Flight Tracker Consortium Meeting

April 7, 2021

EDGE FOR SCHOLARS

Meeting Agenda

FLIGHT TRACKER for scholars

NIH RePORTER gets an Update…

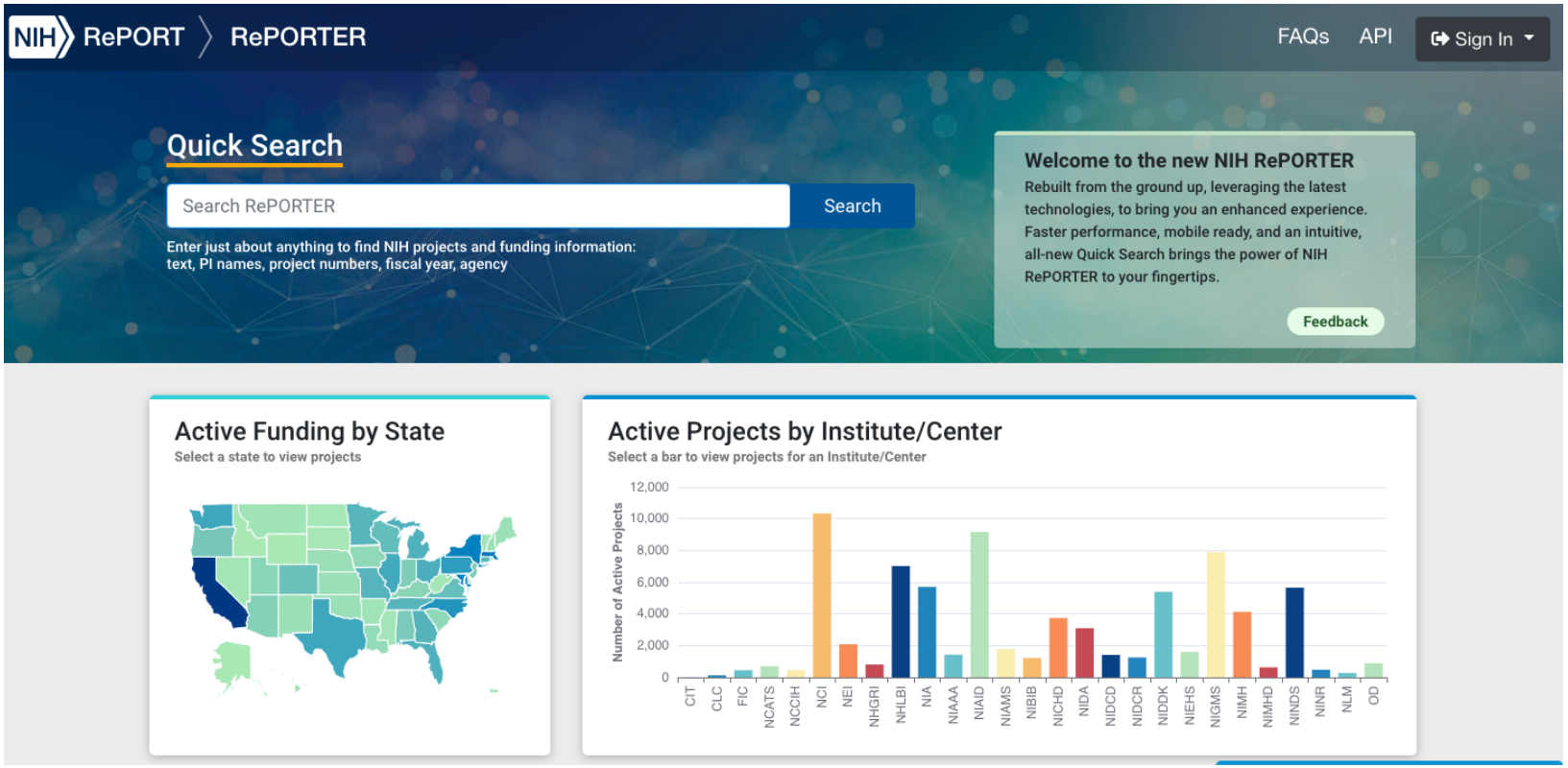
…and so does Flight Tracker

What's New & What's Next?

Office Hours with ~~Rebecca &~~ Scott

NIH RePORTER Update

FLIGHT TRACKER for scholars



NIH RePORTER Update

FLIGHT TRACKER for scholars

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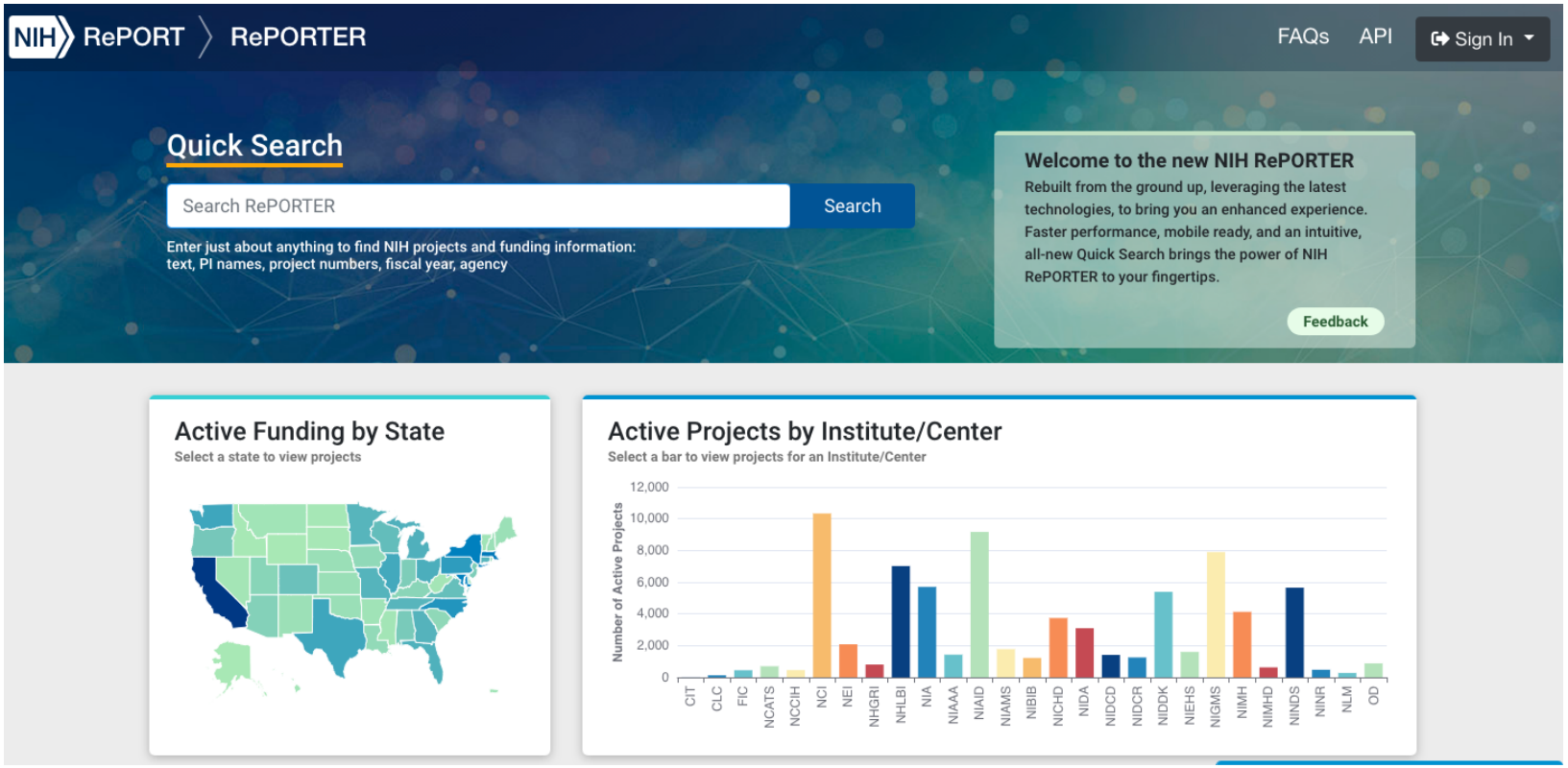

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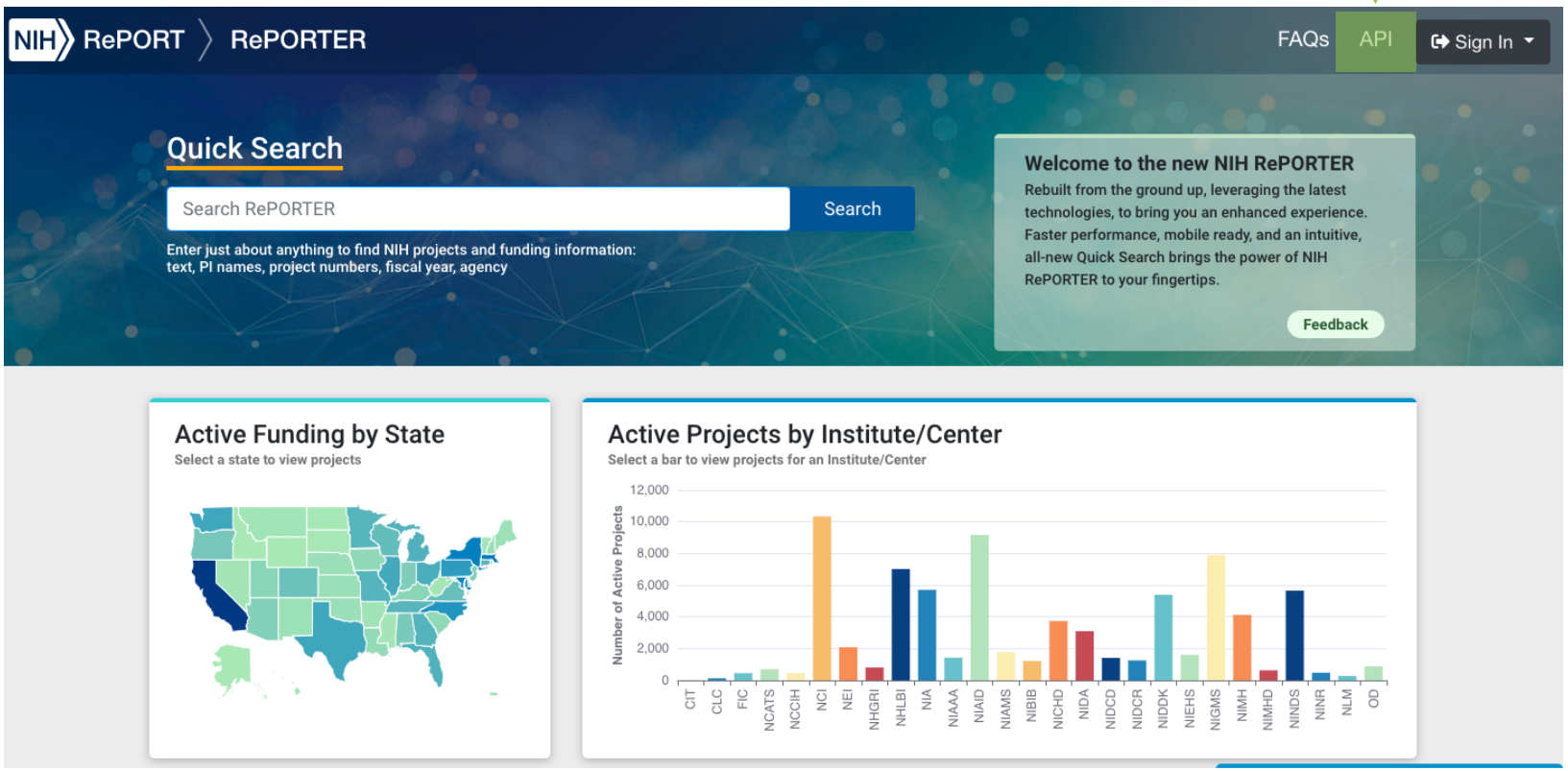

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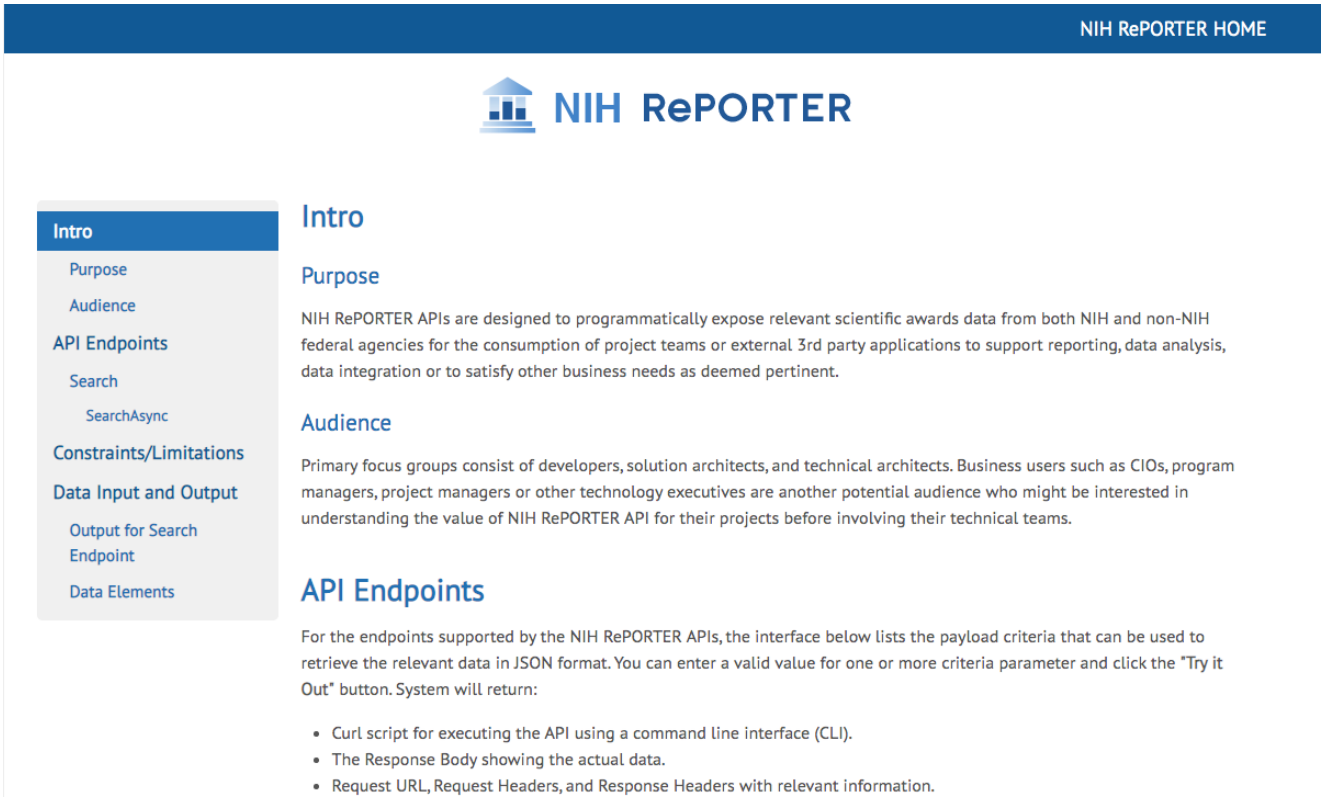


NIH RePORTER Update

- **Valuable Data**: All NIH grants back to 1985; most extensive source
- **Backstory (2018)**
  - Federal RePORTER API, but no NIH RePORTER API
  - NIH ExPORTER – downloadable Microsoft Excel spreadsheets
- **Original Algorithm**
  - Download entire NIH RePORTER database in Excel every Monday
  - Search the spreadsheets line-by-line for your names and institutions
  - Import Exporter spreadsheets into Flight Tracker/REDCap
  - Handled by Flight Tracker's computational system
- Very much imperfect; helped by duplication with Federal RePORTER

Flight Tracker Update

Goals

- Hook up NIH RePORTER API to new REDCap form (NIH RePORTER)
- Hook up new form to Flight Tracker's **computation engine**
- Write hookup in a way that will enable quick and easy searching for both RePORTERs in the future – **instant searching**
- **Stress-test** hookup with new internal project with Rebecca to debug
- Preserve old ExPORTER data & add new NIH RePORTER data
- Search by PI (or co-PI) name and institution

Flight Tracker Update

FLIGHT TRACKER for scholars

Two weeks later…

Flight Tracker Update

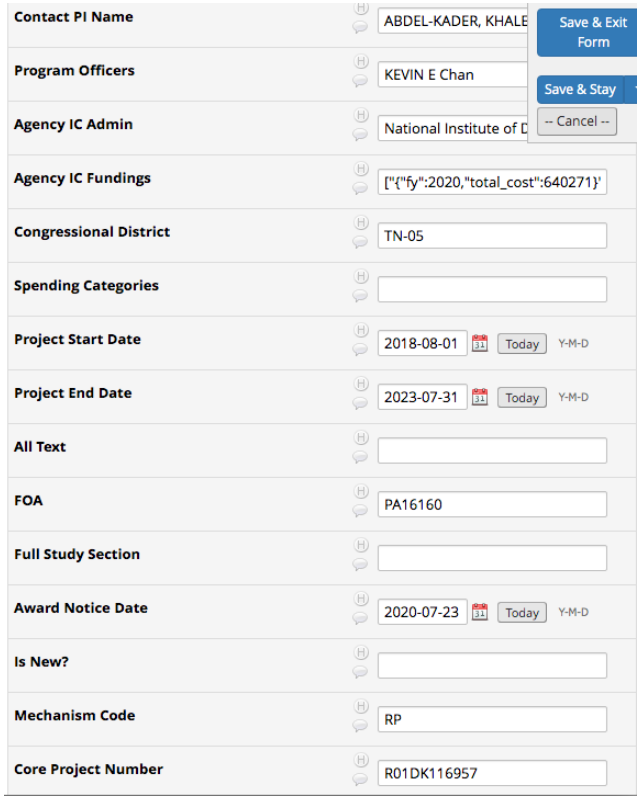
Same Bread & Butter

- Project number, funding, project dates, title, etc. from 1985 onwards

New Unique Data

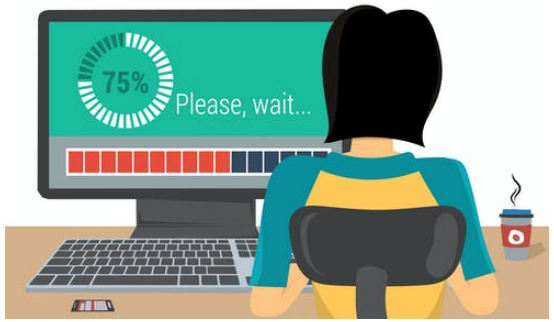
- MESH terms
- Preferred terms
- Abstracts
- COVID flag

➔ These new fields will be leveraged by future development down the road…



How to Get It

1. REDCap Administrator upgrades to Flight Tracker Version 2.34.1 (out now)
2. Update your data dictionary on the Flight Tracker Home page.
3. Then the NIH ExPORTER will be turned off and the NIH RePORTER API will be turned on.
4. Will continue to auto-update every Monday morning at midnight.



Future Dreams

Dreams for RePORTER system from Flight Tracker:

- ~~NIH RePORTER searchable API~~
- Search by ORCID identifier – better data verification
- Continued growth in linking with PubMed
- Direct dollars listed in NIH RePORTER API

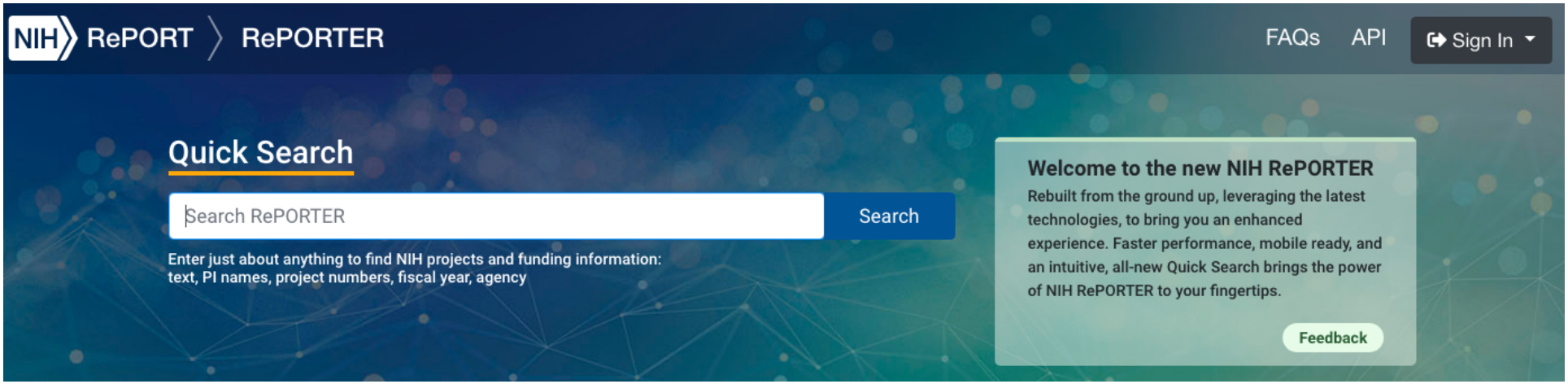
NIH RePORTER Take Home

FLIGHT TRACKER for scholars

New interface

Quicker searching

More data



What's New & What's Next?

FLIGHT TRACKER for scholars

- Missingness Report gets a facelift
- Expansion of degrees
- Grant Wrangler updates
- Display all grants

What's New?

Missingness Report

- Under View menu
- Finds where holes in data exist – measures completeness
- Facilitates targeted data collection efforts, especially before reporting statistics to outside groups

- Developed early in Flight Tracker efforts ➔ not as beautified
- Added dates of last contact; made more graphically appealing

What's New?

FLIGHT TRACKER for scholars

State of Missing Data

Green = Self-Reported | Yellow = Computer-Reported | Purple = Manual Entry | Red = Missing

Cohort: ---ALL---

Export to CSV

View All Missingness Worksheets

927 missing items across 259 records

To fill missing data, you can enter it yourself in the Manual Import form, electronically send them a survey, or print off a Missingness Worksheet for them to fill out themselves.

Name	Email	Degrees	Gender	Race / Ethnicity	DOB	Citizen?	Division	Rank	Position Start	Tenure	Gender Identity	Transgender?	Sexual Orientation	Last Admin Update	Last Survey Contact
1 Khaled Abdel-Kader (Missingness Worksheet)	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Missing	Missing	2020-08-07	2020-10-26
2 Ty Abel (Missingness Worksheet)	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Missing	Missing	2020-07-31	N/A
3 Robert Abraham (Missingness Worksheet)	Present	Present	Present	Present	Present	Missing	Present	Present	Present	Missing	Present	Missing	Missing	2020-07-31	N/A
365 Aaron Aday	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	2020-12-04	2020-11-01
456 Rajiv Agarwal (Missingness Worksheet)	Present	Present	Present	Present	Present	Present	Present	Present	Present	Missing	Present	Present	Present	2020-11-10	2020-11-01
335 Aimalohi Ahonkhai (Missingness Worksheet)	Present	Present	Present	Present	Missing	Missing	Present	Present	Missing	Missing	Missing	Missing	Missing	2020-06-16	N/A
4 Melinda Aldrich (Missingness Worksheet)	Present	Present	Present	Present	Present	Present	Missing	Present	Present	Present	Present	Present	Present	2020-11-05	2020-11-01
452 Matthew Alexander	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	2020-11-01	2020-11-01
443 Ryan Allen (Missingness Worksheet)	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Missing	Missing	2020-08-05	N/A
5 Peggi Angel (Missingness Worksheet) Left: 2014-02-01	Present	Present	Present	Present	Present	Present	Missing	Present	Present	Present	Present	Missing	Missing	2020-08-25	2019-06-27

What's Next?

FLIGHT TRACKER for scholars

Propose changing the following concerning degrees:

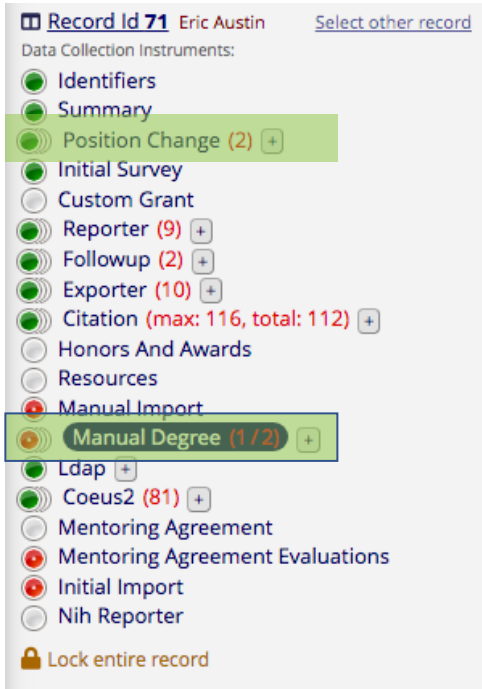
1. On Manual Degree form, provide list of all possible degrees, including bachelor's degrees
2. On summary form, MD → MD or equivalent; PhD → PhD or equivalent; etc.
3. Add checkbox list of all degrees
4. Institutions: Include institutions on Manual Degree form in institution list (in addition to Position Change form)

(Proposed by Vanderbilt MSCI program)

What's Next?

Position Change and Manual Degree forms

- Repeating REDCap forms
- Used to track career progression, especially outside of your institution



What's Next?

Proposed Change in Categories of Race

- Add "More than one race" to options
- Text sometimes, but not always, used by federal government
- Preferred over multi-racial
- Goal is to map to federal, especially NIH, categories

(Proposed by Krista Metz of the University of Cincinnati)

What's Next?

Proposed changes in Grant Wrangling: Common mismatched name(s)

- Flight Tracker lives and dies by matching by name and by institution
- ORCID hopefully supplanting over time, but not "there" yet
- Sometimes, names mismatch within your institution
- *E.g.*, at Vanderbilt, Harold Moses and Harold Moses, Jr.
  Or also at Vanderbilt, Marion (Lee) Sanders and Michael Lee Sanders

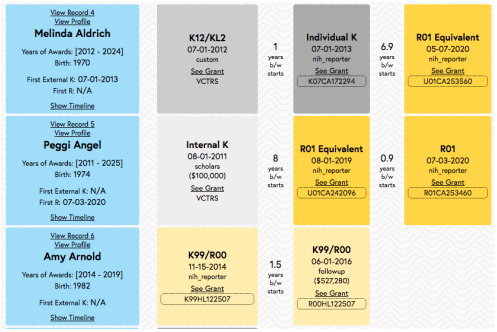
→ Add an "exclude list" to the Grant Wrangler – a list of names to exclude from matching

→ Also, delete old matches from exclude list

What's Next?

Current Grant-Viewing Options in Flight Tracker:

- Stylized CDA table views career trajectory among major awards
- Uses definition of $250k/year for 3+ years for R01-Equivalent
- Reflected on Summary form
- **BUT** excludes smaller awards that may represent significant professional steps, especially among trainees of training grants

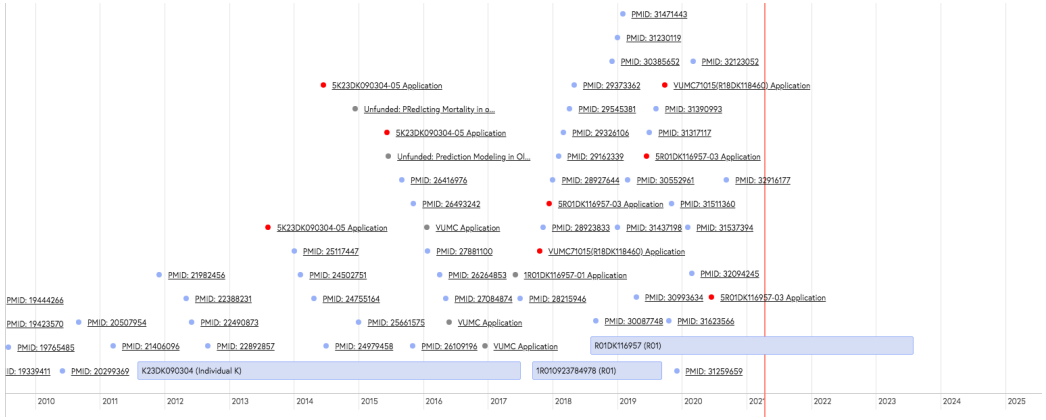


What's Next?

FLIGHT TRACKER for scholars

Therefore, a list of all grants, much like the list of all publications, is proposed for each scholar or cohort of scholars.

- Graphical or just a list?
- On individual view, probably with same timeline that is on Scholar Profiles



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