Scholars@Duke Data Consumer's Guide

Aggregating and consuming data from Scholars@Duke profiles
December 2019
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Getting Started with Scholars@Duke Data

Who is this Guide for?

This guide is written for anyone who is interested in aggregating and/or exporting data sets from Scholars@Duke. Scholars@Duke provides several methods for exporting data for individual profiles, as well as profiles across entire organizations. This guide will help you get started by providing details about what data is available for consumption and what the options are for connecting to the Scholars data.

Once you have read this guide and become a Scholars Data Consumer, these are additional resources to help you stay engaged with updates to our system and data:

- Check the Recent Updates Page (http://about.scholars.duke.edu/recent-updates)
- Join the Scholars@Duke Data Consumers mailing list. Go to lists.duke.edu/sympa and subscribe to scholars-dataconsumers@duke.edu
- Review the Support for Data Consumers page which provides maintenance guidelines for vendors and website administrators (http://about.scholars.duke.edu/sites/default/files/Support%20for%20Data%20Consumers.pdf)

Why consume Scholars@Duke data?

Scholars@Duke displays researcher data sourced from official systems of record at Duke University. From each of these source systems, researchers and their delegates have the ability to maintain and customize the information that they prefer to display on their public profile. There are several benefits for re-using the information that is provided in Scholars@Duke:

- One-stop shop for Duke faculty data
- Authoritative information about Duke researchers
- Data is consistently structured across all researchers in all organizations
- The underlying linked data model facilitates data aggregation and complex network analyses
- Customizable and dynamic data feeds available in multiple formats
- Minimizes data maintenance in downstream systems and applications

How up-to-date is Scholars@Duke data?

Scholars@Duke is refreshed nightly from its source systems. Profile owners and their delegates have the ability to trigger some real-time data syncs within the “Manage My Profile” tool. Certain sections of a profile, such as the Overview and profile image, can be manually updated within Scholars@Duke and that information will be updated immediately on the profile.

What limitations may I find in Scholars@Duke data?

The data available in Scholars@Duke is ideal for most data consumer needs including downstream web applications and analyses. However, for tasks such as CV generation or reports that include sensitive data, Scholars@Duke will provide a starting point from which additional information may need to be added.

- Hidden/Private Data Not Available
  Scholars@Duke only displays data that is approved to be publically accessible. For the most part, researchers and their delegates are able to designate which elements of their profile they want hidden. This could include individual data elements, such as a grant or course, or entire sections such as Publications. Grants from private sponsors are hidden by default pending review of publicity restrictions.
• Only a subset of courses data is available
Scholars@Duke displays a very high-level overview of courses from the past 3 years. Detailed course information cannot be gathered through Scholars@Duke.

• Subject Heading are limited to select vocabularies
In support of the linked data structure underlying Scholars@Duke, official controlled vocabularies are used whenever possible to facilitate data aggregation and data sharing. A user can select subject headings from one of three approved sources, the Medical Subject Headings (MeSH), the Library of Congress Subject Headings (LCSH), Mathematics Subject Classification (MSC), Society for Classical Studies vocabulary (SCS) and the Scholars Duke Vocabulary. The Scholars Duke Vocabulary is relatively new and provides users a way to request that new subject headings be available. This list is curated by the faculty data team.

• Only Current faculty and select researchers available
Scholars@Duke provides web profiles for all current Duke regular-rank and non-regular rank faculty members. This means that the person has an active primary appointment in dFac, Duke’s faculty appointment system. Faculty must maintain a current primary appointment at Duke in order for their profile to remain active in the Scholars@Duke system.

Web profiles are also available for some non-faculty researchers including Duke students, staff, and affiliates. Non-faculty profiles are created manually on an opt-in basis. Non-faculty profile must be added by a Scholars@Duke organizational editor based on the discretion of that organizational unit.

Scholars@Duke profiles are automatically generated and removed for regular and non-regular rank faculty members. All other profiles must be manually activated and deactivated. Once a profile is deactivated, a static version of their data (in JSON) can still be exported for a limited amount of time. If a profile is deactivated and then reactivated, their profile will be restored with all of it’s previous content.

What are the terms of use for Scholars@Duke data?
The terms of use are available https://scholars.duke.edu/termsOfUse. A link is also in the footer of the Scholars@Duke home page.

Consuming Scholars@Duke Data
Depending on your data needs, there are three methods of aggregating and consuming data from Scholars@Duke. The following section compares & contrasts each of the following methods.

• Widgets API
• SPARQL Endpoint
• Drupal module
• Tableau

Widgets
Widgets Overview
The Scholars widgets API is a low-maintenance solution for consuming data about an individual or an entire organization. Endpoints can be accessed using the Widgets Builder tool (https://scholars.duke.edu/widgets/builder?uri=DukeUniqueID) and then exported in various formats, including JSON and Javascript. The Widgets Builder also allows users to copy and paste embed code directly onto your own website. The Widgets Builder is accessible from a person’s profile page or organization’s page by clicking the “Add Data to my Website” button.
Basic Use of Scholars Widgets (Endpoint by section of profile)

- Endpoints are available per section of a profile. Embed code is available only for the most popular data elements of a person or organization.
- Anyone with a Duke Net ID can access the widgets by clicking the “Add Data to My Website” button on any Scholars profile or organization page. More information on the using Widgets Builder is available in the Scholars@Duke User’s Guide (https://about.scholars.duke.edu/support-duke-faculty-delegates/user-guides)
- Widgets include additional data attributes that may not be apparent from a person’s profile page (ex. appointment type, organizational unit numbers, and favorite publications).
- The Widget Builder Tool (pictured to the right) allows data consumers to return a subset of the full data. Available data formats using the widgets builder tool are JSON, JSONP, HTML, and JavaScript.

Advanced Use of Scholars Widgets (All data for a person or individual)

- A Complete Feed endpoint is available that includes all data sections for a person or organization.
- **Getting data for an organization.** The organization widgets includes directory data (name, contact, overview, and image) for an organization. If you require more data than this, one way to pull data for an entire organization is to write a script that loops over the individual person widgets. For groups defined in Scholars@Duke, the organization widgets will provide you with a list of individuals. You can also loop through a custom list to create ad-hoc groups. You can pull individual widgets data using the Scholars unique URIs or the Duke Unique ID. These identifiers can be substituted into the following URL in order to access the JSON feed for an individual:

  ![Image of Widget Builder Tool]

  ```
  https://scholars.duke.edu/widgets/api/v0.9/people/complete/all.json?uri=https://scholars.duke.edu/individual/per9294252
  ```

  **Scholars@Duke Person URI** – The person identifier (text in green) is specific to Scholars@Duke. This identifier is what is listed in the organizational widgets Person List and is in the URL on the profile page.

  **Duke Unique ID** – rather than using the person identifier, the widgets URL will also resolve using the Duke Unique ID. Remove everything after the “uri=” above and replace it with the Duke Unique ID. The above example would look like this using a 7-digit Duke Unique ID (including leading zeros):

  ```
  https://scholars.duke.edu/widgets/api/v0.9/people/complete/all.json?uri=0123456
  ```

- **Identifying changes in the widgets.** When using the embed code, updates will automatically display wherever that embed code is used. When consuming individual profile data from the Complete Feed as JSON, there is an attribute called ‘updatedAt’ that you can use to identify when a profile was last updated. There is a separate ‘imageModTime’ attribute that alerts you to changes in the profile picture. The ‘imageModTime’ attribute can be found both in the individual widgets and the organization widgets.

- **Widgets for inactive profiles.** When a profile becomes inactive in Scholars@Duke, all of their data is removed from scholars.duke.edu and they will be dissociated with all Duke organizations by removing them from the organizational widgets. However, a static version of their widgets data can still be accessed using the URL above. In this case, the widgets will reflect the state of the profile prior to being deactivated.
SPARQL Endpoint

SPARQL Endpoint Overview

The SPARQL endpoint is a query service that implements the SPARQL Protocol for RDF and provides SPARQL query processing for RDF data available on the open internet. The Scholars@Duke SPARQL endpoint utilizes the full potential of querying RDF (linked) data by providing innumerable possibilities for aggregating and querying the data. This option may be considered if you require a subset of data that isn’t readily available from the widgets.

Features of the SPARQL endpoint include:

- Similar to SQL queries, SPARQL queries contain the flexibility to answer more targeted questions about the data in Scholars@Duke.
- Formats include JSON, XML, Text, CSV, and TSV.
- Unlike the widgets embed code, the query results are static and the query will need to be run periodically to refresh the data.

Getting Started with the SPARQL Endpoint

Contact the Scholars@Duke team (scholars@duke.edu) to inquire about use of the SPARQL endpoint. Someone will be in contact with you to assist in evaluating your data needs and writing the appropriate query. Using the SPARQL endpoint requires a NetID and an API key.

Advanced Use of the SPARQL Endpoint

SPARQL queries are specific to our underlying ontology. Details about the ontology are available at https://wiki.lyrasis.org/display/VIVODOC112x/Ontology+Diagrams

Available ontological attributes can be browsed using the SPARQL inspector: https://sparql.scholars.duke.edu/inspector-request.html

The Scholars@Duke team is available to assist in crafting and optimizing queries. Some basic resources for learning SPARQL can be found here:

Drupal Module

As a way to support Drupal-based development at Duke University, Duke University Web Services (DWS) has developed a custom Drupal module that makes Scholars@Duke data available for Drupal using the widgets. For more information about the code and available support, please visit https://webservices.duke.edu/code/.

Tableau

Most Scholars@Duke data is available on the Duke Community Tableau site: https://tableau.oit.duke.edu. Tableau provides easy ways for users to explore and filter Scholars@Duke, downloading customized csv files, or subscribing to research topics of interest. The Publications tab of the dashboard is shown below. The Data Consumers Resources page as additional instructions on using Tableau: https://about.scholars.duke.edu/support-duke-faculty-delegates/data-consumer-resources
Note on Publications Metadata in the Widgets

Widgets provides a wealth of parsed publications metadata for downstream applications. Some examples of this metadata include “abstract”, “PubMed ID”, “digital object identifier”, and “full text link”. All of the metadata required to build a standard publication citation can be accessed as individual data elements via the widgets. Alternatively, the widgets provide 4 pre-formatted citation (APA, MLA, Chicago, and ICMJE) for each publication. Formatting of these citations is managed by Zotero. These pre-formatted citations include a link to the publication’s page on the Scholars@Duke site. An example of the pre-formatted citations can be seen below:

In Profile Manager (click “Manage My Profile”), anyone with a Scholars@Duke profile has the ability to set one of these four citation options to be their preferred citation style. Setting this preference will determine how citations are displayed on a person’s profile page and which style is used in the widgets HTML embed code. For those that have not selected a preferred citation style, the default style is the Chicago style. Whether or not someone has selected a preferred citation style, the widgets JSON feed will include all four citation styles. Therefore, when using the JSON data, it will be up to the data consumer to note which style (if any) has been selected as the preference. The preferred citation style will appear in the JSON feed as seen below. If no preference has been set, the preferredCitationFormat attribute will not exist.
Publications Reporting in Elements

Symplectic Elements is the publication management system at Duke University and the source system for all publications in Scholars@Duke (elements.duke.edu). This application is managed by Duke Libraries and has reporting capabilities for data consumers who are interested in publications data for one or more organizations. For help with accessing reporting tools in Elements, please visit http://scholarworks.duke.edu/elements. Elements stores more publications metadata available than what is available in Scholars@Duke. Be aware that only publications marked as ‘Visible’ in Elements will be loaded into Scholars@Duke.

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Getting Help and More Information

To submit comments, questions, bugs, or enhancement requests concerning Scholars@Duke, please email scholars@duke.edu or contact your local power user listed at https://about.scholars.duke.edu/locate-power-user. To be added to the Scholars@Duke data consumers group listserv, go to lists.duke.edu/sympa and subscribe to scholars-dataconsumers@duke.edu.

If you are a website administrators or developer, please refer to the document “Support for Data Consumers” (http://about.scholars.duke.edu/support-duke-faculty-delegates) which provides further guidelines for maintaining and troubleshooting feeds from Scholars@Duke.
Widgets Data Dictionary (Complete feed, JSON)

The following Data Dictionary is also available in the link below with additional widgets API documentation: https://scholars.duke.edu/widgets/docs/#/

Last updated February 2018

Summary of Profile

**active**: can take the values of true/false, indicating whether a profile has an active primary affiliation with an organization in Scholars@Duke

**label**: the Professional Name (Last, First, Middle) as designated in dFac for faculty. For non-faculty, this will be their name in the Duke Directory (or LDAP).

**title**: the Preferred (aka “highest precedence”) title as designated in dFac for faculty. In the widgets, this is the title in which the Position attribute of “Rank” has the lowest value. For non-faculty, this is the title in the Duke Directory (or LDAP).

**updatedAt**: date attribute to show when an individual’s widgets were last updated with changes from the profile. The updatedAt date also powers a query endpoint where you can find all profiles that have changed since a given date. To access the query endpoint to https://scholars.duke.edu/widgets/search/modified.json?since=2016-04-15.

**uri**: the unique identifier for a person in Scholars@Duke. The URI redirects to the URL of the Scholars@Duke profile.

**vivoType**: the type of affiliation with Duke.

Academic Positions

*Previous and current academic positions outside of Duke. This would include visiting professorships. In Scholars@Duke this section is labeled “Academic Positions Outside Duke”.*

**academicPositions**: {
  **uri**: The unique identifier for the academic position
  **vivoType**: the ontological categorization of the record (dukecv:NonDukePosition)
  **label**: a concatenation of the role and institute attributes

  **attributes**: {
    **institute**: Name of academic institution
    **role**: Title of academic role or position
    **startDate**: YYYY-MM-DDT00:00:00
    **endDate**: YYYY-MM-DDT00:00:00
  }
}
Addresses
For faculty, there are two addresses in Scholars@Duke—the mailing address (or work_mailing) and the office location (or work_location). For non-faculty, only one address will be in Scholars@Duke, with the work location taking precedence if both are available.

addresses:

- **uri**: the unique identifier for a person’s address, either work_mailing, or work_location.
- **vivoType**: using the vcard ontology, office location are categorized as vcard:Location, while mailing addresses are vcard:Address
- **label**: concatenation of street, city, state, postal code
- **attributes**:  
  - **address1**: line 1 of a street address
  - **address2**: line 2 of a street address
  - **city**: name of city
  - **personUri**: person associated with the office location/address
  - **postalCode**: postal code
  - **state**: abbreviation of state name

Artistic Events (Exhibitions, Screenings, & Performances)

artisticEvents:

- **uri**: the unique identifier for the event
- **vivoType**: Event
- **label**: Event Title | Venue
- **attributes**:  
  - **description**: event description
  - **venue**: venue
  - **startYear**: YYYY-MM-DDT00:00:00
  - **endYear**: YYYY-MM-DDT00:00:00

Artistic Works
Artistic and/or non-print outputs that represent a faculty member’s primary scholarship. These are works that are parallel to publications but not adequately captured as a publication citation in Elements
artisticWorks:
{
    uri: the unique identifier for the event
    vivoType: Can be one or many types of artistic work. If multiple types of work are selected, then this value will be “Multiple Types” with the detail of these types listed in the “type_description”
    label: Title of work
    attributes: {
        role: One or many roles that a person contributed to the work
        abstract: Description of the work
        commissioning_body: Name of the commissioning body, if available
        collaborators: A list of all collaborators
        date: The creation date for the work.
        date_precision: indication of what precision the date was entered (Year, Month/Year, or Monday/Day/Year)
        link_label: The label for a URL related to the work
        link_url: URL related to the work
        role_description: A description to further explain the one or many roles selected
        type_description: A list of the one or many categories that best describe the work
    }
}

Attributes (Additional Person Data)
Information about a person where there can only be a single value. Attributes with an asterisk are required.

attributes: {
    academicActivities
    alternateId*: Duke Unique ID (will be the Net ID for non-faculty profiles that have not been active since June 26, 2017)
    clinicalOverview: This section is meant to specifically highlight clinical activities and responsibilities
    firstName*: first name
    imageDownload: link to full profile image
    imageFileName: the file name for the profile picture.
    imageModTime: This is the most recent date for which the profile image was updated.
    imageThumbnailDownload: link to the 200x200 thumbnail of profile image
    imageThumbnailUri: URI for page that links to thumbnail download
    imageThumbnail500Download: link to the 500x500 thumbnail of profile image
    imageThumbnail500Uri: URI for page that links to 500x500 thumbnail download
    imageUri: URI for page that links to full image and thumbnail downloads
    interestsOverview: This section is specifically for research interests that are not necessarily part of one’s expertise. In Scholars@Duke, this section is labeled “Current Research Interests”
lastName*: last name

leadershipPositions: paragraph summary of administrative, clinical, and/or leadership positions at Duke that are not represented by formal faculty appointments

mentorshipAvailabilties: coupled with the mentorshipOverview, this section allows users to specify who they are willing to mentor (affiliates, faculty, fellows, masters, PhDs, post-docs, professionals, residents, undergraduates, or other)

mentorshipOverview: paragraph about one’s availability to advise and mentor

middleName: middle name (if available)

netid*: net ID

officehours: office hours

overview: the overview paragraph that summarizes a person’s research and research interests.

phoneNumber: phone number from enterprise directory

preferredCitationFormat: If the user has selected a preferred citation format, they will have that value here. If this field is blank, then no preference has been set and a default citation format is used in Scholars@Duke.

preferredTitle*: the title in the “Positions” section of the widgets that has the lowest “rank” value (aka highest precedence value)

prefixName: title prefix

primaryEmail: email from enterprise directory

profileURL*: this is the customizable, human-readable URL that is recommended for display on downstream sites. However, the URI attribute is the persistent identifier for both the public profile and the widgets.

suffixName: title suffix

teachingActivities: This section is meant to specifically highlight teaching activities and responsibilities


Awards

Awards & honors that are manually entered in Scholars@Duke.

awards:

{
  uri: The unique identifier for an award in Scholars@Duke.
  vivoType: an award as defined in the VIVO-ISF ontology (vivo:Award)
  label: a concatenation of the award name & awarding body
  attributes: {
    awardedBy: the name of the awarding body
    awardedByUri: the Scholars URI for the awarding body
    date: the date in text form
  }
}
description: description of the award

datePrecision: the Scholars URI for the date

name: The name of the award

serviceType: Represents the level of award. Values can be “Department”, “International”, “National”, “Other”, “School”, “State”, or “University”.

Courses

Courses taught in the past 3 years, not including summer terms

courses:

{
  uri: the unique identifier for the course. The value after “course” represents the course number. The URI for renumbered courses will automatically be updated for all course years.
  vivoType: vivo:Course
  label: a concatenation of the course name and course title.
  attributes:
    role: the URI representing the role of a particular instructor on a course
    roleName: currently, this field is a duplication to the course label (concatenation of the course name and course title)

}

Education

A faculty member’s education and professional training as displayed in dFac. This section is only available for faculty who are active in dFac.

educations:

{
  uri: the unique identifier that specifies the university name, graduation year, and degree earned
  vivoType: ontological categorization of education URI (vivo:EducationalProcess)
  label: concatenation of degree earned + graduation year
attributes: {
  dateTimeUri: graduation/training year as time interval URI
  degree: degree abbreviation
  degreeUri: URI for degree type
  endDate: graduation/training year as “YYYY-DD-MM T00:00:00”
  endUri: graduation/training year as end date URI
  institution: name of the university
  organizationUri: the unique identifier for the university
  personUri: the URI for the person associated with the education
}

Geographic Focus

Geographic locations, primarily countries and US states, where a researcher has a scholarly relationship. These relationships are categorized as Expertise, Teaching, or Research. In Scholars@Duke, this section is labeled “Global Scholarship”.

geographicalFocus:

{
  uri: the unique identifier for a geographic region
  vivoType: the ontological category for a geographic region
  label: name of the geographic region
  attributes: {
    focusType: URI for the relationship type between a person and a geographic region
    focusTypeLabel: specification of a person’s scholarly relationship to a particular geographic region
    personUri: URI for the person
  }
}

Gifts

This section contains competitive funding that is not captured in Duke’s Sponsored Projects System, but rather awarded directly to the PI. In Scholars@Duke this section is labeled “Fellowships, Supported Research, & Other Grants

Gifts:

{
  uri: the unique identifier that specifies the funding record
  vivoType: ontological categorization of the funding URI (dukecv:Gift)
  label: Name of the competitive funds
  attributes: {
}
dateTimeEnd: funding end date as “YYYY-MM-DDT:00:00:00”
datetimeEndDay: day value of the end date
datetimeEndMonth: month value of the end date
datetimeEndValue: URI version of the funding end date
datetimeEndYear: year value of the end date
datetimeInterval: URI version of the funding date interval
datetimeStart: funding start date as “YYYY-MM-DDT:00:00:00”
datetimeStartMonth: month value of the start date
datetimeStartDay: day value of the start date
datetimeStartValue: URI version of the funding start date
datetimeStartYear: year value of the start date
description: description of the funding and/or the funded activities
donor: name of the donor
giftAmount: dollar amount of funds
role: the user’s role in relation to the funded activity (for example, “PI”)

}}

Selected Grants

Select grants from Duke’s Sponsored Project System (SPS). If applicable, one grant will represent multiple renewal years, as well as any mini grants that associated with it. Grants with publicity restrictions are not included. For funding not tracked in SPS, please see the “Gifts” section of the Scholars widgets.

uri: the unique identifier for a grant in Scholars@Duke. The value after the “gra” represents the proposal ID. In the case of a renewal grant, the URI value will automatically update to the most current proposal ID.

vivoType: categories of grants.

label: name of grant

attributes: {
    endDate: project period end date for the proposal (most recent proposal if grant has been renewed)
    roleName: person’s role on the grant
    awardedBy: name of the grant sponsor
    administeredBy: name of the Duke department that received the grant
    awardedByUri: URI of the grant sponsor
    administeredByUri: URI of the Duke department that received the grant
    startDate: project period start date for the proposal (first proposal if grant has been renewed)
}

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In the News

A combination of news stories tagged by Duke’s Office of News & Communication and entered manually. In Scholars@Duke, this section is labeled “In the News”

Newsfeeds: {
  uri: The unique identifier for the license or credential record
  vivoType: http://vivoweb.org/ontology/core#NewsRelease
  label: Title of the news story
  attributes: {
    newsDatetimeObj: URI of the date value
    newsLink: URL to the news story
    newsDatetime: YYYY-MM-DDT00:00:00
    newsMonth: month value
    newsDay: day value
    newsYear: year value
    newsSource: name of the news source
  }
}

Licenses

Medical licensure and other credentials not captured in dFac

licenses: {
  uri: The unique identifier for the license or credential record
  vivoType: the ontological categorization of the record (dukecv:MedicalLicensure)
  label: a concatenation of the license number, the licensing state, and the license year.
  attributes: {
    datetime: URI version of the year of licensure
    number: title of academic role or position
    state: Name of academic institution
    year: year of licensure as “YYYY-MM-DDT00:00:00”
  }
}

Past Appointments

Duke appointment history, not including active appointments which are listed separately in the Positions section of the widgets

pastAppointments: {
  uri: the unique identifier for the historical appointment record
  vivoType: the ontological categorization of the appointment record (dukecv:DukePastPosition)
  label: the appointment title
  attributes: {
  }
}
Positions

Faculty appointments and center memberships contained in dFac. This section also includes non-faculty member’s HR title and non-faculty affiliations as designated in Scholars@Duke.

positions:

{

  uri: unique identifier for a position

  vivoType: the type of affiliation a position represents. Position vivoTypes include: Primary Position, Secondary Position, Joint Position, Faculty Administrative Position, Professorship, Membership Position, Student Position, Non-Faculty Academic Position, Affiliate Position, Faculty Position

  label: appointment title or non-faculty HR title. For students this will always be “Student”

  attributes: {

    dateUri: appointment start and end as a time interval URI

    endDateTimeUri: appointment end date URI

    organizationLabel: name of the department for which the appointment exists

    organizationUri: department URI

    personUri: URI for person who occupies this position

    rank: display order for titles. These values have a default setting and can be edited in dFac using the Title Precedence form.

    startDateTimeUri: appointment start date URI

    schoolLabel: name of the school for which the appointment exists

    schoolUri: URI for the school

    startYear: appointment start date in YYYY-MM-DDT:00:00:00 format

    endYear: appointment end date in YYYY-MM-DDT:00:00:00 format

  }

}
Professional Activities

*These are scholarly activities related to Outreach & Engaged Scholarship, Service to Duke, Service to the Profession, or Presentation & Appearances*

`professionalActivities:
{
    uri: the unique identifier for an activity in Scholars@Duke
    `vivoType`: The category of professional activity. This can be “Service To The Profession”, “Service To The University”, “Presentation”, or “Outreach”
    label: A concatenation of the role, serviceOrEventName, hostOrganization, and date.
    attributes:{
        description: description of the event and the person’s role
        `endDate`: start date of the event as YYYY-MM-DDT:00:00:00
        `endDatePrecision`: indicates if the endDate was entered as YYYY, YYYY-MM, or YYYY-MM-DD
        hostOrganization: name of the host organization
        locationOrVenue: geographic location and/or venue name
        `nameofTalk`: Name of presentation (only relevant for vivoType = “Presentation”)
        role: The role(s) that a person had on that activity
        serviceOrEventName: Name of the event
        serviceType: Sub-categories of service that are specific to the vivoType.
        `startDate`: start date of the event as YYYY-MM-DDT:00:00:00
        `startDatePrecision`: indicates if the startDate was entered as YYYY, YYYY-MM, or YYYY-MM-DD
    }
}"

Publications

Each publication feeding in from Elements (elements.duke.edu) will have some of the following metadata. Metadata with an asterisk will be present for each publication, while the others are optional.

`Publications:
{
    uri: the unique identifier for a publication in Scholars@Duke. The six-digit value after “pub” represents the identifier that comes from Elements. The URI redirects to the URL for the publication’s entity page in Scholars@Duke.
    `vivoType`: the type of publication as designated in Elements. For a complete list of publication types currently available, reference the “Browse By” list at scholars.duke.edu/research
    `label`: the title of the publication
}"
attributes: {

abstract: publication abstract

apaCitation*: American Psychological Association citation style

authorList*: list of all authors as “Last Name, First Initial". A character limit has been applied to this value to better handle extraordinarily long author lists.

authorshipType*: relationship between person and publication. Values are “Authorship”, “Editorship”, “Translatorship”, or “Contributor”.

cityCitation*: Chicago citation style

conferenceDatetimeStart: URI version of the conference start time as “YYYYMMDD”

cconferenceStartDate: conference start date as “YYYY-MM-DDT:00:00:00”

cconferenceStartDateDay: day value

cconferenceStartDateMonth: month value

cconferenceStartDateYear: year value

cconferenceDatetimeFinish: URI version of the conference end time as “YYYYMMDD”

cconferenceFinishDate: conference end date as “YYYY-MM-DDT:00:00:00”

cconferenceFinishDateDay: day value

cconferenceFinishDateMonth: month value

cconferenceFinishDateYear: year value

cconferenceLocation: Location where a conference paper was presented

cconferenceName: name of the conference where a conference paper was presented

contributorList: list of all contributors not already captured as authors, editors, or translators

datetime*: publication date URI as “YYYYMMDD”

doi: digital object identifier. To link to the full text on the publisher’s site, add the prefix “dx.doi.org/” followed by the DOI.

Edition: edition of the publication venue

editorList: list of editors

endPage: end page of publication

icmjeCitation*: International Committee of Medical Journal Editors citation style

isbn10: international standard book number, 10 digits

isbn13: international standard book number, 13 digits

isFavorite*: this attribute is set to “true” when an author has marked their publication as a “favorite” in Elements.

issue: journal issue

mlaCitation*: Modern Language Association citation style

numPages: number of pages

onlineContent: this is the link to the open access copy of the publication (made available by DukeSpace).

parentBookTitle: for a publication of type “BookSection”, this field describes the name of the collective work.
pmcid: Pubmed Central ID. By adding the prefix http://www.ncbi.nlm.nih.gov/pmc/articles/ to this ID, you can create a link to the PubMed Central version of the publication.

pmid: PubMed ID

publicationSource*: the source of the publication record. Metadata will vary slightly between the various sources. A preferred source (per publication) can be selected in Elements. The default and preferred sources are PubMed and European PubMed.

publishedBy: name of publisher

publishedIn: A journal in which the ISSN is identified and is therefore represented as a linked URI

publicationVenue: A journal in which the ISSN is not identified and is therefore represented as unlinked text

startPage: start page of publication (typically for an article or book section).

subtypes: while the vivoType represents the format of the publication, the subtype relays the genre and/or content of the publication.

translatorlist: list of translators

volume: journal volume

year*: publication date as “YYYY-MM-DDT00:00:00”

Research Areas

Subject headings from MesH & Library of Congress

researchAreas:

{ that describe a person’s research & areas of expertise

  uri: subject heading URI

  vivoType: ontological categorization of subject headings is skos:Concept

  label: name of the subject heading

  attributes: {
    personUri: the person associated with that subject heading
  }

Web Links

Web links that were manually entered onto a person’s profile (typically includes links to a CV, department site, personal site, or Google Scholar page, etc.)

Webpages:

  uri: The URI for a weblink in Scholars@Duke

  vivoType: "http://www.w3.org/2006/vcard/ns#URL"

  label: Display label for the URL
attributes:

- **personUri**: The person associated with the URL
- **linkURI**: The actual URL