Flight Tracker Consortium Meeting

November 1, 2023

www.edgeforscholars.org

𝕏 @EdgeForScholars

https://redcap.link/flight_tracker

Meeting Agenda

What's New?
Major: Scholar Portal Release
Multi-Site & International Collaborations
PubMed API Key; Easier Alumni Association Collection

Deep Dive: Profiling a Scholarly Group

What's Next?
Better Relating Grants with Publications
Honors & Awards Survey

Office Hours with Rebecca & Scott

FLIGHT
TRACKER
for scholars

What's New?

Major v6 Release: Scholar Portal

- A way for scholars to access their own Flight Tracker data
- Can't access others' private data
- Scholars can access through a REDCap login
- After three rounds of local releases & feedback, we're releasing broadly
- Graphics for tenure, promotions, job applications, and self-awareness
- Detailed exploration in August's consortium meeting
  https://redcap.vanderbilt.edu/plugins/career_dev/help/video.php?video=2023-08-02

What is the Scholar Portal?

- Scholars access via one link
- Matches a user to **ALL** your server's Flight Trackers
  - View graphics & data
  - Enter surveys
  - Mentoring agreements
  - Bulletin Board
- 100% Optional: You don't have to tell your scholars about it

[Live Demo](#)

How You Can Spoof Scholars

- Open their Scholar Profile & click the "spoof" link
- Takes you to Scholar Portal page as if you were that scholar
- Only works for your project's users & for your own project's data – i.e., you can't snoop on other projects

How Scholars are Authenticated

- **Goal:** Avoid having to match by user-id… This would require entering user-id's into Flight Tracker
- Match by name & email:
  - Match by name, but is this the right person?
  - **List 1:** Uses the emails in the scholar's Flight Tracker record - general email and personal email
  - **List 2:** Compares emails to ones REDCap has on file for the user that's logged in
  - If an email matches between lists 1 & 2, user can access data
- Tricky! Problems could be encountered here

How to Give Scholars Access

1. Ensure that the scholar has a REDCap login

2. Send email with link:
   - Either via Scholars menu → Configure an Email page
   - Or by copy/pasting the link from Home page into email

3. That link will give them access to **EVERY** Flight Tracker project's data, not just your own!

Multi-Site Collaborations

Great for collaborative consortia or multi-site research networks

Same idea as with individual scholars co-authoring papers together

The more groups, the better!

International Collaborations

Number of Collaborative Papers

Great for Global Health projects

Numbers on countries are counts of papers

You can export data in CSV
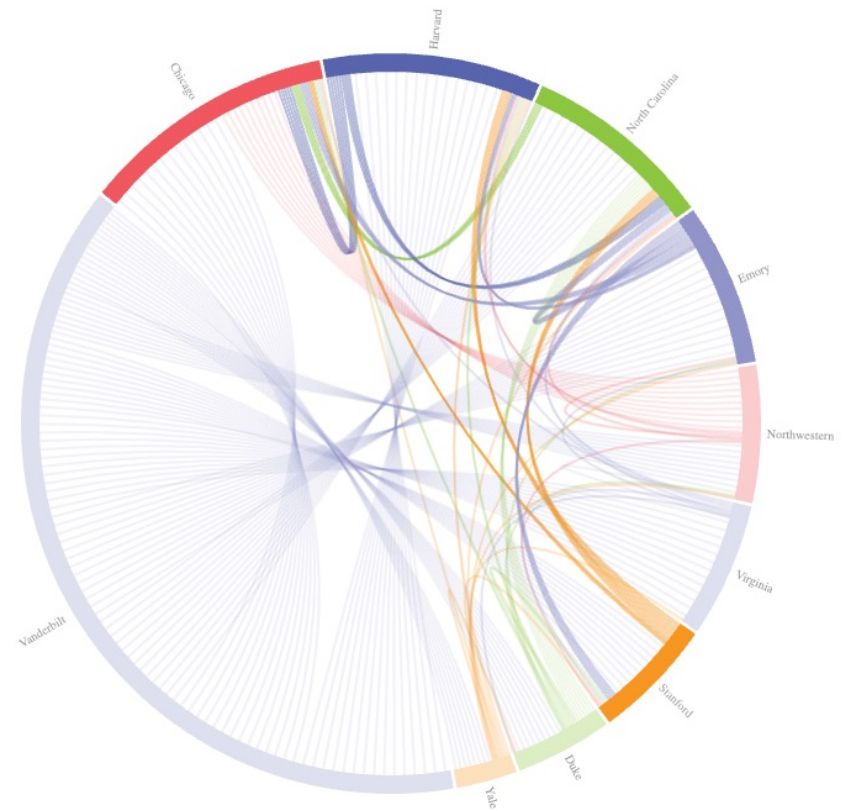
Multi-Site Collaborations: Live

- **Pubs menu → Multi-Site Collaborations**
- Limited to 2014 and later due to limits in the PubMed data
- Checking the Author Affiliations for institutions and countries

[Live Demo](#)
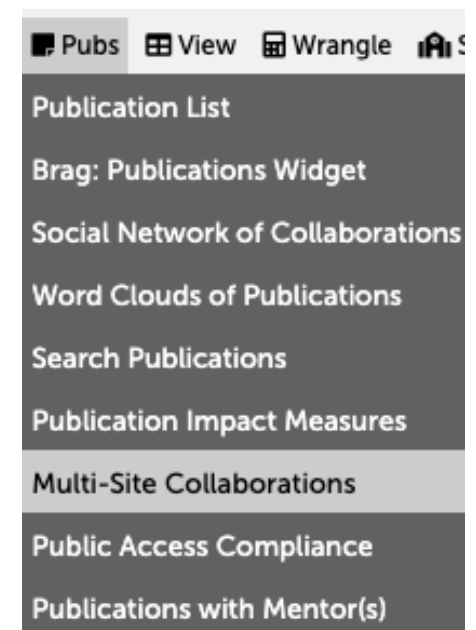
PubMed API Key (Optional)

- The PubMed sweep is very time-consuming
- On Saturdays – and if necessary, Sundays
- PubMed limits to 3 queries per second
- Discovery: Free API key from NCBI via eRA Commons account
- API key raises limit to **10** queries per second: 3x speed
- Optional: Good for big projects & servers with many projects
- [All Vanderbilt projects have been automatically handled]
- **General menu → Configure Application, in Publications**
- https://www.ncbi.nlm.nih.gov/books/NBK25497/#:~:text=API%20Keys

Easier Alumni Associations

- Flight Tracker collects Alumni Associations URLs in surveys
  - Great to use in celebratory announcements 🎉
- But… who wants to look up a URL?
- Now, keeping a central database of Alumni Associations & URLs
- Searchable "autocomplete" dropdown on surveys
- Thanks to **Verna Wright & Mary McGrath**!

Deep Dive

Profiling a Scholarly Group

Introduction to Scholarly Profiles

FLIGHT TRACKER *for scholars*

- What is a scholarly profile?
- When is one requested?
- Seven steps to produce
  - Generating numbers
  - Generating graphs
- Hand off
- Quick link to a guide

What is a Profile?

- At Vanderbilt, we've used Flight Tracker to highlight the successes of a group of scholars

- A document with graphs and numerical figures to show how effective a group is

- Interpretations are present, too, because most people aren't familiar with the looks Flight Tracker gives at scholarly productivity

- Typically, heavy on publications

- Turnaround in 1-2 weeks

When is a Profile Requested?

- Need for internal funding for new <u>administrative support position</u> around a topic
- A retreat for a <u>research institute/center</u> – informative slides
- External funding renewal – showcase effectiveness to <u>funding agency</u>
- Highlight collaborations of <u>multi-site consortia</u>

- Usually for a group that's **new** to Flight Tracker

Steps

1. Send out a template for a CSV to get names & institutions
2. Create a new REDCap/Flight Tracker project with the CSV
3. Click Fetch All Data Tonight – on Flight Tracker Home page
4. Wait 24 hours
5. Wrangle Publications
6. Identify holes in data and address problems – re-run if needed
7. Generate figures, graphs & final document

Quick & Easy First Steps

1. Send out a template for a CSV to get names & institutions
   • Same template as on Add a New Scholar page
   • Names & institutions are only key piece

2. Create a new REDCap/Flight Tracker project with the CSV

3. Click Update All Data Tonight on Flight Tracker Home page

4. Wait 24 hours

Flight Tracker Central
v6.0.0
Watch Your Scholars Fly - Flight Tracker Community Support
from Edge for Scholars
Click to Share the Scholar Portal Link with Your Scholars

MSTP (Copy) - T32GM007347

ⓘ Status

Dept. of Ed. Grants	Last ORCID Download
Today	Today
Last Summary of Data	Last PubMed Download
2 Days Ago	5 Days Ago
Last NIH RePORTER Download	Last LDAP Directory Pull
3 Days Ago	3 Days Ago
Last NSF Download	Patents View Download
3 Days Ago	2 Days Ago

Click to Run All Updates Tonight
(Otherwise, updates will run over the course of the week.)

Show Update Schedule

✉ Celebrations

A regular email that updates readers about n

Comma-Separated Receipient Email Address(es) scott.j.pea

Setting Name: Email Setting Name
Frequency: Weekly ⌄
Group: All Scholars ⌄
Content: New Grants ⌄
Restrict Pubs to Cited Grants: Grant(s) Cited
(Leave blank for no restrictions.)
Add Setting

Labor-Filled Final Steps

5. Wrangle Publications

6. Identify holes in data and address problems – re-run if needed

7. Generate figures, graphs &
    final document

Takes 4-8 hours of manual work

• Slower on first time; speeds up after first time

• Depends on size of group & number of publications
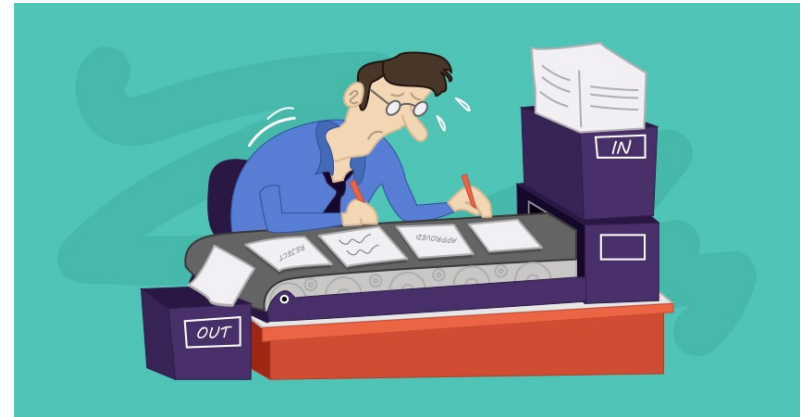
Generate Overall Numbers

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for scholars

- Number of Scholars/Records
- Grants – number with dollars
  - **Grants menu → All-Time Grant Budgets**
- Publications – **Dashboards menu → Publications** – select different pages
  - Original Research papers – iCite designation
  - Number of Journals
  - Citations by others – total, mean, median
  - First-author, last-author papers
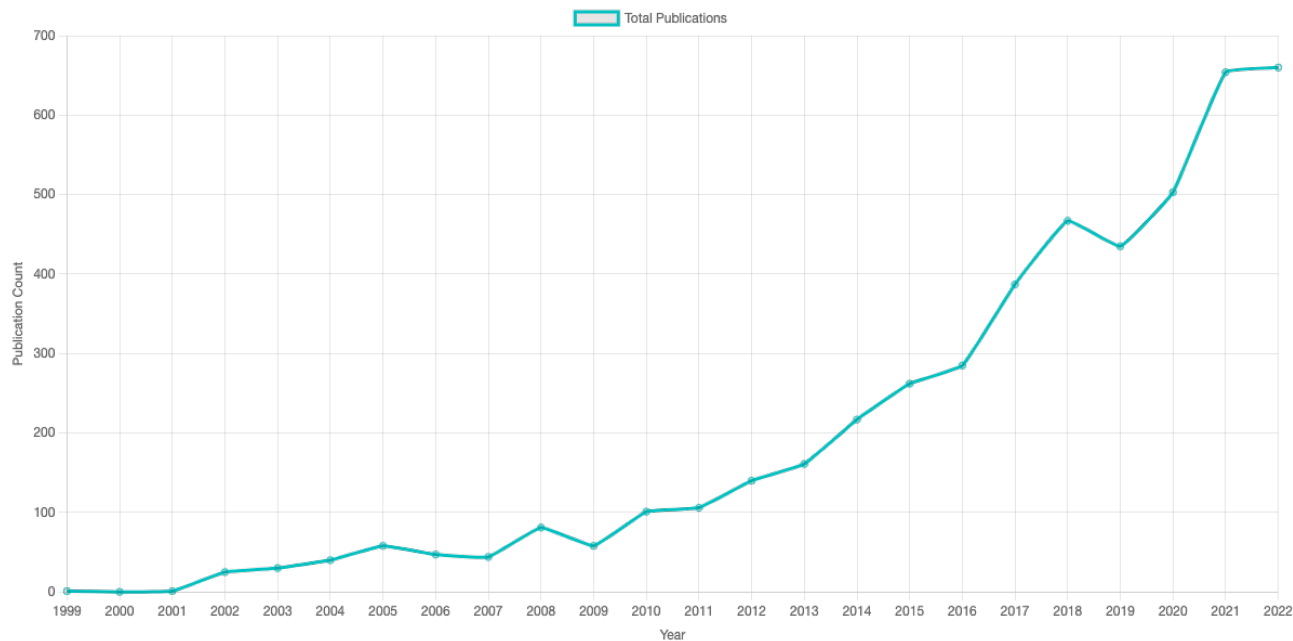
Generate Graphs

- Publications Over Time

- Social Network Graph of Co-Authorship

- Word Clouds – associated grants, MeSH terms, journals

- Impact Factor Histogram – Relative Citation Ratio

- Multi-Site Collaborations – **new**

- International Collaborations – **new**

Publications Over Time

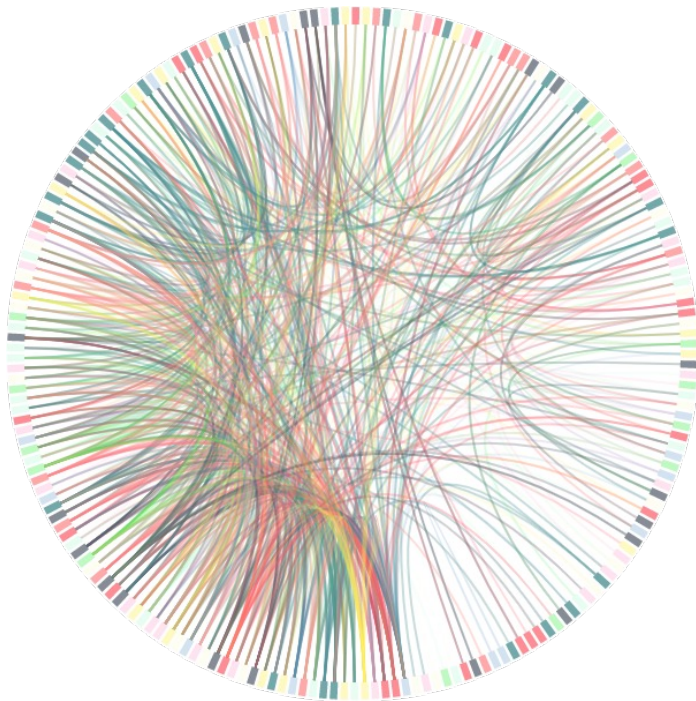Dashboards menu → Publications → Publications By Year

Social Network Graph of Collaborations

Pubs menu
→ Social Network Graph of Collaborations/Co-Authorships
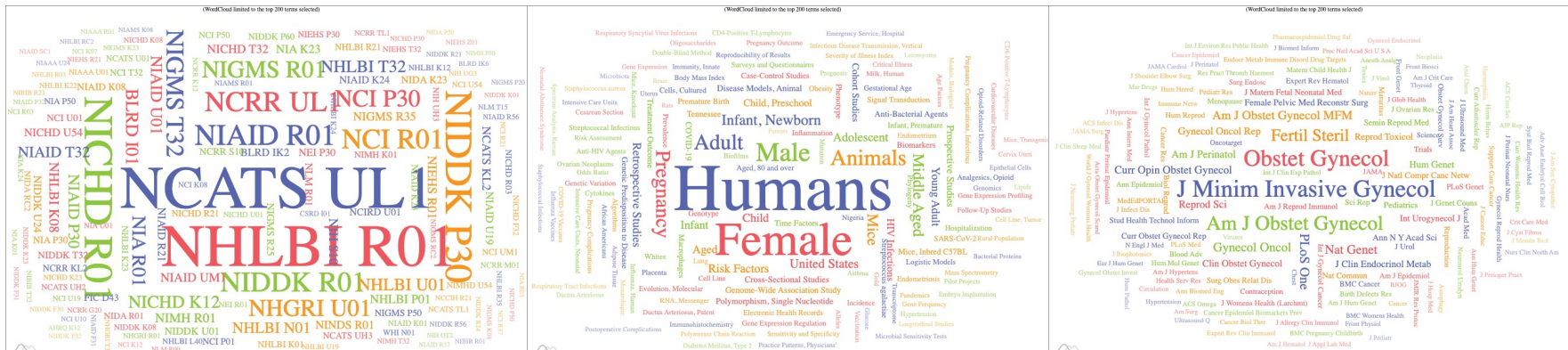

- I usually use a graphics program like Photoshop or GIMP to remove the names to anonymize

- Also, include some numbers:
  - Collaborations & collaborators
  - Total papers & citations
  - Collaborations per collaborator
  - High performers

Publications Over Time

Pubs menu → Word Clouds of Publications
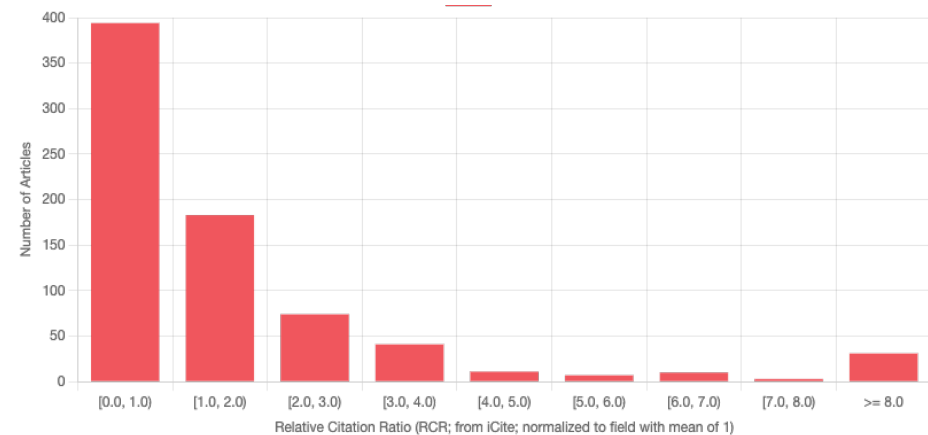
Grants Cited, MeSH Terms & Journals

Impact Factor Histogram

Pubs menu → Publication Impact Factors

- Number of papers with RCR >= 8.0
- Median & mean of RCRs
- Number of papers with RCR
- Can include Altmetric Score, but…
  - Less compelling graph
  - Less important to NIH
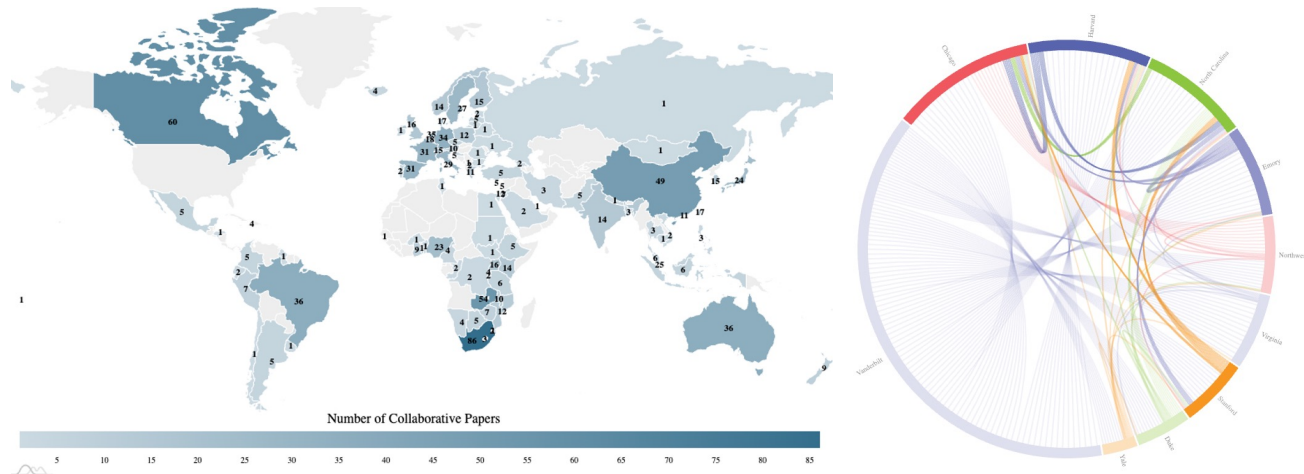- A handful of High-Performing papers – at bottom

Multi-Site & International Collaborations

Pubs menu → Multi-Site Collaborations

New in v6.0.0

For details, see slides earlier in presentation


Number of Collaborative Papers

Hand Off

- Analysis performed by a "Flight Tracker expert"
- Handed off to administrators & PI
- Let the group leaders make the decision over what to include
- Put in document to allow for easy copy/paste - no PDFs

Summary of Scholarly Profiles

FLIGHT TRACKER *for scholars*

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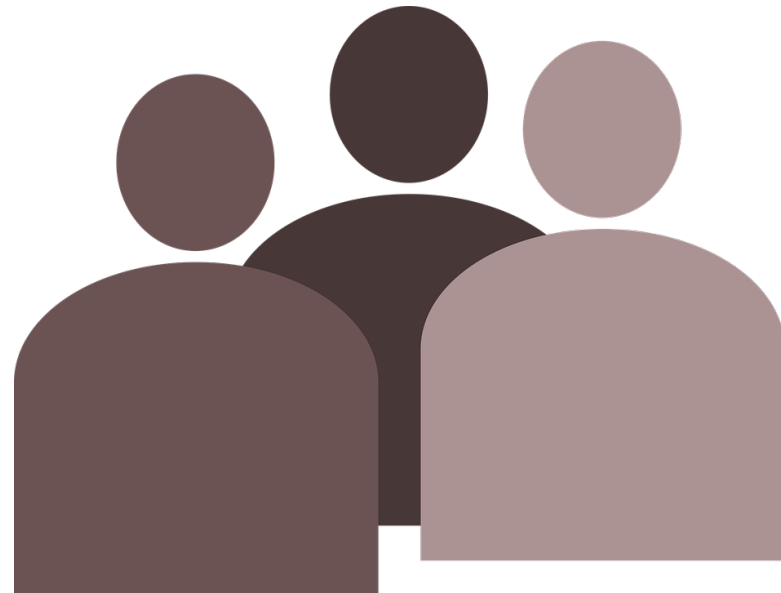
Quick guide under "Additional Links" of Flight Tracker website
https://redcap.link/flight_tracker

Upcoming Deep Dives

December: Slicing & Diving Data with Cohorts
January: Tricks of Publication Wrangling
February: Maximizing Value on a New Project

What's Next?

Relating Grants with Publications

- Publications → Grants: In PubMed & Public Access Compliance
- **But what about Grants → Publications?**
- Two pages of recommendations thanks to a committee in May led by Shardae Osuna of Southern California
- Goals:
    - Internal Pilot Grants: Linking pubs & grants
    - Improving workflow
    - <u>Project-based tracking</u>, not only person-based
- Possible tools: Publication Wrangler & Scholar Portal

Honors & Awards Survey

- For the Scholar Portal, we want a way for scholars to tell us when they receive a new honor, award, internal or external committee post, etc.

- Aims: New REDCap Survey & improved support structure

  - Committee meeting **tomorrow** – Thursday, November 2, at 12-1pm Central Time

  - Anyone is welcome to give input! <u>If you want to join the meeting, please provide your email in the chat</u>

Flight Tracker Community

New Support Forum

"Better than Email" - Ask me for an Account in the Chat

https://redcap.vanderbilt.edu/flighttracker/

Troubleshooting Call

Monthly Troubleshooting Call – optional

Third Wednesday at 1pm Central Time
October 18, 2023

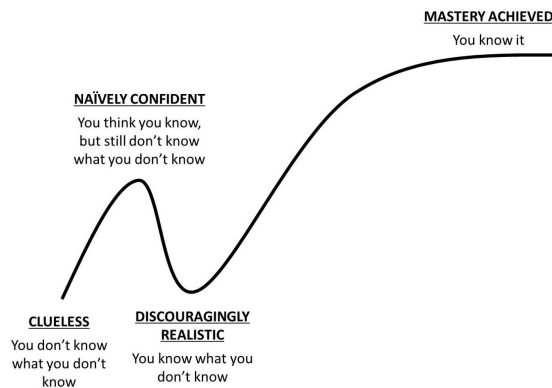***Driven by Your Questions & Problems***
All are welcome!

Ask to join our email list in the chat for an invitation…

Newbie Call

FLIGHT TRACKER *for scholars*

Just getting started with Flight Tracker?

MASTERY ACHIEVED
You know it

NAÏVELY CONFIDENT
You think you know,
but still don't know
what you don't know

CLUELESS
You don't know
what you don't
know

DISCOURAGINGLY REALISTIC
You know what you
don't know

There's a definite learning curve.

Move up more quickly by joining
November's "newbie" call.

Tuesday, November 14, at 11am Central Time

(Tuesday, December 12, at noon Central Time)

Leave your email in the chat to receive an invitation

Blogging about Flight Tracker

- Want to get your name out there nationally? We have a 38,000-person email list.

- New faculty or post-docs are always welcome to the email list.

- Do you have something interesting to share about your experiences with Flight Tracker?

- Ask me about making a new blog post.

Office Hours with ~~Rebecca &~~ Scott

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