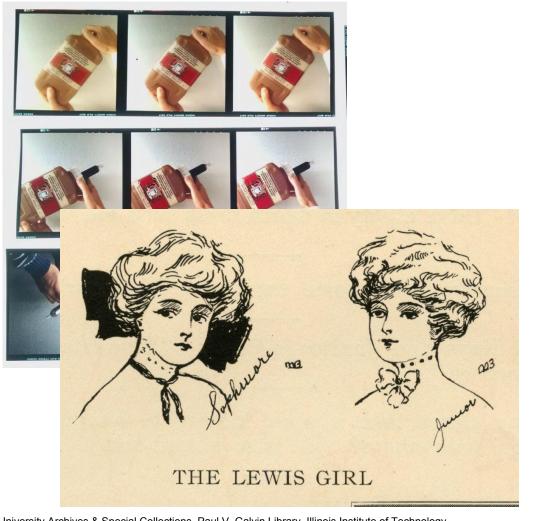
Migrating to ArchivesSpace with OpenRefine

Greer Martin
Paul V. Galvin Library
Illinois Institute of Technology
March 24, 2018



University Archives & Special Collections

- Established 1998
- 1,500 collections, mostly university records
- 4 full time staff
- Use Re:Discovery Proficio for archival records management system
- Planning for migration to ArchivesSpace began in 2015

Re:Discovery public interface

HEALD (IIT Archives Catalog)

Search | Browse | Help

Home > Search > ArchiveSearch

Search IIT Archives Catalog

- Indexes > About Us

> Exhibits &

Collections

> University History

Search

Catalog)

- This Website

- Collection Guides

- HEALD (IIT Archives

Collection Nbr: 004.03.01

Collection Title: MMAE Department Collection Inclusive Dates: 1969- 1977

Bulk Dates:

Appraisal:

Notes: Summary:

Creator:

Bio/Org History:

[Extent]7 [Unit]Folders

Extent: Language:

Provenance: taken from 1998,130

Available for Research Item Status:

Engineering, n.d.

Creator Role:

Department of Mechanical, Materials and Aerospace Engineering

1. Metallurgical and Materials Engineering Program Info, 1972- 1977 2. Mechanical

Engineering Masters Program, 1969 3. Metallurgical Engineering Graduate Programs, c.1969 4. MMAE Graduate Program Info, 1970s; poster for Metallurgical and Materials Scope-Content: Engineering Masters program, 1983 5. X-Ray Courses, 1970 6. Metallurgical and Materials

Engineering Program info, n.d. 7. Dept Of Mechanical Materials and Aerospace

Organiz/Arrange: Itemized Listing: Assoc Materials:

Pers Name:

Corp Name:

Mechanical Engineering -- Materials Engineering -- Aerospace Engineering (SEE ALSO: Mechanical, Materials, and Aerospace Engineering)

Topic Term: Functions/Act.:

Browse Term	Term Type	Browse Term	Term Type
College Bowl	Topic term	Hermann Union Building (AKA: HUB) (SEE: Hermann Hall)	Topic term
College of ArchitectureIIT	Corporate name	Hern, Matthew	Personal name
College of Psychology	Topic term	Heron, Reginald	Personal name
College of Psychology-IIT	Corporate name	Heskett, John	Personal name
College of Science and LettersIIT	Corporate name	Heuermann, Magda	Personal name
Control to Table 2011 (1907) 1907 1907 1907 1907 1907 1907 1907 1907		Hewitt, Louise	Personal name
Collens Scholarship Program	Topic term	Heyd, Kurt	Personal name
Collens, Lewis (Lew)	Personal name	Higgins, ???	Personal name
Collens, Marge	Personal name	Higgins, Geoffrey T.	Personal name
Collins, John	Personal name	Higgins, Michael	Personal name
Colonade Park (aka Branch Brook), Newark, New Jersey	Geographic term	High Schools-Chicago	Topic term
Commencements	Topic term	Hilberseimer, Ludwig	Personal name
Committee on the Future of IIT (COMFIIT)	Topic term	Hilberseimer, Ludwig K.	Personal name
Commons (building)	Topic term	Hill, Doug	Personal name
Communication Engineering School	Corporate name	Hilvers, Robert Joseph	Personal name
Community Relations	Topic term	Himmelreich, Dean	Personal name
Comprehensive Plan for Chicago (1965)	Topic term	Hirano, Marjorie Yasuko	Personal name
Computer Engineering	Topic term	Hiroshima, Japan	Geographic term
Computer Science	Topic term	Hispanics	Topic term
	control de la co	Hock, Daniel	Personal name
Computers	Topic term	Hocker, Thomas	Personal name
Computers & Computing, History of	Topic term	Hoffman, Ellis	Personal name
Concrete Canoe	Topic term	Holabird and Roche	Corporate name

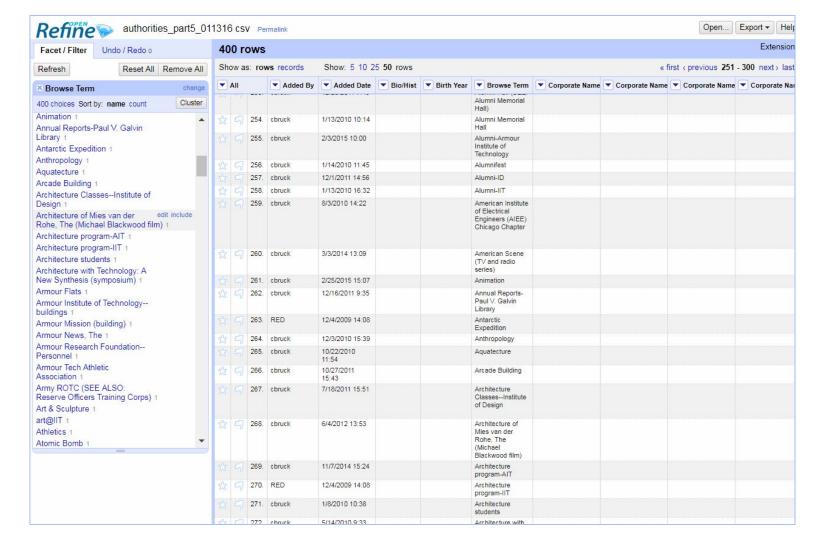
Migration

OpenRefine

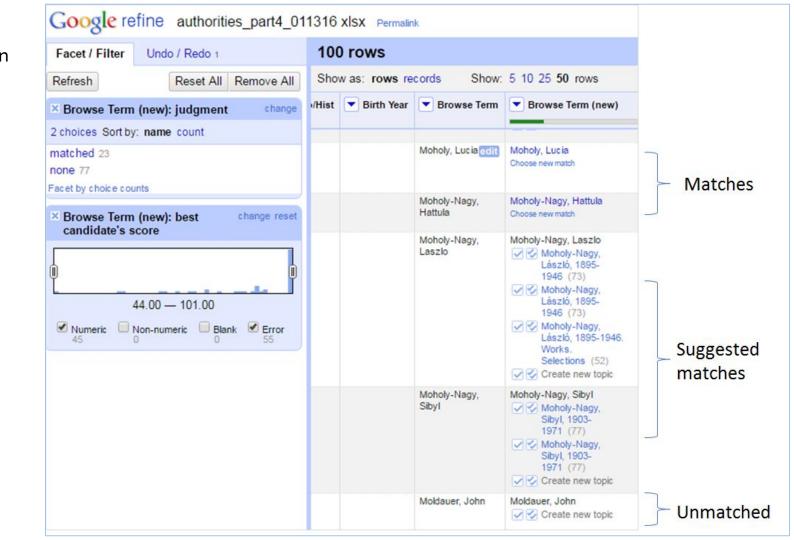
- Metadata cleanup
- Authorities reconciliation
- JSON creation

ArchivesSpace API

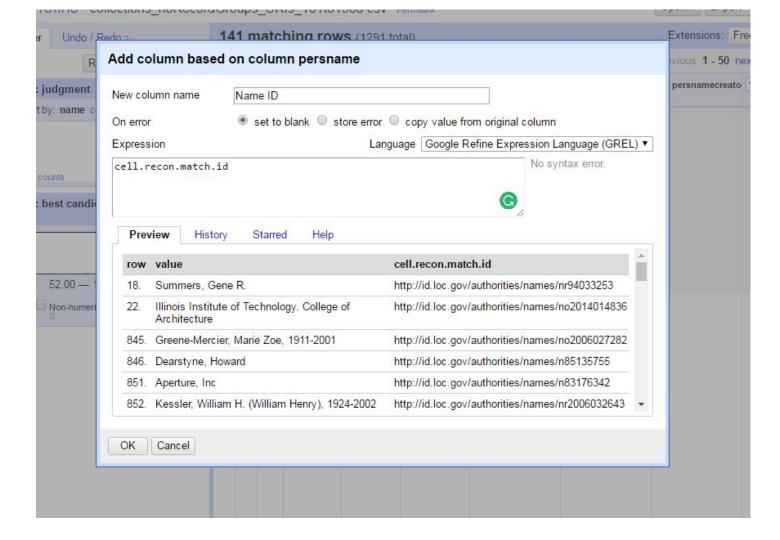
Import records



Postreconciliation

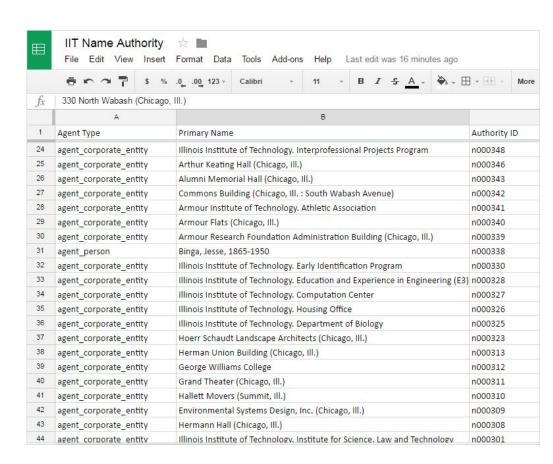


Adding URIs



Reconcile-csv

- OpenRefine reconciliation service that matches one dataset against another
- Found at: http://okfnlabs.org/ reconcile-csv/
- Good for adding local metadata



ArchivesSpace API

What is it?

 Set of instructions for importing and retrieving data without using the interface

Why use it?

- Data not in the importing tool's required format
- Batch importing

XML JSON

```
<person>
 <firstName>John</firstName>
  <lastName>Smith</lastName>
 <age>25</age>
 <address>
   <streetAddress>21 2nd Street</streetAddress>
   <city>New York</city>
   <state>NY</state>
   <postalCode>10021</postalCode>
 </address>
  <phoneNumber>
   <type>home</type>
   <number>212 555-1234
 </phoneNumber>
  <phoneNumber>
   <type>fax</type>
   <number>646 555-4567
 /phoneNumber>
 <gender>
   <type>male</type>
 </gender>
</person>
```

```
"firstName": "John",
"lastName": "Smith",
"age": 25,
"address": {
  "streetAddress": "21 2nd Street",
  "city": "New York",
  "state": "NY",
  "postalCode": "10021"
"phoneNumber": [
    "type": "home",
    "number": "212 555-1234"
 },
    "type": "fax",
    "number": "646 555-4567"
"gender": {
  "type": "male"
```

Schemas

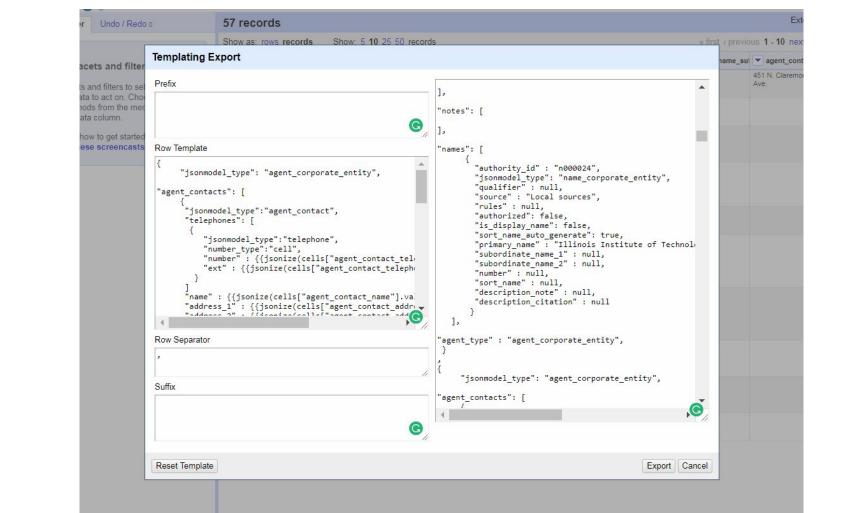
- Map name data to ArchivesSpace Agent schema
- Different schemas for person and corporate agents
- JSON-ize records using OpenRefine

JSONModel(:agent_corporate_entity)

```
uri
                    string
title
                    string
is_linked_to_published_record boolean
agent_type
                    enum string agent_person agent_corporate_entity
                    agent_software agent_family user
agent_contacts
                   array JSONModel(:agent contact) object
linked_agent_roles array string
external_documents array JSONModel(:external document) object
rights_statements array JSONModel(:rights statement) object
system_generated boolean
                   array [object Object]
notes
dates_of_existence array JSONModel(:date) object
publish.
                    boolean
lock version
                    integer, string
jsonmodel_type
```

created_by

string





POST Agents

- Consult API for POST
 Corporate Agents command
- Post one at a time, or build a script that will post them all

```
curl -H "X-ArchivesSpace-Session: $SESSION"
 -d {
  "jsonmodel_type": "agent_corporate_entity",
  "agent_contacts": [
      "jsonmodel_type": "agent_contact",
      "telephones": [
          "jsonmodel_type": "telephone",
          "number_type": "cell",
          "number": "753 25202 1654 07054",
          "ext": "MHDPA"
      "name": "Name Number 5",
      "address_1": "4H735534V",
      "country": "82691V643281",
 "agent_type": "agent_corporate_entity"
 http://localhost:8089/agents/corporate_entities'
```



Conclusion

- Structured data = migration is possible!
- OpenRefine for cleaning, reconciliation, JSON export
- API for importing without using interface



Thank you!

```
gmarti15@iit.edu

Resources:
http://bit.ly/mac2018_martin
```