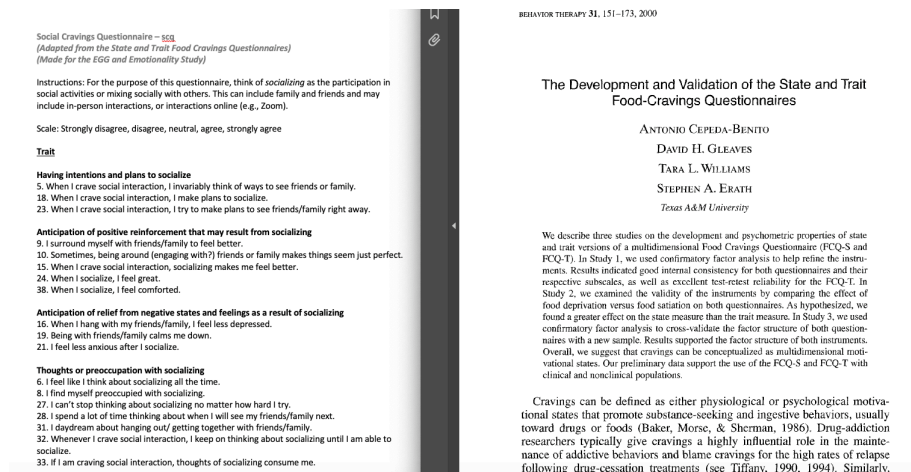


Figure 4.3:

4.4 Interviews

4.4.1 KSADS

- Align expectations from the start (semi-structured interview)
- Encourage brief responses
- Can write down details later
- Dive in and direct participant

- Read the threshold criteria
-

4.5 Tests

4.5.1 WASI

4.5.1.1 WASI Administration

Ensure you have all necessary materials (WASI/WIAT administration instruction sheet, WASI score sheet, pencil with NO eraser, WASI administration booklet, WASI score book)

Part I: Vocabulary

General Instruction: You will be pointing to each item in the WASI administration booklet and asking the child/adolescent what this item is/if they can describe what this item means to you

1. Start audio recording
2. Flip the WASI administration booklet to page 41, item #4 (what is a shirt?)
3. Flip WASI scoring booklet to page 74, beginning with item #4 (what is a shirt?)
 - Use the WASI scoring booklet to determine if child/adolescent's description of each item shall be categorized as score 0, 1, or 2
 - *Note:* Q indicated on the scoring booklet refers to prompt/query the child further- "Can you tell me more?"
 - Provide queries as often as necessary- marginal responses, generalized responses, functional responses, and gaud gestures, but NOT answers that are clearly incorrect
4. Note score on the WASI score sheet: Vocabulary
5. If the child does not obtain a perfect score on either item 4 or item 5, administer the preceding items in reverse order until two consecutive perfect scores are obtained
6. Stop administering when the child/adolescent receives 3 consecutive Zeros *OR* participant hits max score for age group (age 6: item 22; age 7-11: item 25; age 12-14: item 28)
7. Keep audio recording for Part II: Matrix Reasoning

Note: These will be audio recorded and can sometimes move quickly- can be scored later

Part II: Matrix Reasoning

General Instruction: You will be pointing to each matrix reasoning question in the WASI administration booklet and asking the child/adolescent where this item belongs in the missing box

1. Flip the WASI administration booklet to page 57- Practice Questions
 - Explain you will do a few practice questions first then walk through 2 practice questions
 - You may acknowledge correct responses/explain why answers may be incorrect
 2. Flip to correct start page/item to begin (age 6-8: item 1; age 9+: item 4)
 - Do NOT give verbal acknowledgement to their answers (e.g. Correct! That's right!)
 3. If adolescents age 9+ do not obtain a perfect score on either item 4 or item 5, administer the preceding items in reverse order until two consecutive perfect scores are obtained
 4. Note score on the WASI score sheet: Matrix Reasoning
 5. Stop administering when the child/adolescent receives 3 consecutive Zeros *OR* participant hits max score for age group (age 6-8: item 24)
 6. Stop audio recording
-

4.5.1.2 WASI Scoring

Part I

1. Examiner writes “scored by: NAME” at the top of the sheet
2. Fill in any missing scores in Vocabulary or Matrix Reasoning tests using audio file if questions are missing (e.g. scores continue before and after this missing question, NOT because the administrator left questions blank because they have stopped the test)
3. Add up the Vocabulary total raw score:
 - *Note:* Even if a participant begins at item 4 due to age, the total raw score should still include items 1-3
4. Add up Matrix Reasoning total raw score
5. Transfer both total raw scores to front sheet under “Total Raw Score to T-Score Conversion” chart in column titled “Raw Score”

Part II

1. Ensure you have the participant’s correct age at day of testing in the upper right corner
2. Open WASI-II Manual book > page 151 for T-Score Conversions
 - Flip to correct chart by age group (age group indicated at top of chart using year:month format)
 - Under the correct chart by age group of the participant, view VC column for Vocabulary and MR column for Matrix Reasoning

- Scroll down VC column for correct Vocabulary total raw score and acquire T-Score equivalent (horizontally)
 - Scroll down MR column for correct Matrix Reasoning total raw score and acquire T-Score equivalent (horizontally)
 - Write T-Score number in the boxes under “Total Raw Score to T-Score Conversion” chart in column titled “T-Scores”
 - Add T-Scores totals for box titled “Full Scale-2”
 - Copy this total number to “Sum of T-Scores to Composite Score Conversion” chart in column titled “Sum of T-Scores”
3. Flip WASI-II Manual book > page 188 for FSIQ, Percentile Rank, and Confidence Interval
- **To obtain FSIQ:** Scroll down Sum of T-Scores column and compare horizontally to FSIQ-2 column
 - **To obtain Percentile Rank:** Scroll down Sum of T-Scores column and compare horizontally to Percentile Rank column
 - **To obtain Confidence Interval (always circle/indicate 95%):** Scroll down Sum of T-Scores column and compare horizontally to 95% column in correct age group

4.5.2 WIAT

4.5.2.1 WIAT Administration

Ensure you have all necessary materials (WASI/WIAT administration instruction sheet, WIAT score sheet, 2 pencils with NO erasers, WIAT word reading list, WIAT Math problems sheet)

Part I: Word Reading

General Instruction: You will be asking the child/adolescent to read off the WIAT word reading list left to right, top to bottom until they can no longer read the words

1. Start audio recording
2. Note in scoring sheet what grade participant is in
3. Note the following basic scoring instructions:
 - **(1)** if fluent/correct
 - **(DK)** if the child does not know
 - **(>3)** if it took the child longer than 3 seconds to say
 - **(SC)** if the child said the word wrong but self-corrected
4. If multiple attempts are made to read a word, score only the last attempt
5. If the child is sounding the word out/verbalizes the word in a choppy manner, ask the child to “read the word altogether” immediately after

- If the next attempt is not fluent, score as 0 and say “try the next one”
- 6. If the child skips a word or row, redirect the child to the appropriate place immediately after and make a note in the scoring sheet
- 7. If the child was unclear when reading a word/you did not hear the child correctly, ask the child to repeat the whole row of words where this particular word was located at the very end after they have finished reading all they can
- 8. Discontinue after the child has reached 4 consecutive Zeros

Part II: Numerical Operations

1. You will be asking the child to fill out the “math worksheet” him/herself
 - Indicate where to begin based on age (Grades K-1: item 1; grades 2-4: item 14; grades 5-12+: item 18)
 - Explain to the child/adolescent to work on problems from left to right, top to bottom in order and if they do not know a question they may skip it
 - If beginning at item 1, refer to WIAT scoring sheet for specific verbal administration instructions
 2. If child does not reach 3 consecutive scores of 1, reverse backward until child has reached a correct response
 3. Be sure to pay attention to the child’s responses- if the numbers they write are illegible or mirrored, ask the child to verbally indicate the response they meant
 - Note that you obtained a verbal response and note the actual response in your WIAT score sheet
 4. Discontinue this task when they have reached 4 consecutive Zeros
 5. Stop audio recording
-

4.5.2.2 WIAT Scoring

Part I

1. Examiner writes “scored by: NAME” at the top of the sheet
2. Fill in any missing scores in Vocabulary or Matrix Reasoning tests using audio file if questions are missing (e.g. scores continue before and after this missing question, NOT because the administrator left questions blank because they have stopped the test)
3. Add up the Word Reading Total Raw Score:
 - Add up Word Reading Total Score Box
 - Add up Total >3” Box
 - Add up Total SC Box
4. Word Reading Speed Total Raw Score:
 - Listen to the audio file and note time participant began to read words
 - Count 30 seconds forward

- Note the word the participant completed at 30 seconds; write item number of this word in box
- 5. Add up the Numerical Operations Total Raw Score
 - *Note:* Even if a participant begins at item 8 due to age, the total raw score should still include items 1-7
- 6. Transfer both Word Reading Total Raw Score and Numerical Operations Total Raw Score to front page under “Composite Score Summary” chart

Part II

1. Ensure you have the participant’s correct age at day of testing in the upper right corner
2. To obtain the Composite Standard Score:
 - Flip WIAT-III Manual book > page 252-387 for Table C.1 based on age of participant (noted at top of chart by year, month, days range)
 - Scroll down Word Reading column and compare horizontally to Standard Score column; write standard score in “Composite Standard Score” box
 - Scroll down Numerical Operations column and compare horizontally to Standard Score column; write standard score in “Composite Standard Score” box
3. To obtain the Confidence Interval (always at 95%):
 - Flip WIAT-III Manual book > page 392 for Table C.3
 - Follow column for correct age > 95% > Word Reading
 - Add and subtract this number to/from the Composite Standard Score: Word Reading to create highest and lowest numbers for the Confidence Interval
 - Follow column for correct age > 95% > Numerical Operations
 - Add and subtract this number to/from the Composite Standard Score: Numerical Operations to create highest and lowest numbers for the Confidence Interval
4. To obtain GRADE-LEVEL equivalents of score: (*Note: No longer doing percentile*)
 - Flip WIAT-III Manual book > page 398 for Table D.2
 - Scroll down through Word Reading column and look for raw score, view to left column for grade equivalent
 - Flip WIAT-III Manual book > page 402 for Table D.2
 - Scroll down through Numerical Operations column and look for raw score, view to left column for grade equivalent

4.6 Behavioral Coding

4.6.1 FIMS

- Always code positive video first (could be colored by negative video)
 - When not obvious use the process of elimination
 - Make notes while coding
 - Maturity for child for their age
 - Attunement = harmonious
-

4.7 Physiological Measurement

4.7.1 ECG

Electrocardiogram (ECG) measures a subject's heart rate and waveform pattern. With each heartbeat, an electrical signal travels through the heart. This electrical wave causes the muscle to squeeze and pump blood from the heart. ECG measures this wave through electrodes placed across the torso. By collecting ECG, you can detect changes in heart function due to certain stimuli. Things like stress, excitement, fear, and other emotional responses can be physiologically measured based on changes in the ECG readouts.

Biopac Setup

- In our ECG setup, we have one transmitter with one channel.
- The red and white leads are the signal, the black lead is the ground.
- Because we are using a wireless setup, there needs to be a clear line of sight between the transmitter and the receiver.

Electrode Placement

- We will be placing 2 electrodes just below the collarbones and one electrode on the lowest left rib.

Filtering and Signal Frequency

- We will sample ECG at a rate of 2kHz, or 2000 samples/second. This gives us a resolution high enough to catch all of the important parts of the heartbeat waveform.
- Noise is not much of an issue with collecting ECG in a 3-electrode setup.

Subject Position

- Ensure that the subject is in a comfortable position, so that body movement can be completely avoided or reduced to the minimal. The subject should be asked not to talk, move, read or make phone calls during the procedure.

- Ensure that the position of the subject is the same if there are multiple sessions. Timing of unavoidable body movement or motion artifacts should be noted and the recording periods with motion artifacts must be removed before analysis.

Gathering ECG Data

- Lightly abrade the skin at the electrode sites with EL-Prep Gel
 - Wipe off excess with a wet wipe or tissue
 - After prepping the electrodes with Gel-100, attach electrodes to the skin at the three positions indicated above
 - Let these sit as long as possible to adhere and for the gel to soak in
 - Ask the participant to put on the module like a belt around their torso
 - Make sure the electrode lead inputs are pointed up towards their head
 - Connect the white lead to the Right Collarbone electrode, connect the black lead to the Left Collarbone electrode, and connect the red lead to the Left Rib electrode
 - Turn on the transmitter and ensure that both the light on the Biopac receiver module and the transmitter are green (the transmitter should be flashing, whereas the receiver should be solid)
 - Make sure there is a clear, unobstructed line of sight between the transmitter and receiver antenna
 - Open AcqKnowledge by selecting the template file on the desktop
 - If the system is not connected to the hardware, make sure the wifi is turned off and restart AcqKnowledge
 - Ensure all devices are connected and lead wires attached properly
 - Hit the green “Start” button and click through all of the dialog boxes that you’re prompted with
-

4.7.2 EGG

Biopac Setup

- In our EGG setup we have one transmitter with two channels (A and B).
- The white leads are the reference, the red are the signal, and the black is the ground.
- Each transmitter needs to have a ground.
- Because we are using a wireless setup, there needs to be a clear line of sight between the transmitter and the receiver.

Electrode Placement

- We will place the two white electrodes side-by-side on the xyphoid (which is the lower part of the sternum).
- We will place the two red electrodes in position 1 and 4 in the diagram above.

- We will place the black electrode (the ground) on the second from bottom rib on the left. Try to get it over the bone as much as possible.
- Position 1 should be in line with the reference electrode, and position 4 should be in line with the ground.
- Next, we need to have the transmitter up high on the participants chest so there is line of sight between the transmitter and receiver (antenna).

Alternative:

- Regular electrocardiogram (ECG) electrodes can be used for EGG recordings.
- The most commonly used configuration for recording 1-channel EGG is to place one electrode at the midpoint on a line connecting the xiphoid and umbilicus, and the other electrode 5 cm away (up and 45 degree) to the patient's left.
- The ground electrode is placed on the left costal margin horizontal to the first active electrode.

Filtering and signal frequency

- *Amplification:* the EGG signal is usually in a range of 50-500 μ V and adequate amplification needs to be provided by a recording device so that the amplified signal is of an appropriate range for display and analysis
- *Filter setting:* determines the frequency range of the EGG signal to be maximally amplified. The interested range of the EGG signal is in the range of 0.5-9.0 cpm or 0.0083 to 0.15 Hz which is much lower than that of most of extracellular recordings.
 - In addition to the basic fundamental frequencies of 0.5-9.0 cpm, it is also important to record certain harmonics (multiples of the fundamental frequency). Accordingly, an appropriate frequency setting is in the range of 0.0083 to 1 Hz.

Skin Preparation

- First, the abdominal skin where the electrodes are to be positioned should be thoroughly cleaned to ensure that the impedance between the pair of electrodes is below 10 k Ω .
 - To do so, it is advised to abrade the skin until it turns pinkish using some sandy skin-preparation jelly, and then apply a thin layer of electrode jelly for 1 minute for the jelly to penetrate into the skin.
- Before placing the electrode, the excessive jelly must be completely wiped out.

Subject Position

- Ensure that the subject is in a comfortable position, most commonly supine, so that body movement can be completely avoided or reduced to the minimal. The subject should be asked not to talk, move, read or make phone calls during the procedure.

- Ensure that the position of the subject is the same if there are multiple sessions. Timing of unavoidable body movement or motion artifacts should be noted and the recording periods with motion artifacts must be removed before analysis.

Duration of Recording

- A common mistake in recording the EGG is that the recording is too short. Unlike the ECG in which there are about 60 waves every minute, the EGG is composed of only 3 waves every minute. That is, if the recording is of a short duration of 5 minutes, there are only 15 waves which are obviously insufficient for analysis and interpretation.
- Ideally, at least a 30-minute period is needed to ensure an accurate measure of gastric slow waves in a particular state, such as fasting, fed, baseline or after intervention.

Meals

- We will ask participants to eat something about 1 hour before they come into the lab.
- Then we will give them water (as a test meal) immediately before performing the EGG.
- The subjects should all drink the same amount of water.

Analysis

- The EGG also contains respiration artifact that is between 12-25 cpm and sometimes the ECG artifacts (60 cpm). Occasionally, the slow wave of the small intestine may also be recorded in the EGG (9-12 cpm).
- Although these interferences distort gastric slow waves in the EGG, their frequencies do not overlap with that of the gastric slow waves. Consequently, spectral analysis can be performed to separate the gastric slow waves from interferences.
- Before spectral analysis is performed, any periods with motion artifacts must be identified and deleted because motion artifacts can not be separated from the gastric slow waves even with spectral analysis. So we will need to record their motion during the task.

Dominant Frequency and Power

- The dominant frequency and power of the EGG can be derived from the power spectral density assessed by the periodogram method. The normal range of the dominant frequency of the EGG is between 2 to 4 cpm.
- The EGG is called bradygastria if its dominant frequency is lower than 2 cpm, tachygastria if its dominant frequency is higher than 4 cpm but lower than 9 cpm, and arrhythmia if there is no dominant peak power in the spectrum

Power Ratio or Relative Electrogastrography

- *Power Change*: The ratio of dominant EGG powers after and before an intervention is a commonly used parameter that is associated with alteration in gastric contractions. It is generally accepted that a ratio of > 1 reflects an increase in gastric contractility due to the intervention, whereas a ratio of < 1 reflects a decrease in gastric contractility.
 - If the decibel (dB) unit is used, the ratio should be replaced by the difference between the baseline and after intervention.
- *Percentage of Normal Gastric Slow Waves*: The percentage of normal slow waves is a quantitative assessment of the regularity of the gastric slow wave measured from the EGG. It is defined as the percentage of time during which normal gastric slow waves are observed in the EGG. The percentage of normal slow waves can be computed from the running power spectra of the EGG.
 - In this method, 1 spectrum is derived from every 1 minute (or some other short period) of EGG data; the minute is considered normal if its EGG spectrum exhibits a dominant power in the range of 2-4 cpm. In humans, the normal percentage of gastric slow wave is defined as 70%.
- *Percentage of Gastric Dysrhythmia*: The percentage of gastric dysrhythmia is defined as the percentage of time during which gastric dysrhythmia is observed in the EGG. It is computed in the same way as that for the percentage of normal slow waves.
 - It is further classified into the percentage of bradygastria, the percentage of tachygastria and the percentage of arrhythmia.

4.7.3 GSR

Electrodermal response (EDR) measurements (including Galvanic Skin Response, GSR) show the activity of the eccrine sweat glands. Typically, one will place electrodes where the concentration of these glands is the highest: namely, the fingertips. The activity of the eccrine sweat glands as a response to physiological excitation (stress, fear, etc.) serves to increase the conductivity of the skin when activated. When one applies a very small electric voltage (0.5 V) between two electrodes, the manifested electrical conductance varies in direct proportion to the electric current flowing between the electrodes. For instance, if a subject is presented a stimulus and the palms start to sweat, this response indicates a highly-stimulated state. The EDR of this subject will then be higher than the subject's baseline. If another subject receives the same stimulus and the palms remain as "cool as a cucumber," the EDA reading will remain unchanged with respect to the baseline. EDR undergoes relatively fast habituation (decrease of amplitude) in the event the same stimulus is repeated over and over to the same subject.

Biopac Setup

- In our GSR setup, we have one transmitter with one channel.
- The red lead is the signal, the black lead is the ground.
- Because we are using a wireless setup, there needs to be a clear line of sight between the transmitter and the receiver.

Electrode Placement

- We will be placing the signal electrode on the middle finger of the child's non-dominant hand.
 - This has been noted to be the region of the hand with the most concentrated and reactive eccrine sweat glands, and using the non-dominant ensures that the participants will be able to continue with other activities that they may be tasked with while hooked up to the GSR module.
- The ground electrode can be attached anywhere within reach of the transmitter leads. While the above paper grounded to a position on the participant's arm, for the sake of consistency and simplicity, we are attaching the second electrode to the participants' index finger (on the same hand).
 - This provides an effective ground, consolidates the leads into one area (preventing potential interference or having the electrodes pulled off by strain on the leads), and also standardizes the placement across all the participants.

Filtering and Signal Frequency BioPac Recommendation

- The sample rate can be set quite low for long-term ambulatory measurements or experiments that do not require a high level of temporal precision (i.e., 1-5 samples per second). However, lower sample rates cannot ensure that specific events are accurately represented in what is relayed and graphed, and a degree of timing error might occur.
 - To avoid this, BioPac recommends the sampling rate be set to a minimum of 2000 samps/sec (2KHz). Higher sample rates are useful for a number of methodological reasons and for improvements in precision.
- For EDA/GSR measurements, it is typical to filter the data at 35Hz. Some recommendations are that a sample rate of 200Hz - 400Hz are a minimum to ensure enough samples for accurate separation of phasic waveforms from tonic signals and a more accurate representation of signal shape.
- A general approach is to always err on the side of caution and probably seek to sample higher than you really need. As a general rule 1000Hz - 2000Hz sample rates are more than sufficient and easily achievable. The decision for the present study is to collect at a sampling rate of 2000Hz.

Subject Position

- Ensure that the subject is in a comfortable position, so that body movement can be completely avoided or reduced to the minimal. The subject should be asked not to talk, move, read or make phone calls during the procedure.

- Ensure that the position of the subject is the same if there are multiple sessions. Timing of unavoidable body movement or motion artifacts should be noted and the recording periods with motion artifacts must be removed before analysis.

Gathering GSR Data

- Don't abrade the skin
 - After prepping 2 electrodes with a dab of Gel101, attach them to the child's middle and ring fingers
 - Let these rest to let the adhesive set and gel soak in for 5 minutes
 - Ask the child to put on the PPGED transmitter like a wrist watch. Assist if needed.
 - Attach the transmitter leads to the electrodes (red to middle, black to pointer)
 - These should be the only two leads connected to the device
 - If there are more leads present, ensure you have the correct transmitter and that the correct lead set is plugged in
 - Turn on the transmitter and ensure that both the light on the Biopac receiver module and the transmitter are green (the transmitter should be flashing, whereas the receiver should be solid)
 - Make sure there is a clear, unobstructed line of sight between the transmitter and receiver antenna
 - Open AcqKnowledge by selecting the template file on the desktop
 - If the system is not connected to the hardware, make sure the wifi is turned off and restart AcqKnowledge
 - Ensure all devices are connected and lead wires attached properly
 - Hit the green "Start" button and click through all of the dialog boxes that you're prompted with
-

4.8 Git

To use GitHub and other Git applications, you will need to install Git on your local computer. Git runs in the background and performs tracking and version control for you. This is similar to the way that RStudio runs on top of R.

To install Git:

1. Go here
2. Use the homebrew method
 - Type this line of code into your terminal and press enter (you may have to enter your password, if it looks like you aren't entering text, you really are, so just type and press enter)

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/i
```


3. Once that has installed, type this code into your terminal and press enter
`brew install git`
 4. Git should now be installed
-

4.9 GitHub

1. Download GitHub Desktop

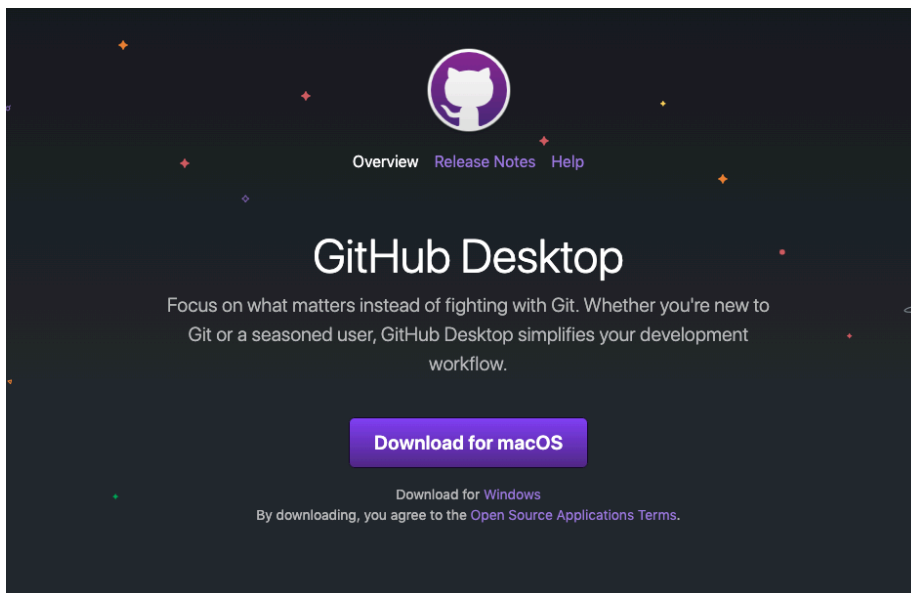


Figure 4.4:

2. Create new repository on GitHub Desktop
 - Make sure to select the correct parent folder
3. Initialize the repository
 - If you press command + shift + . you can see the hidden git files
4. Add your files to the folder
5. Open back to GitHub Desktop
 - The blue dot means there are changes in that folder to commit
6. Publish the repository (this sets up the repository online - choose which organization it should go to)

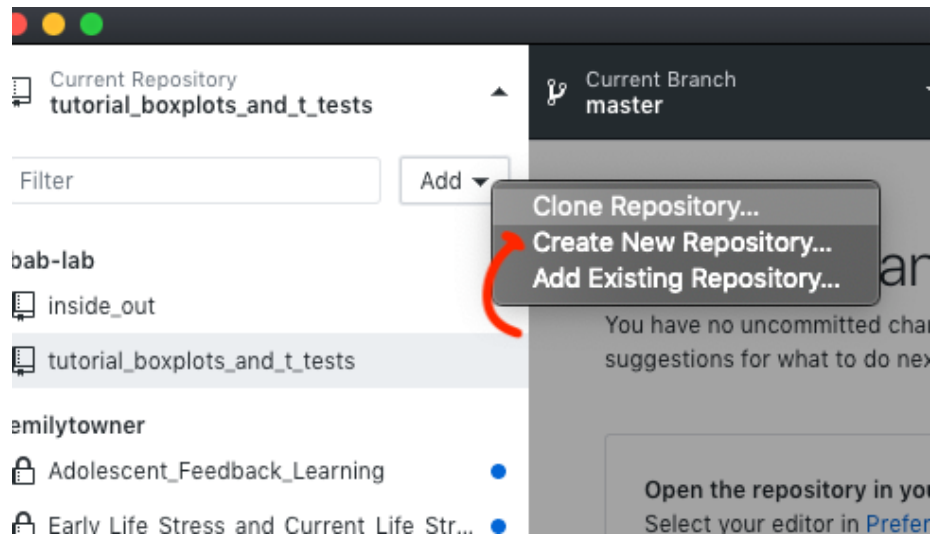


Figure 4.5:

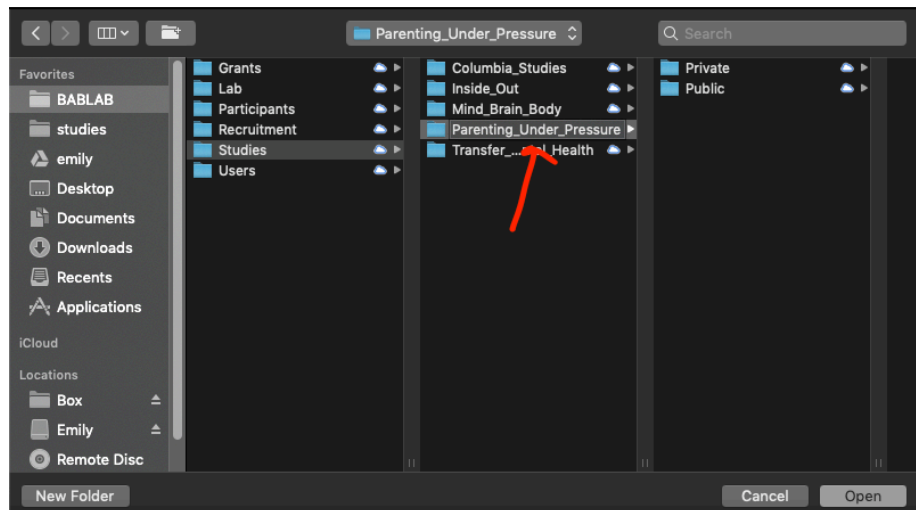
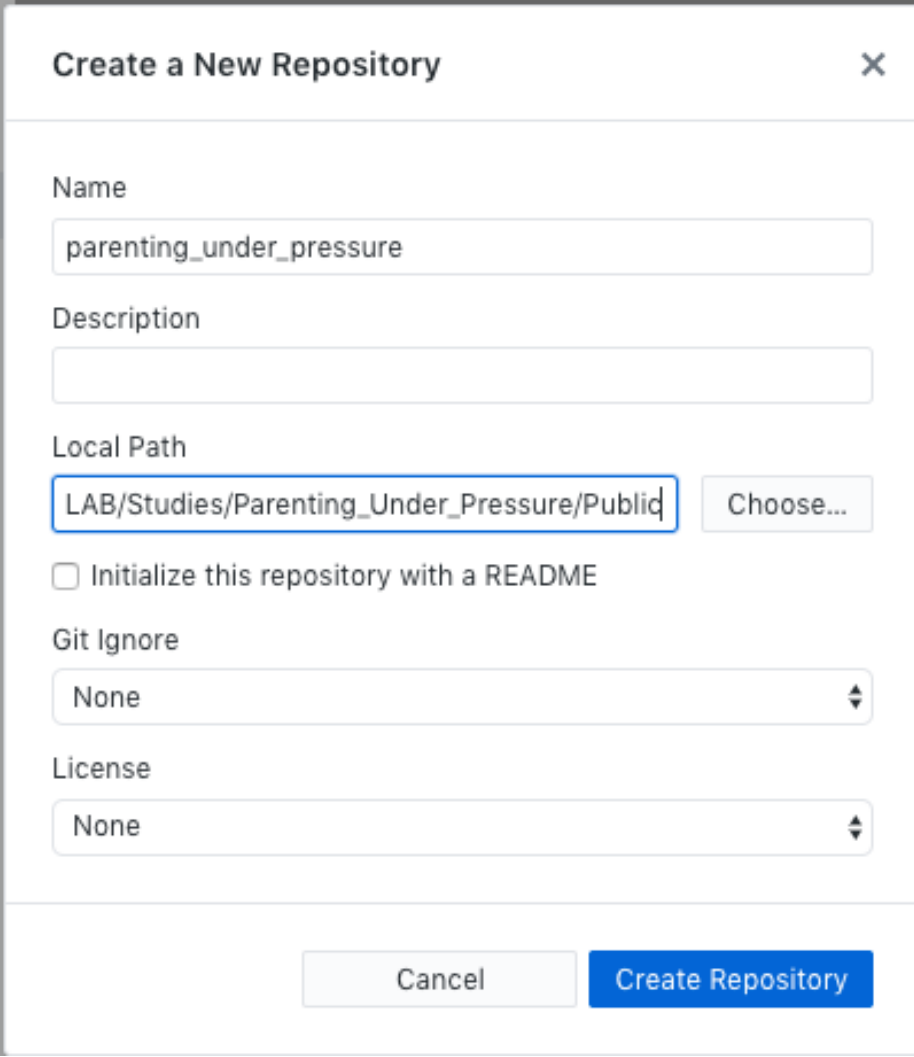


Figure 4.6:



The image shows a 'Create a New Repository' dialog box with a close button (X) in the top right corner. The dialog contains several input fields and options:

- Name:** A text input field containing 'parenting_under_pressure'.
- Description:** An empty text input field.
- Local Path:** A text input field containing 'LAB/Studies/Parenting_Under_Pressure/Public' and a 'Choose...' button to its right.
- Initialize this repository with a README:** An unchecked checkbox.
- Git Ignore:** A dropdown menu with 'None' selected.
- License:** A dropdown menu with 'None' selected.

At the bottom of the dialog are two buttons: 'Cancel' and 'Create Repository'.

Figure 4.7:

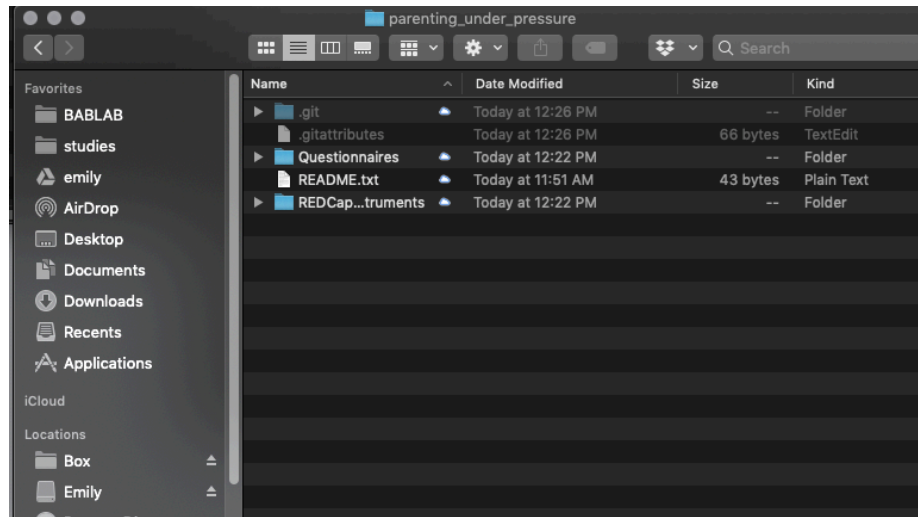


Figure 4.8:

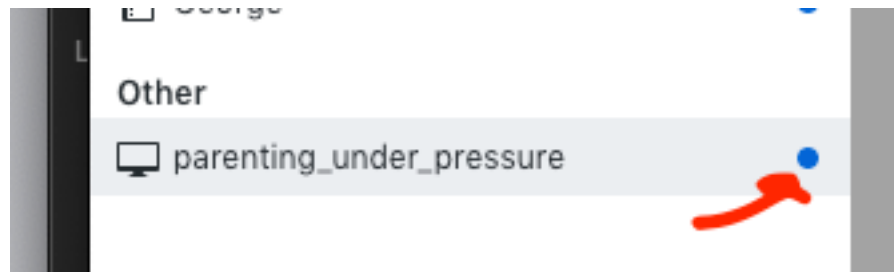


Figure 4.9:

7. Create the first commit and publish the repository (add a comment and select your organization)
- Committing saves the changes to your local git (your local computer record of changes)(local changes)

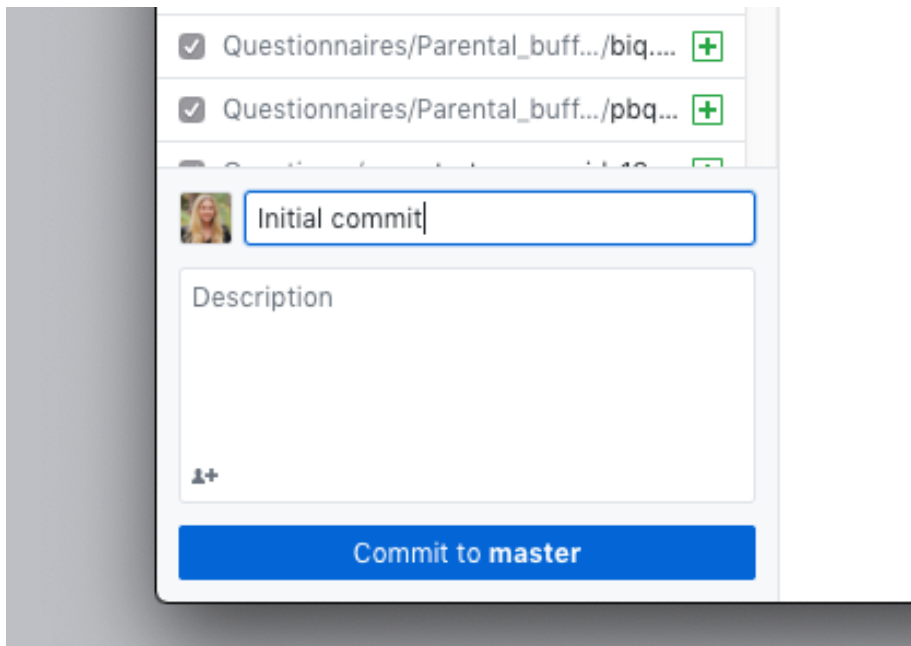
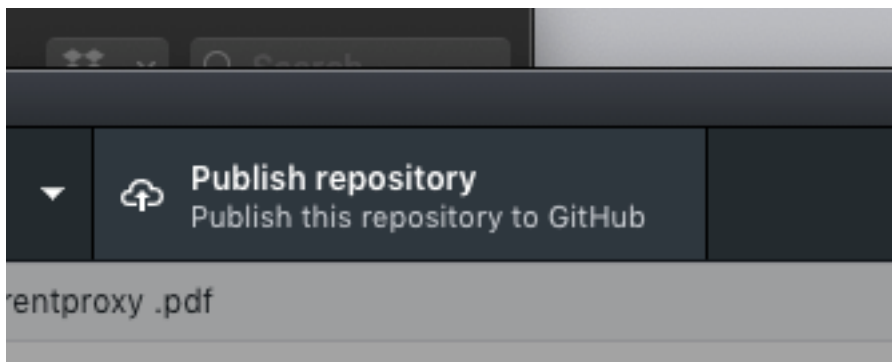
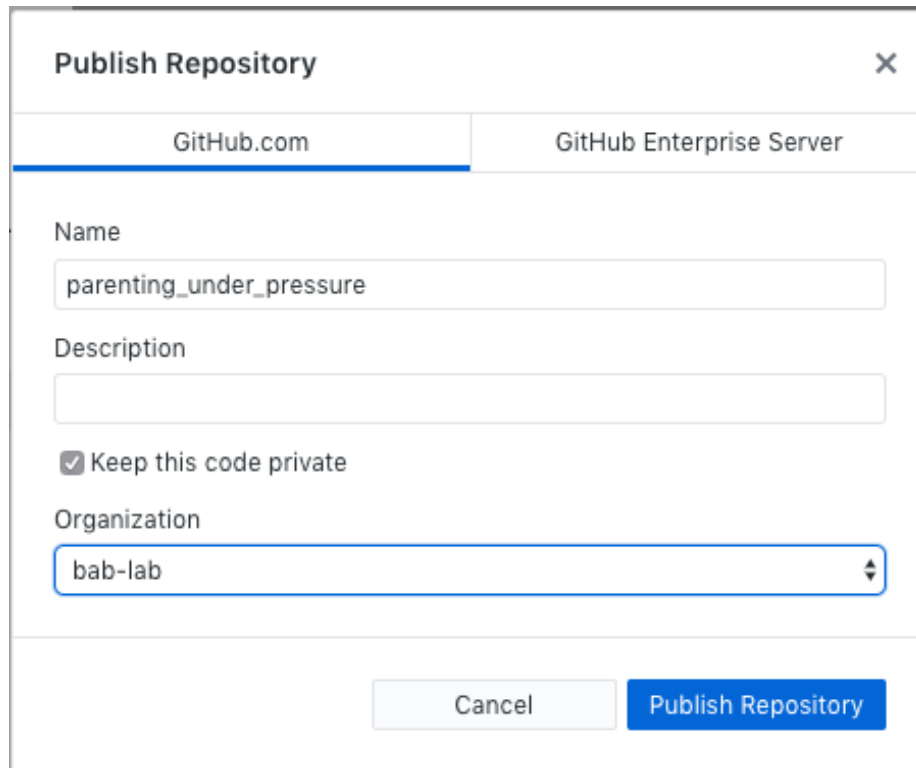


Figure 4.10:





The image shows a 'Publish Repository' dialog box with a close button (X) in the top right corner. It has two tabs: 'GitHub.com' (selected) and 'GitHub Enterprise Server'. The 'Name' field contains 'parenting_under_pressure'. The 'Description' field is empty. There is a checked checkbox labeled 'Keep this code private'. The 'Organization' dropdown menu is set to 'bab-lab'. At the bottom, there are 'Cancel' and 'Publish Repository' buttons.

Publish Repository X

GitHub.com GitHub Enterprise Server

Name
parenting_under_pressure

Description

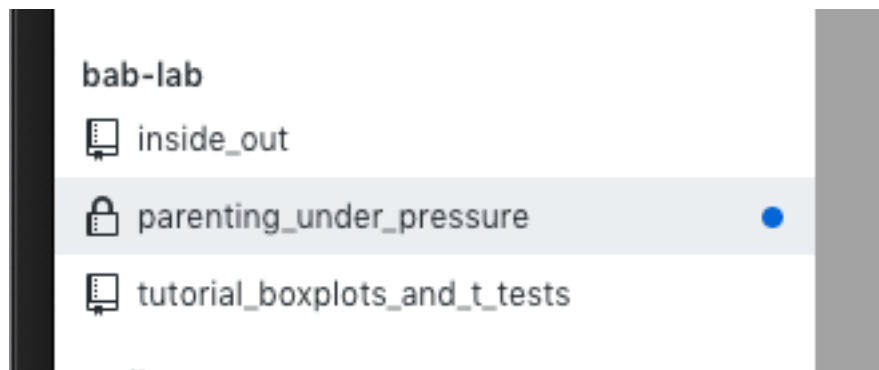
☒ Keep this code private

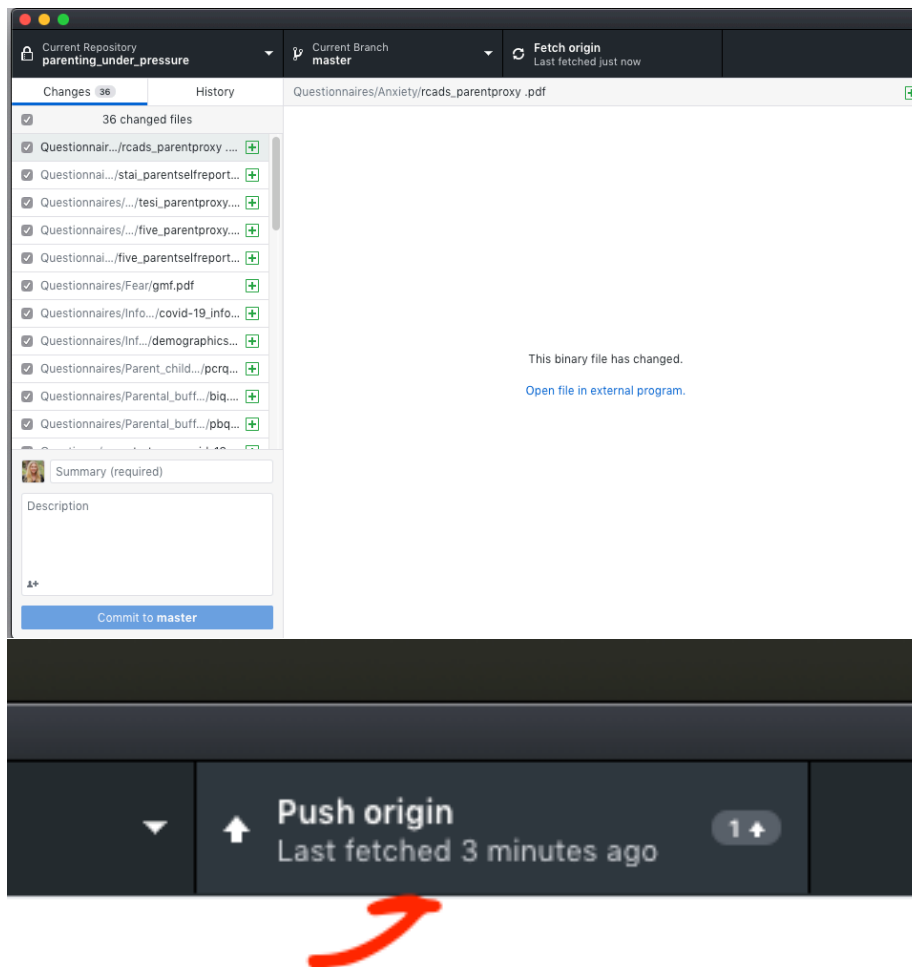
Organization
bab-lab

Cancel Publish Repository

8. Push the repository

- Push the changes that git has catalogued to the online GitHub





9. Go to GitHub online and you can see your repository with all of your files and latest commits

- Important to note that the README file will display as the main page for the repository

The screenshot shows a GitHub repository page for 'bab-lab / parenting_under_pressure'. The repository is private and was updated 29 seconds ago. It has 0 stars, 0 issues, 0 pull requests, 0 actions, 0 projects, 0 security issues, and 0 insights. The repository contains 2 commits, 1 branch, 0 packages, and 0 releases. The files listed are Questionnaires, REDCap_instruments, .gitattributes, and README.txt, all with initial commits. The README.txt file is open, showing the text 'Parenting Under Pressure Study - Notes'.

BAB Lab
 University of California, Los Angeles
<https://sites.lifesci.ucla.edu/psych-brainand...>
bablab.ucla@gmail.com

Repositories 7 Packages People 1 Teams Projects 1 Settings

Find a repository... Type: All Language: All Customize

parenting_under_pressure Private
 0 0 0 0 Updated 29 seconds ago

bab-lab / parenting_under_pressure Private Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Actions Projects 0 Security 0 Insights Settings

No description, website, or topics provided. Edit

Manage topics

2 commits 1 branch 0 packages 0 releases

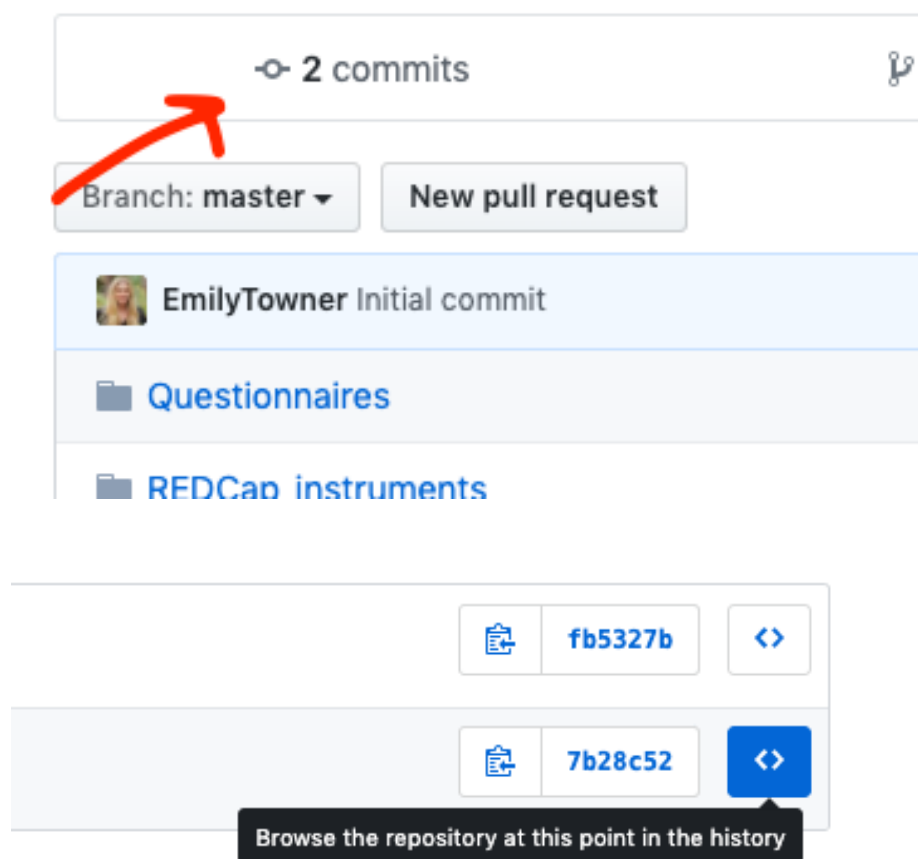
Branch: master New pull request Create new file Upload files Find file Clone or download

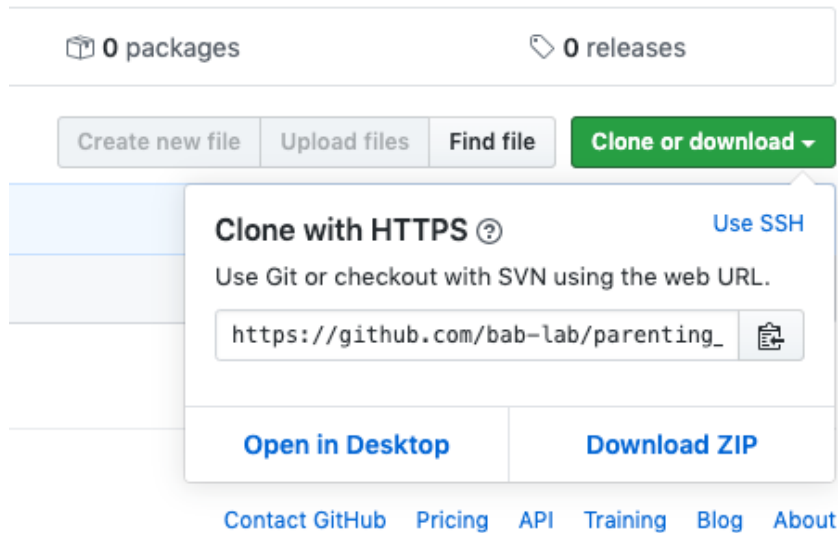
File	Commit	Time
Questionnaires	Initial commit	3 minutes ago
REDCap_instruments	Initial commit	3 minutes ago
.gitattributes	Initial commit	11 minutes ago
README.txt	Initial commit	3 minutes ago

README.txt

Parenting Under Pressure Study - Notes

- If you click on the commits button, you can browse your entire history of commits, explore the file, and download the version from any point in its history





11. Adding a .gitignore file will allow you to “skip” over certain types of files that you don’t want to commit
12. You can change the name of the root folder on your local directory - just be sure to use the “locate” function in GitHub Desktop to locate it
13. Make your repository public

For a more thorough description of Git, see [this article](#).

Vuorre, M., & Curley, J. P. (2018). Curating Research Assets: A Tutorial on the Git Version Control System. *Advances in Methods and Practices in Psychological Science*, 1(2), 219–236. <https://doi.org/10.1177/2515245918754826>

4.9.1 How to use GitHub like a Software Developer

The above method is great if you are working alone in your own repository, but it doesn’t work well for collaboration, because only one git repository can be linked to a folder at one time. GitHub has an integrated workflow for this.

Collaborative Workflow

1. Fetch
2. Code
3. Build / Knit
4. Commit

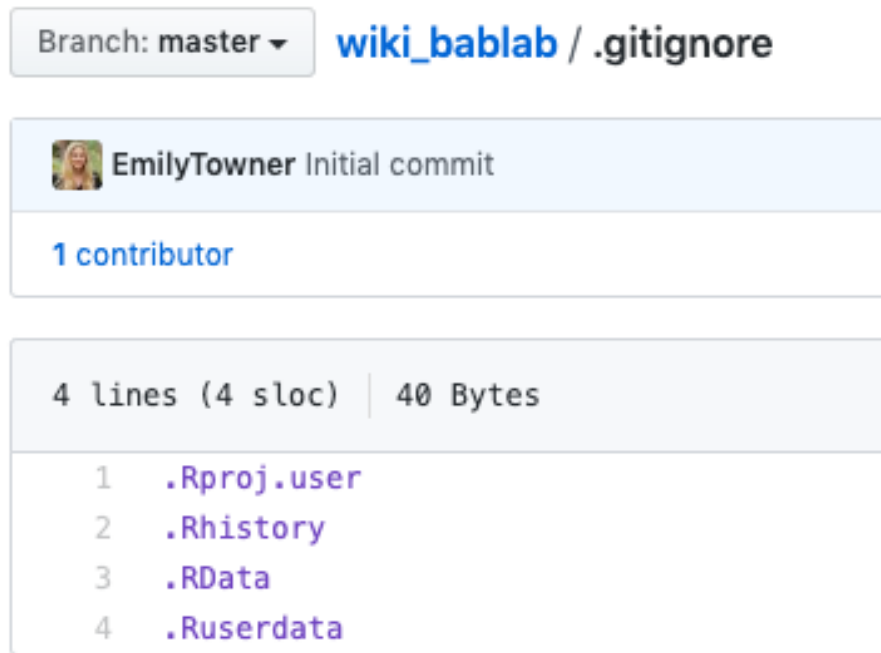


Figure 4.11:

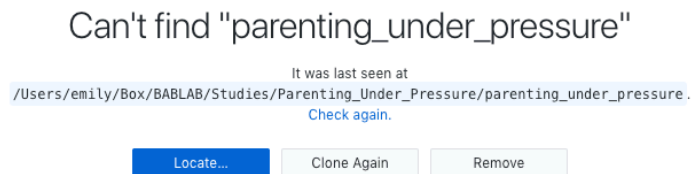


Figure 4.12:

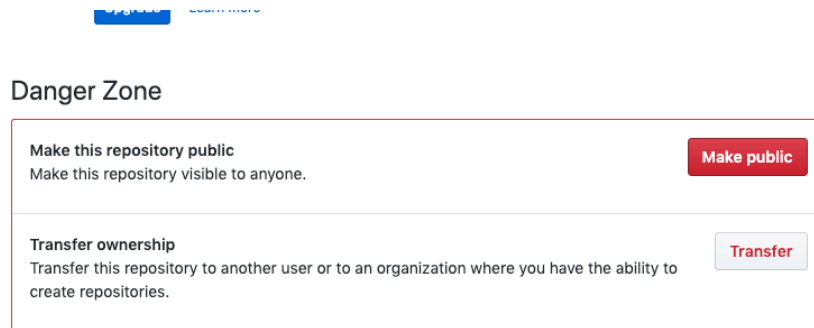


Figure 4.13:

5. Push
6. Pull
7. Merge
8. Repeat

1. The first step in a collaborative repository is to create your own branch on GitHub.com.
 - NEVER work directly in the master branch - you might break something
 - Name it after yourself (this will be your workspace)

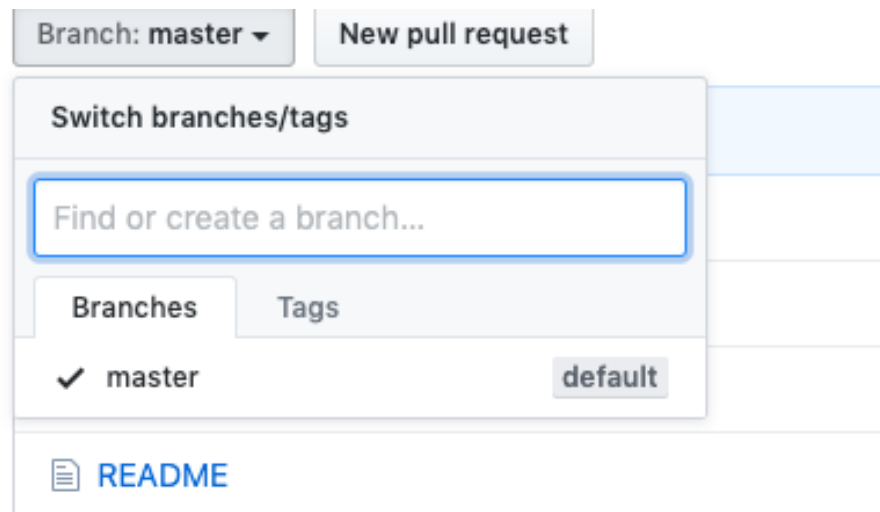


Figure 4.14:

2. Clone the repository from your organization into a local directory on your computer using GitHub Desktop
 - Anywhere is fine as long as it's not a shared folder (no shared Box, Google Drive, Dropbox, etc.)
 - Box, Dropbox, Google Drive folders are fine as long as you are the ONLY user

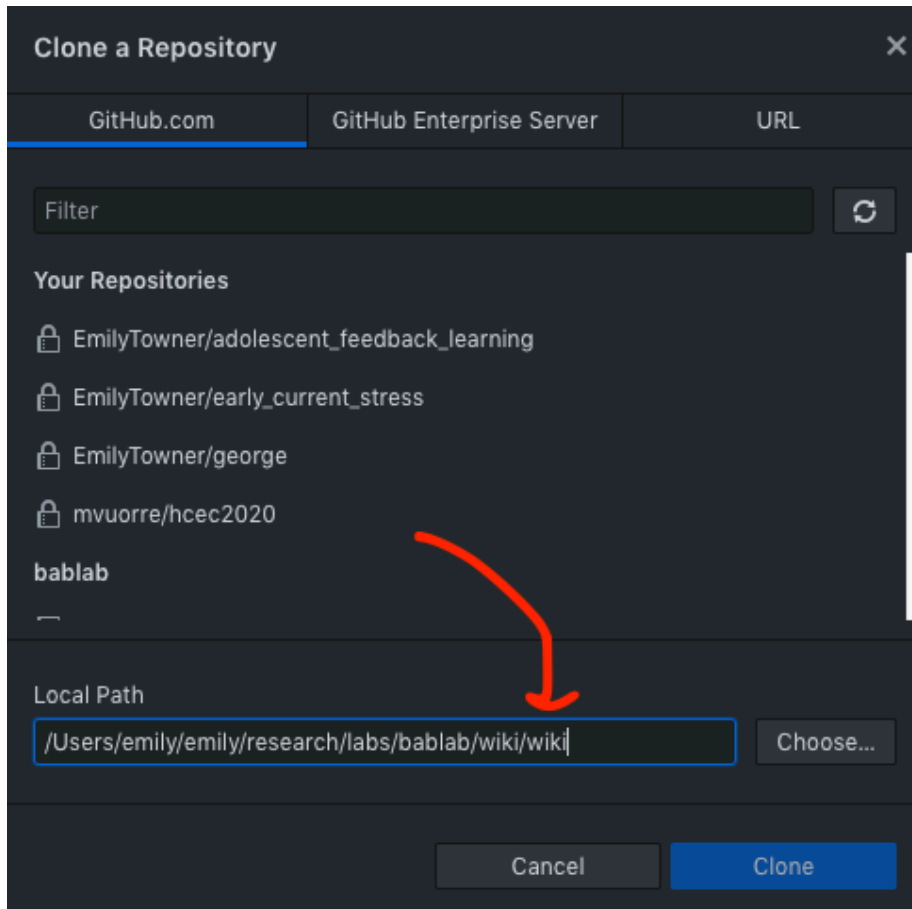


Figure 4.15:

3. Then navigate to current branch on GitHub Desktop and select your branch
 4. Now we start the 7 step cycle ->
-
1. Fetch origin - this fetches any changes that have been made since the last time you worked on the project

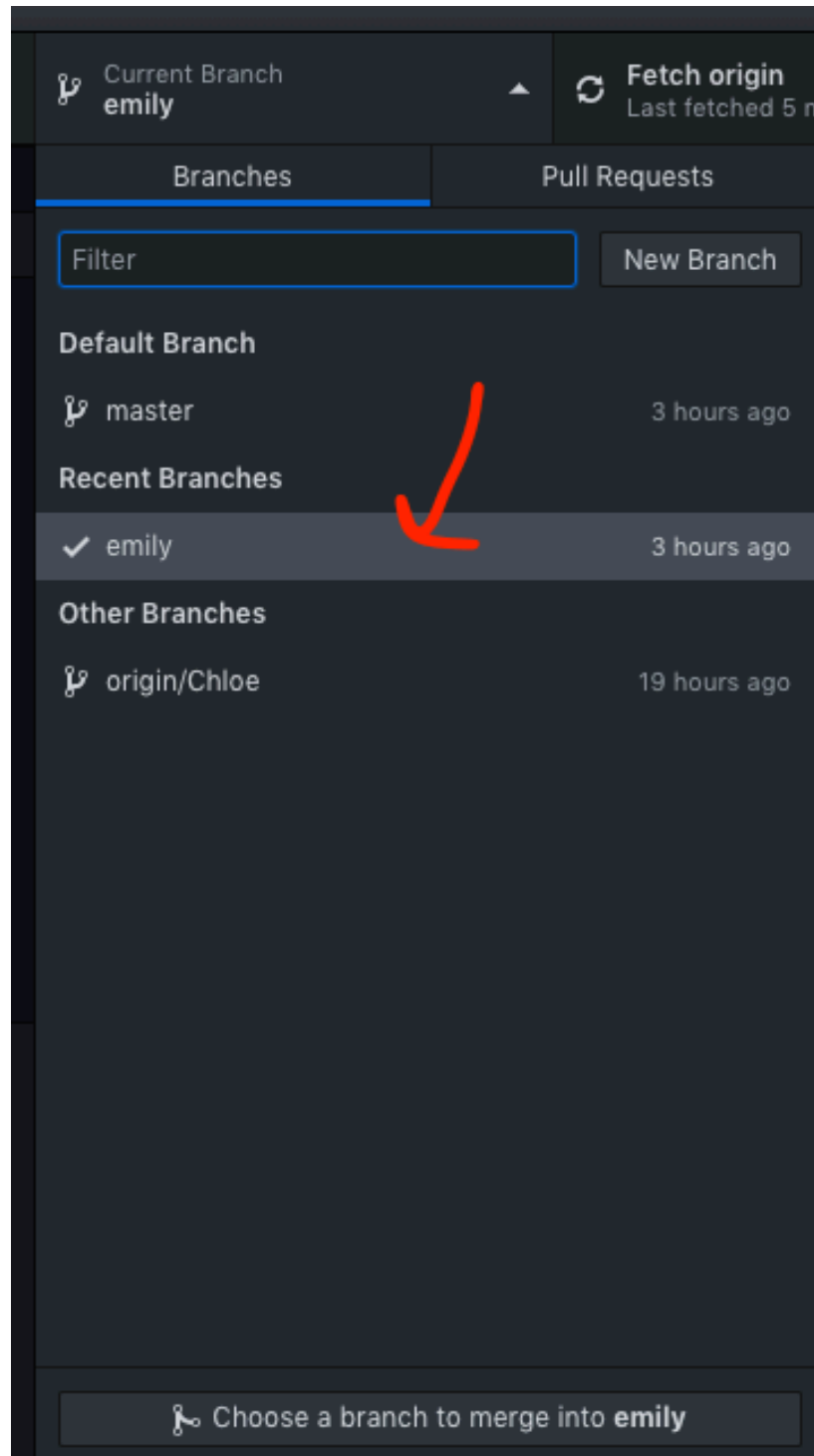


Figure 4.16:

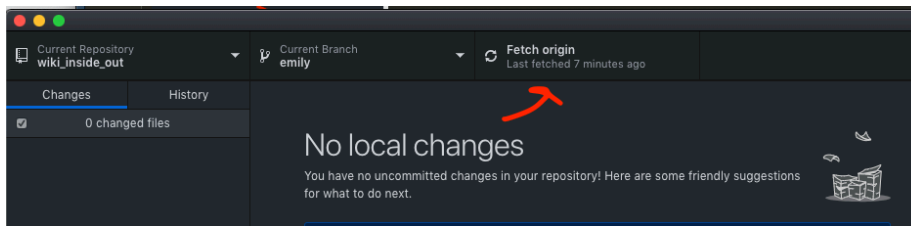


Figure 4.17:

2. Code - now you can edit the code, make/add/remove things etc.
3. Build/Knit - when you are done making your desired changes, click build or knit
4. Commit - Commit your changes using GitHub Desktop
 - This is kind of like saving the changes to your local computer change tracker
 - Make sure you put a comment in the box (no description necessary)
 - Make your comment useful to those reviewing it

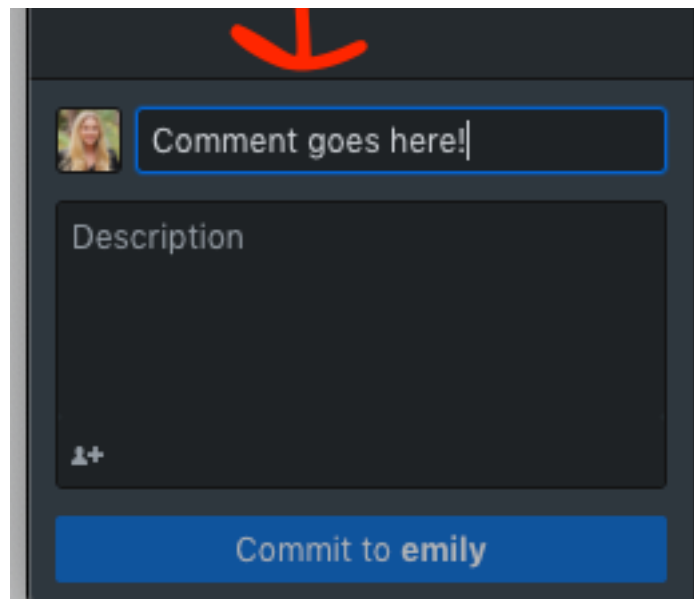


Figure 4.18:

5. Push - now push your changes to GitHub.com - this is like saving your local changes online

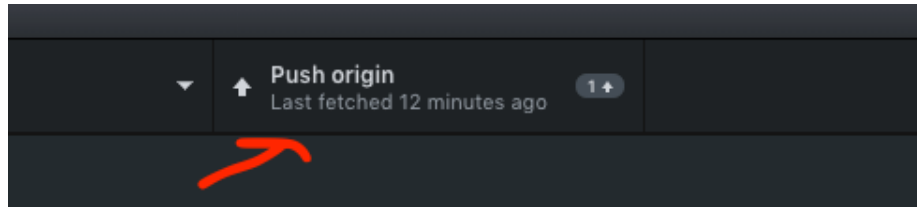


Figure 4.19:

6. Pull - Now, in order to integrate your changes with the master copy (which hosts the public facing ebsite) you need to submit a pull request.
 - This means that you want the owner of the repository to pull in your changes to the master branch
 - This will take you to GitHub.com, follow the instructions to create your pull request

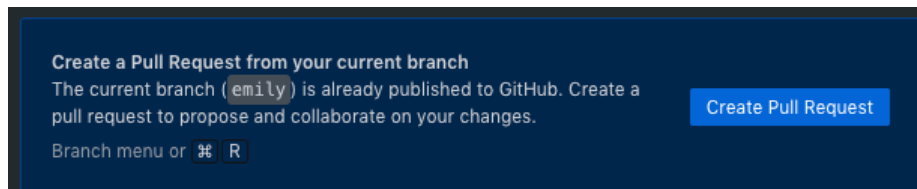


Figure 4.20:

7. Merge - on GitHub.com, the owner of the repository will then be able to review your pull request, fix any conflicts, and merge the branch into the master. Usually, this is pretty simple if there aren't any conflicts!
8. Repeat - now before you start new work, make sure to fetch origin and repeat the process.

4.10 OSF

1. Create a new project on OSF
2. Title it and choose storage location (US)
3. Navigate to the new project and click Add Ons
4. Enable GitHub
5. Link OSF to your GitHub account

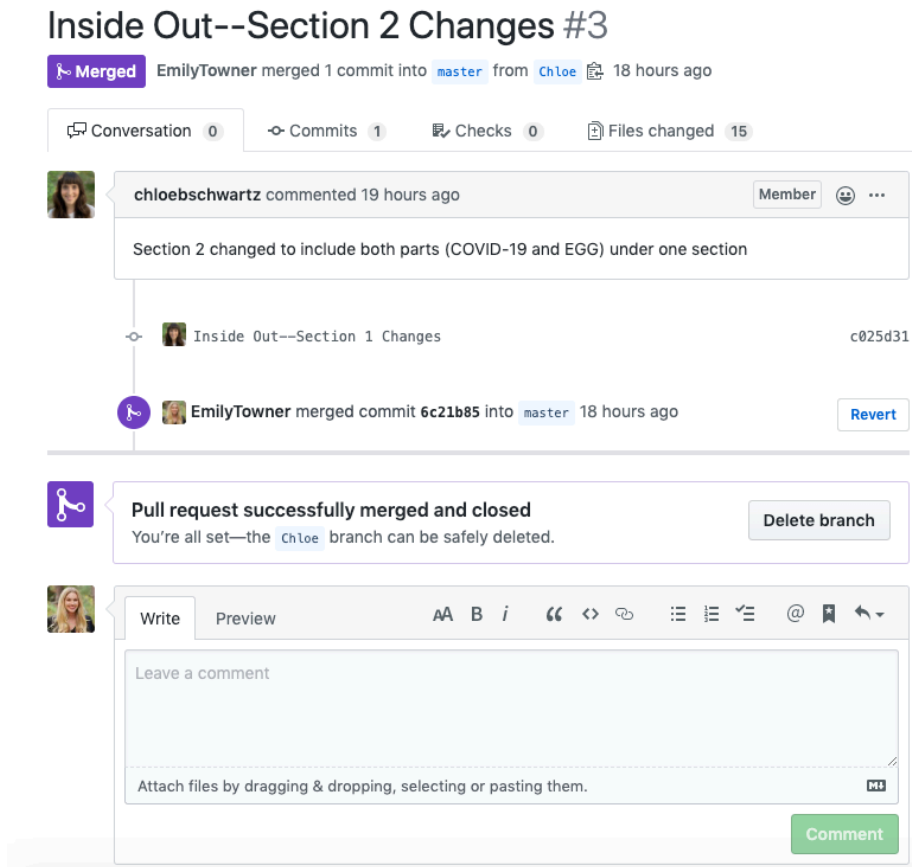


Figure 4.21:

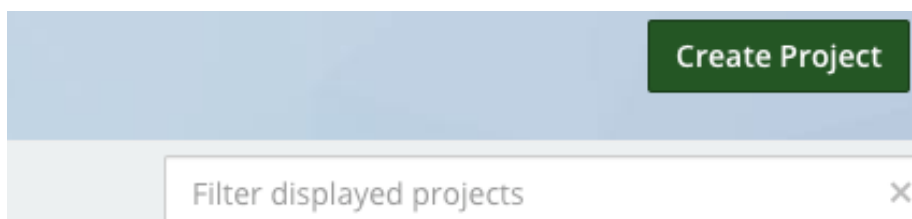
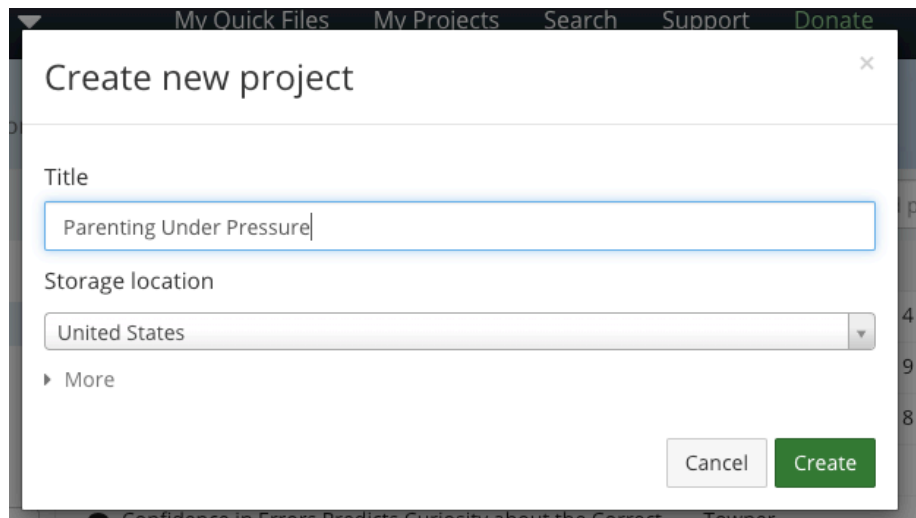


Figure 4.22:



My Quick Files My Projects Search Support Donate

Create new project

Title

Parenting Under Pressure

Storage location

United States

► More

Cancel Create

Figure 4.23:

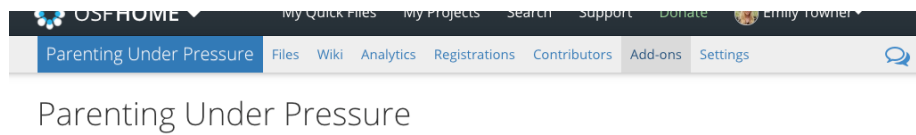


Figure 4.24:

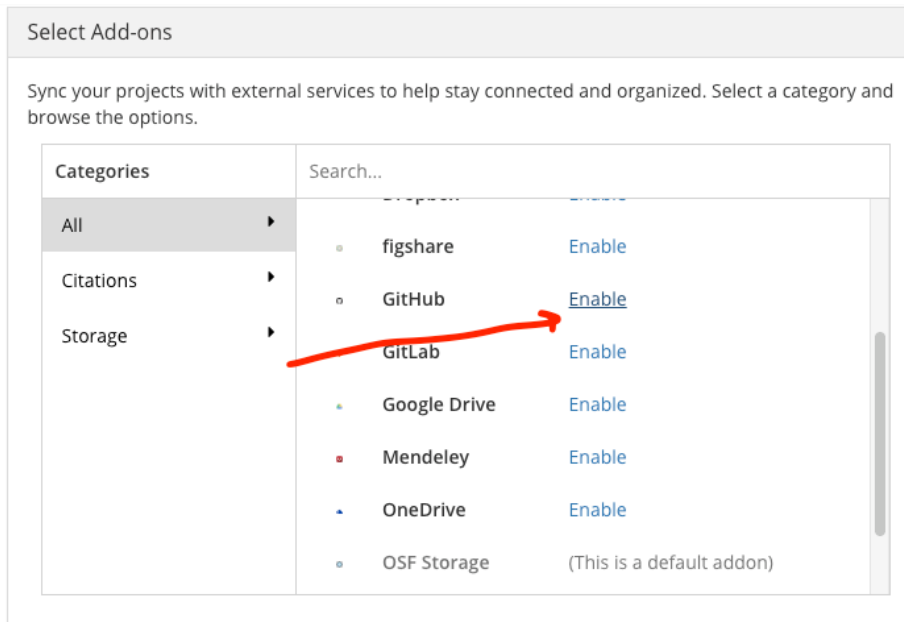
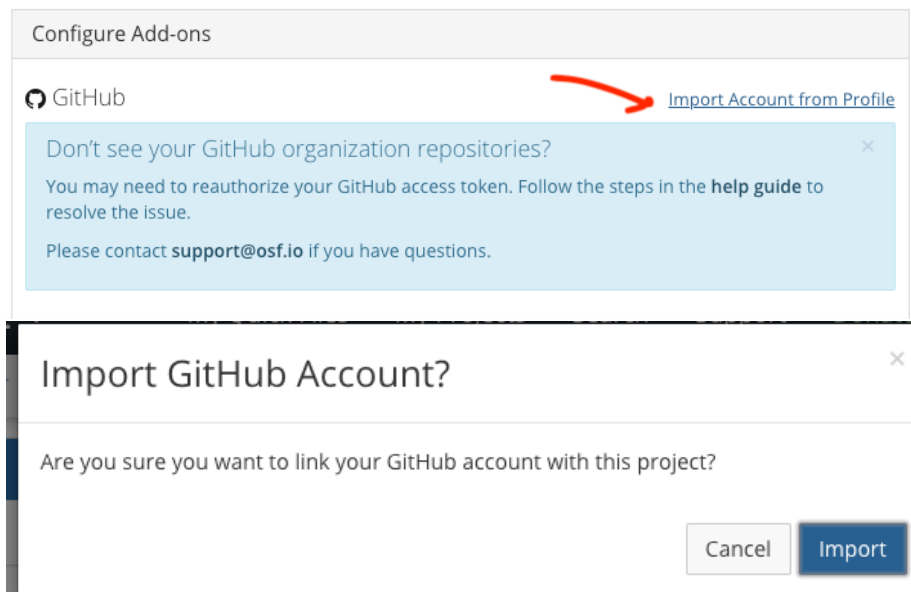



Figure 4.25:



6. Select the repository you want to link

Configure Add-ons

 GitHub authorized by [Emily Towner](#)

Current Repo:

✓ -----

bab-lab/parenting_under_pressure

bab-lab/inside_out

bab-lab/wiki_bablab

bab-lab/wiki_inside_out

bab-lab/tutorial_boxplots_and_t_tests

bab-lab/wiki_mind_brain_body

bab-lab/lab_manual

EmilyTowner/Adolescent_Feedback_Learning

EmilyTowner/Early_Life_Stress_and_Current_Life_Stress


mvuorre/hcec2020

EmilyTowner/George

es?

Follow the steps in t

Configure Add-ons

 GitHub authorized by [Emily Towner](#)

Current Repo:

bab-lab/parenting_under_pressure

↕

Save

Don't see your GitHub organization repositories?

You may need to reauthorize your GitHub access token. Follow the steps to resolve the issue.

Please contact support@osf.io if you have questions.

7. Now all of your files are visible in the OSF project
8. Make your OSF project public

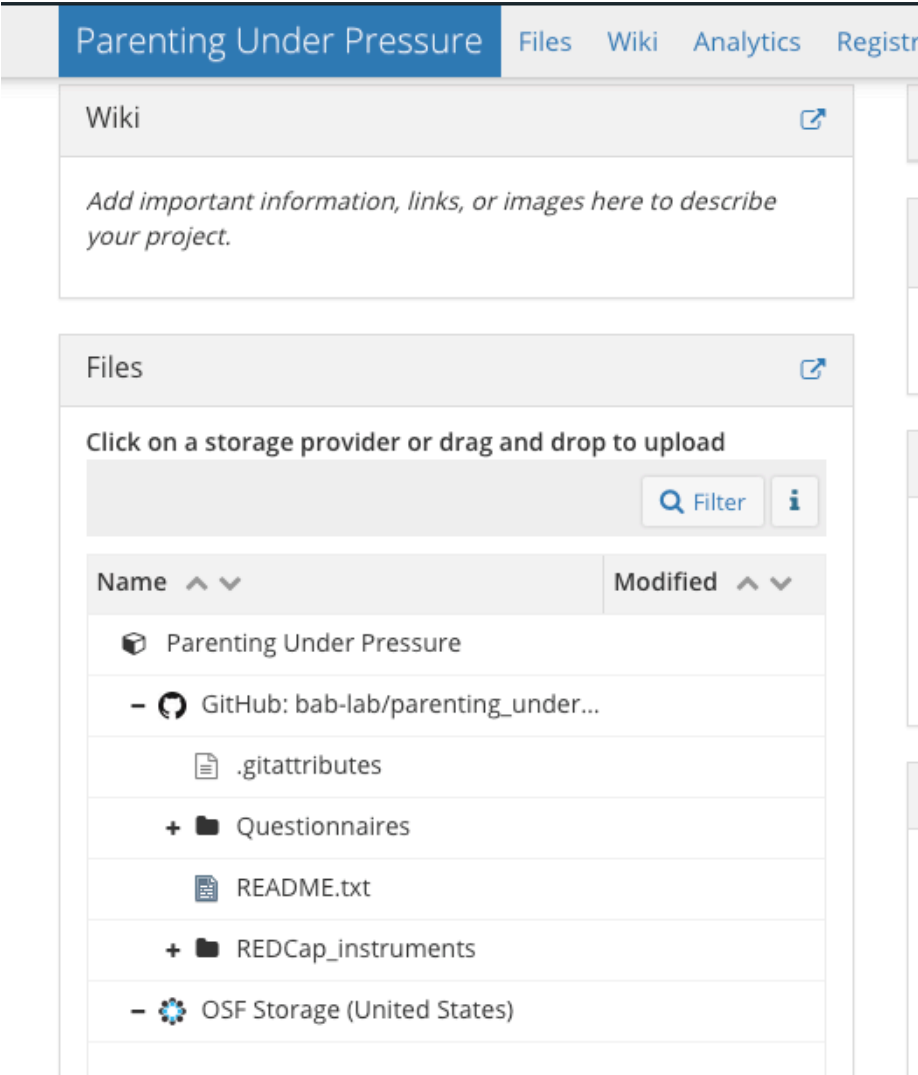


Figure 4.26:

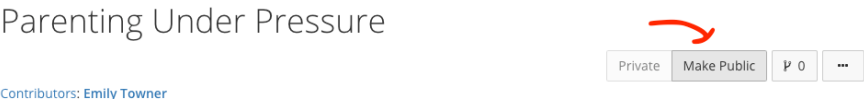


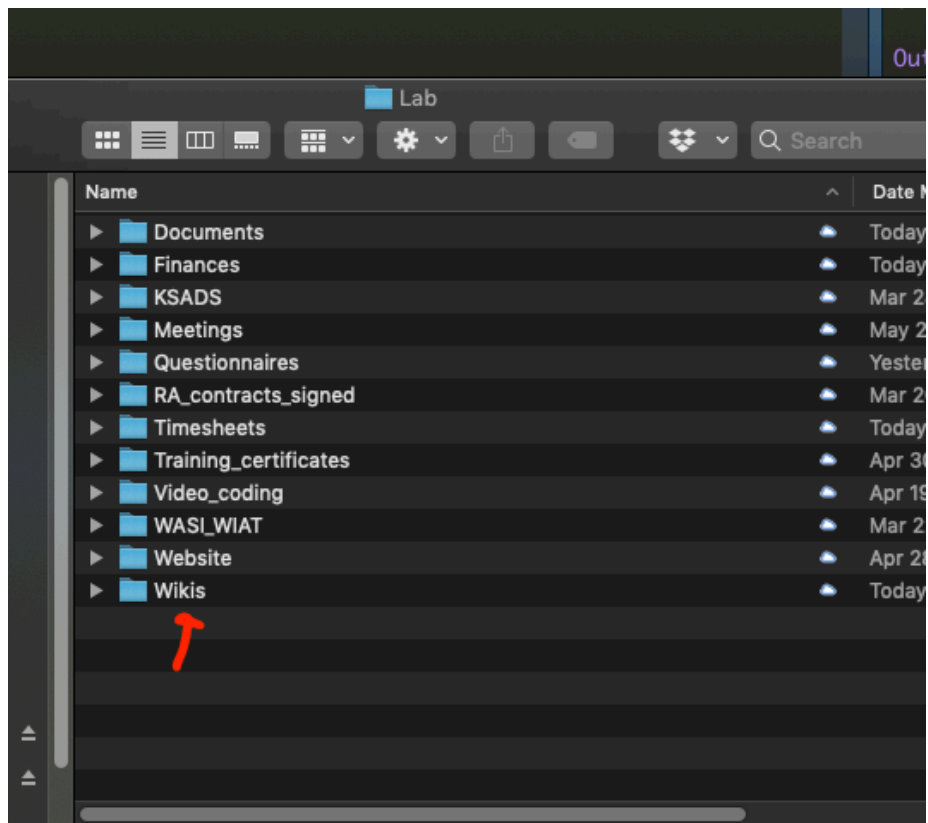
Figure 4.27:

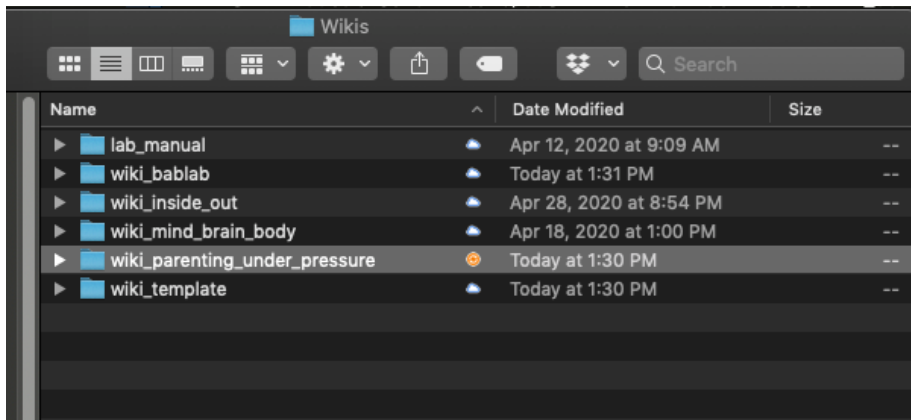
4.11 Wiki Creation

In order to properly build the wiki you will need to install LaTeX

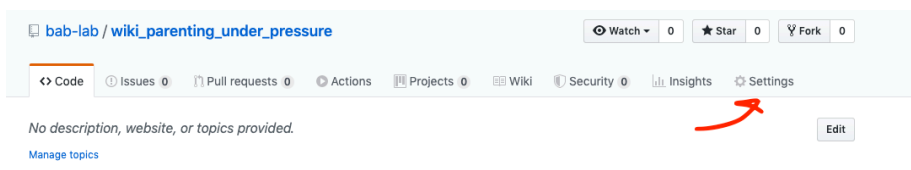
This is a huge installation, so leave plenty of time

1. Create a new project based on the wiki template (duplicate and rename for your project/study)





2. Rename any instance of "Template" to your project's title (open using RStudio)
 - .Rproj itself
 - __bookdown.yml file
 - __output.yml file
 - index.rmd file
3. Each .Rmd file creates a section
 - Index is always the home page
 - You can create subsections by creating new .Rmd files -
 - These files use markdown syntax
4. Create a new repository using GitHub Desktop for the wiki
5. Move all the files from your draft into the repository folder, commit, and push
 - Make sure to always BUILD before you commit and push so that all the necessary files are updated
6. Go into settings in GitHub online
 - Scroll down to GitHub pages
 - Select master/branch/docs folder to set your GitHub Pages site to the docs folder within your bookdown files



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more.](#)

None ▾

Theme Chooser

Select a theme to publish your site with a Jekyll theme using the master branch. [Learn more.](#)

Choose a theme

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project page

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages. [Learn more.](#)

None ▾

Select source

master branch

Use the master branch for GitHub Pages.

master branch /docs folder

Use only the /docs folder for GitHub Pages.

✓ None

Disable GitHub Pages.

Make this repository private

Hide this repository from the public

ll theme using the master b



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

✓ Your site is published at https://bab-lab.github.io/wiki_parenting_under_pressure/

Source

Your GitHub Pages site is currently being built from the /docs folder in the master branch. [Learn more.](#)

7. Put the link on OSF to the wiki

Parenting Under Pressure

Contributors: [Bridget Callaghan](#), [Chu, Kristen](#), [Emily Towner](#)


Date created: 2020-05-04 12:50 PM | Last Updated: 2020-05-04 01:50 PM

[Create DOI](#)


Category:  Project

Description: Add a brief description to your project

License: Add a license

Wiki 

Click to access the Parenting Under Pressure study [Wiki](#).

Citation 

Components [Add Component](#) [Link Projects](#)

Figure 4.28:

ECG

McLaughlin, K. A., Sheridan, M. A., Tibu, F., Fox, N. A., Zeanah, C. H., & Nelson, C. A. (2015). Causal effects of the early caregiving environment on development of stress response systems in children. *Proceedings of the National Academy of Sciences*, 112(18), 5637–5642. <https://doi.org/10.1073/pnas.1423363112>

EGG

Yin, J., & Chen, J. D. Z. (2013). Electrogastrography: methodology, validation, and applications. *Journal of Neurogastroenterol Motil*, 19(1), 5-17. <http://dx.doi.org/10.5056/jnm.2013.19.1.5>

GSR

Braithwaite, J. J., Watson, D. G., Jones, R., & Rowe, M. (2013). Guide for analysing electrodermal activity (EDA) & skin conductance responses (SCRs)

for psychological experiments. Technical report: selective attention & awareness laboratory (SAAL) Behavioural Brain Sciences Centre, University of Birmingham, UK. 1-42. <https://www.biopac.com/wp-content/uploads/EDA-SCR-Analysis.pdf>

Martin, I. (1963). Delayed GSR conditioning and the effect of electrode placement on measurements of skin resistance. *Journal of Psychosomatic Research*, 7(1), 15-22.
<https://www.sciencedirect.com/science/article/abs/pii/0022399963900473>

GitHub

Vuorre, M., & Curley, J. P. (2018). Curating Research Assets: A Tutorial on the Git Version Control System. *Advances in Methods and Practices in Psychological Science*, 1(2), 219–236. <https://doi.org/10.1177/2515245918754826>