

Texas Conference on Digital Libraries

Special Forum: Exploring Linked Data for Libraries (Stadium Room 1.138)



The Design and Development of an Integrated Researcher Profile System at Texas A&M to Enrich Scholarly Identity of Faculty

Dr. Bruce Herbert | Michael Bolton | Doug Hahn | Dong Joon Lee

Workshop Overview

Introductions

VIVO Basics (20 mins)

Implementation at Texas A&M

Group Discussion: Use Cases & Stakeholders (15 mins)

VIVO Technical Aspects (30 mins)

Ontologies

Data Workflow

Next steps

Group Discussion: Questions (15 mins)

10-minute break:

2:20 PM



VIVO Basics

Dr. Bruce Herbert & Michael Bolton



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“The value of scientific knowledge dispersed across the world can increasingly be captured by those who build networks to take the local to global scale and bring the global back for local impact.”

From “The United States Looks to the Global Science, Technology, and Innovation Horizon,” E. William Colglazier and Elizabeth E. Lyons, citing *The New Invisible College*, Caroline S. Wagner, The Brookings Institution Press, 2008

DURASPACE™

VIVO

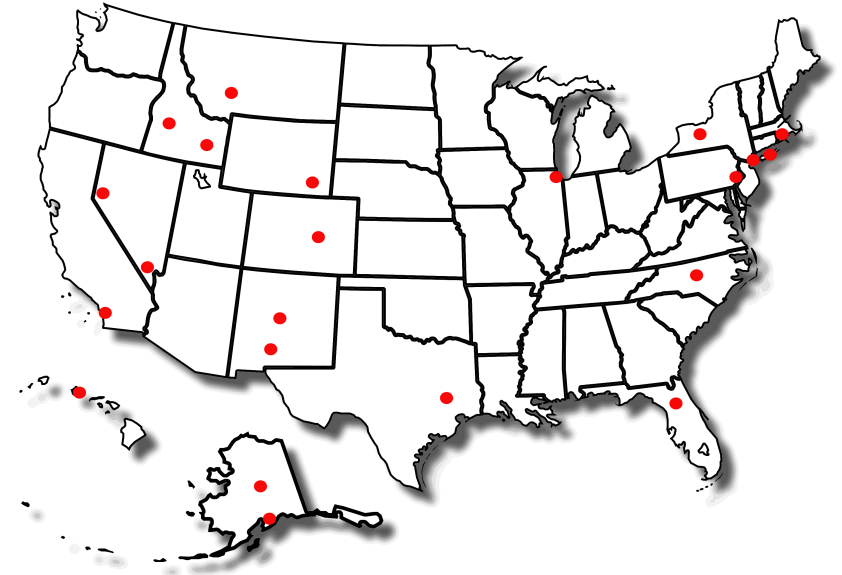
A semantic-web-based research and researcher discovery tool

People plus information on the research they do

Publicly-visible information, across disciplines

Serves both external and internal audiences

An open, shared platform for connecting scholars, research communities, campuses, and the world using Linked Open Data (LOD)



VIVO Installations

A Brief History of VIVO

- 2003-2005 First realization as a relational database for the life sciences at Cornell
- 2006-2008 Expansion to all disciplines at Cornell; conversion to Semantic Web
- 2009-2012 National Institutes of Health (NIH) grant *VIVO: Enabling the National Networking of Scientists* transforms VIVO to a multi-institutional open source platform
- 2013-2015 VIVO now a community-supported project under DuraSpace with open community development

Key VIVO Principles

The screenshot displays the VIVO website interface. At the top, there is a dark header with the VIVO logo (connect • share • discover) and the Texas A&M University Libraries logo. A search bar is located in the top right corner. Below the header is a navigation menu with links for Home, Organizations, People, Research, and About. The main content area features a 'Welcome To VIVO' section with a brief description and a search box. Below this, there are three columns: 'Research' showing 32,312 Academic Articles, 'Faculty' listing four individuals (Rupley, William H., Chen, Zhilei, Carter Sowell, Adrienne R., and Dexter, Rayna M.), and 'Departments' listing five categories (Entomology, Architecture, Aerospace Engineering, Hispanic Studies, and Geography). At the bottom, a 'Statistics' section displays five metrics: 3.6k People, 4 Events, 107 Organizations, 37k Research, and 316 Locations.

Open software

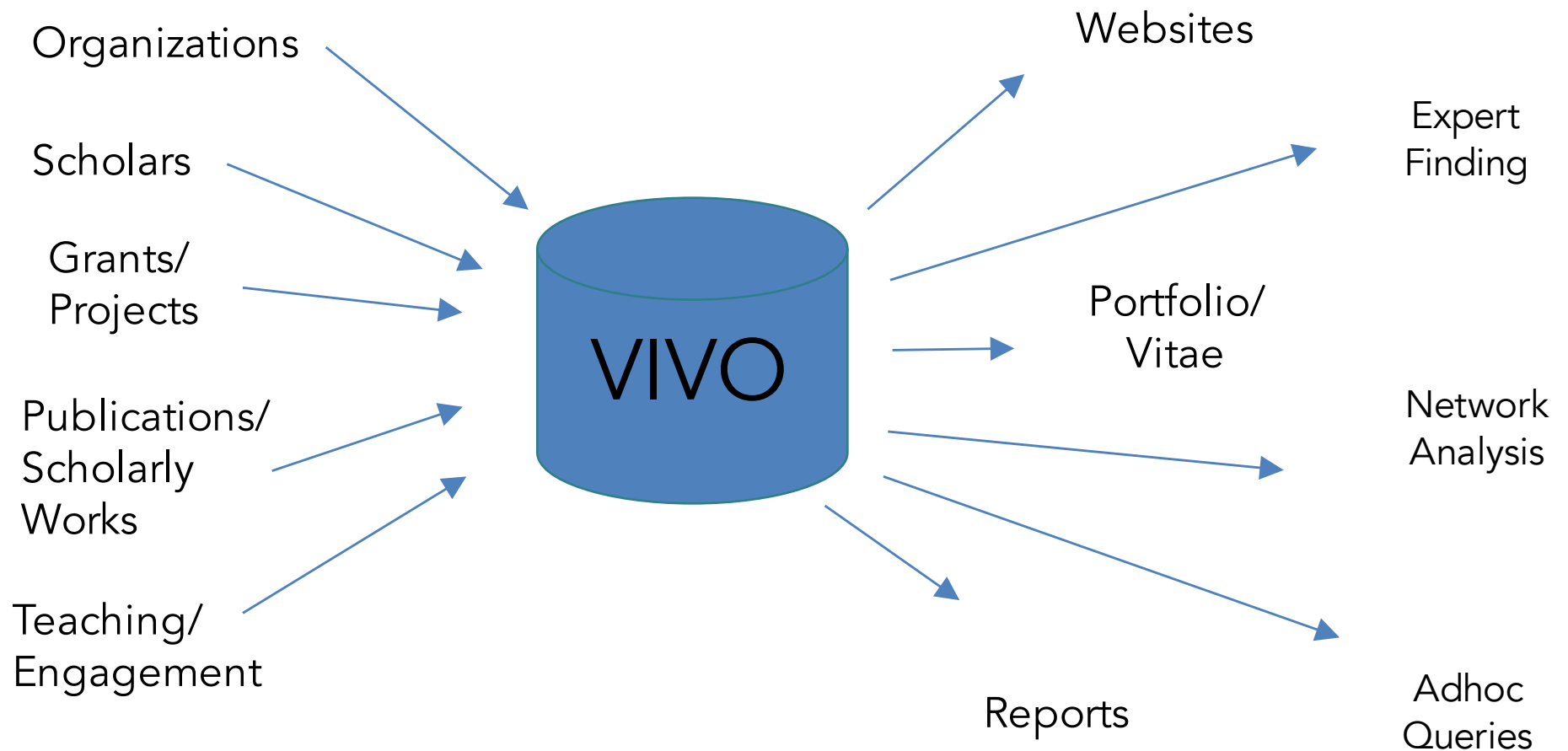
Open data

Open ontology


Open community

Local control

Integrates Institutional Data



People




Research & Expertise
Across Cornell

Index | Log in

Search

Home | People | Organizations | Research | Events



Riha, Susan Jean | Charles L. Pack Professor in the Department of Earth and Atmospheric Sciences

[Link](#) [QR](#) [TB](#)

Positions

▶ Director New York State Water, [Earth and Atmospheric Sciences \(EAS\)](#), [College of Agriculture and Life Sciences \(CALS\)](#)


I am a professor in the department of Earth and Atmospheric Sciences, and joined the Cornell faculty in 1980. At that time, I was appointed the Charles L. Pack Research Professor of Forest Soils. My research interests are in the area of the interaction of plants with their physical environment and in dynamic simulation modeling. I work on both environmental and plant production problems on the state, national and international levels. I am a member of the graduate fields of Soil and Crop (... [more](#))


Research Areas


[biocomplexity](#) | [biogeochemistry](#) | [climatology](#) | [computational biology](#) | [crop management or crop science](#) | [earth science](#) | [ecosystem biology](#) | [environmental sciences](#) | [forest management](#) | [hydrology](#) | [information science](#) | [integrated crop management](#) | [integrated pest management](#) | [international agriculture](#) | [land use](#) | [soil and crop science](#) | [surface processes, sedimentary basins, & paleontology](#) | [sustainable development](#) | [weed science](#)

Geographic Focus

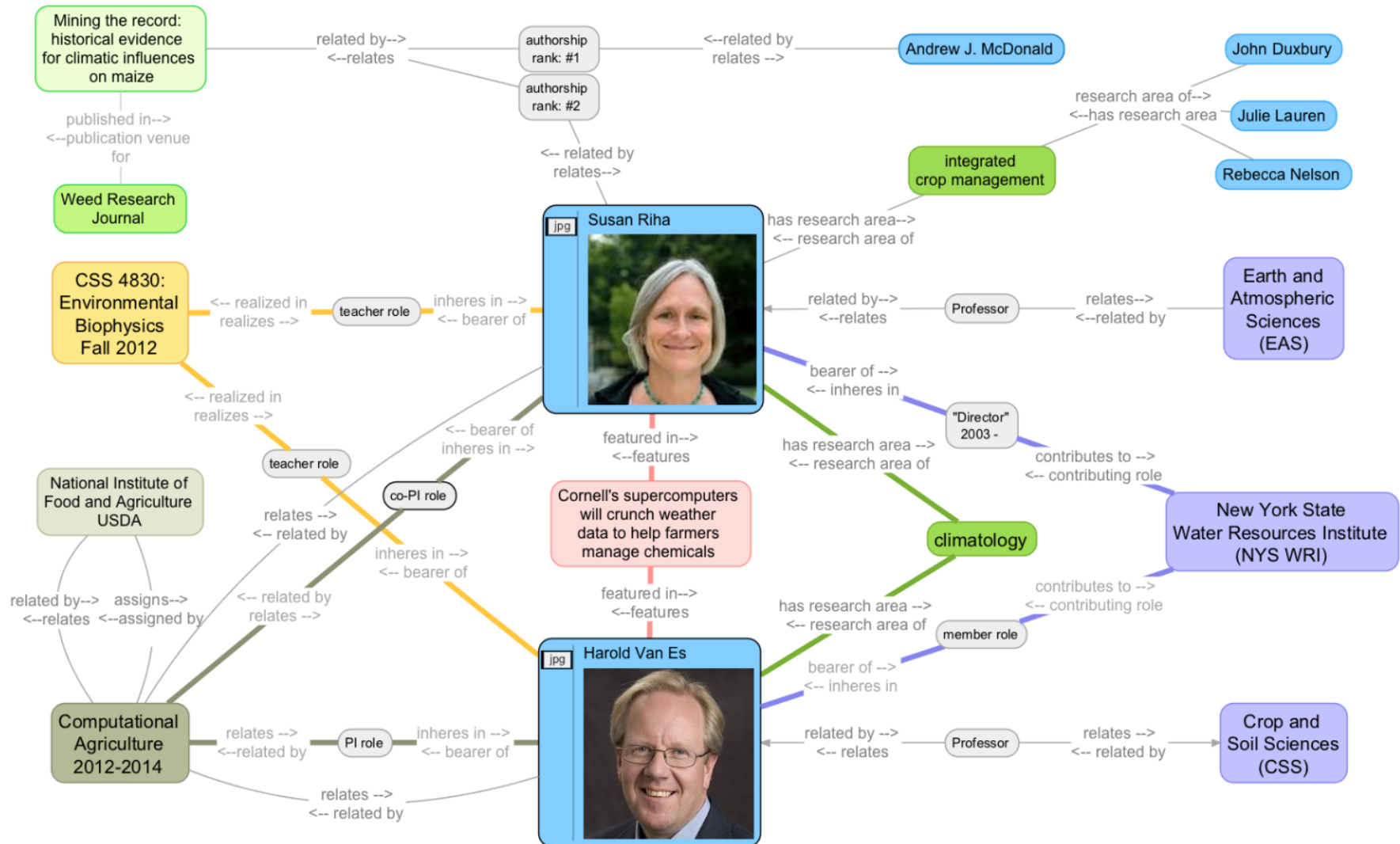
Networks

 [Co-author Network](#)

 [Map of Science](#)

 [Co-investigator Network](#)


And How They Connect



Structured Data for Visualizations

Co-Author Network [\(GraphML File\)](#)

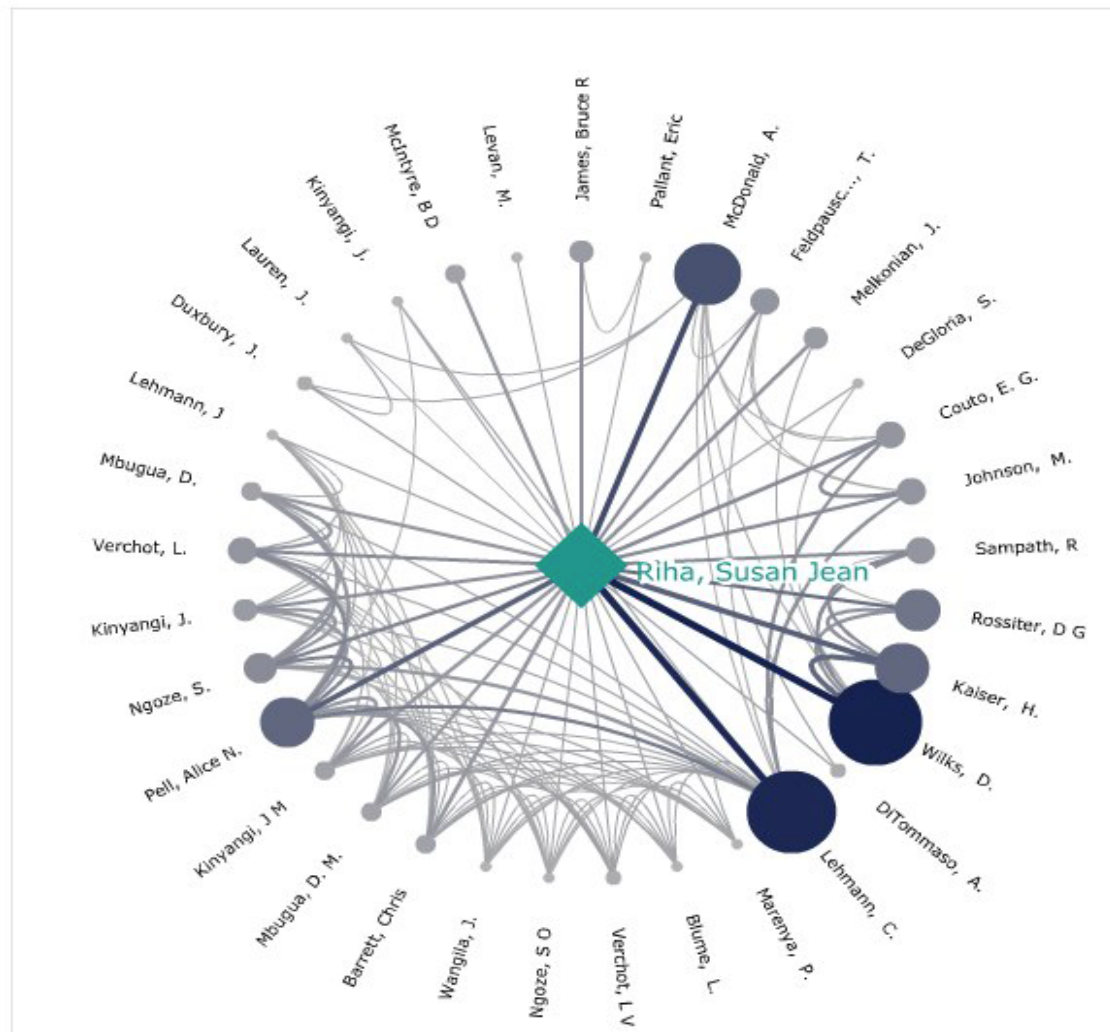
Profile



Riha, Susan Jean
Charles L. Pack Professor in t...
[VIVO profile](#) | [Co-author network](#)

- 132 Publication(s)
- 33 Co-author(s)
- 1980 First Publication
- 2010 Last Publication

Note: This information is based solely on publications which have been loaded into the VIVO system. This may only be a small sample of the person's total work.



Enter Data Once, Use Many Times

VIVO Research & Expertise Across Cornell

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Cornell University
Chemistry and Chemical Biology

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Chemistry and Chemical Biology | Cornell

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Abruña, Héctor D | Edit this individual
Resource URI: <http://vivo.cornell.edu>

Abruña, Héctor D | Edit
Preferred Title
Emile M. Chamot Professor

Positions +
▶ [Chemistry and Chemical Biology](#)

Overview
The Abruña Group focuses on a wide variety of techniques for molecular electronics.

Research Areas +

Contact information
RDF

Web Pages +
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▶ [Chemistry and Chemical Biology profile](#)

Affiliation | **Research** | **Publications** | **Teaching**

Affiliation
head of +
[Cornell Fuel Cell Institute \(CFCI\)](#)

Abruña, Héctor D
E. M. Chamot Professor

email: hda1@cornell.edu
phone: 607-255-4720
room: Olin Chemistry Research Wing

Websites
▶ [Abruña Group](#)

Department Appointments
▶ Chemistry and Chemical Biology (CHEM)

Graduate Fields
▶ Chemistry and Chemical Biology

Other Affiliations

Overview
You are here: [Chemistry and Chemical Biology](#) > [Faculty](#) > [Faculty Detail](#)

The Abruña Group focuses on the development and characterization of new materials using a wide variety of techniques for fuel cells, batteries, and molecular assemblies for molecular electronics.

Research

Our research effort takes an interdisciplinary approach to the study of electrochemical phenomena. We employ electrochemical techniques as probes of a variety of chemical systems, and we use other techniques such as x-ray based methods, differential electrochemical mass spectrometry, in-situ FT-IR, scanned probe microscopies, scanning electrochemical microscopy, low temperature conductance and spectroscopic techniques to address problems of electrochemical interest. Current areas of research include:

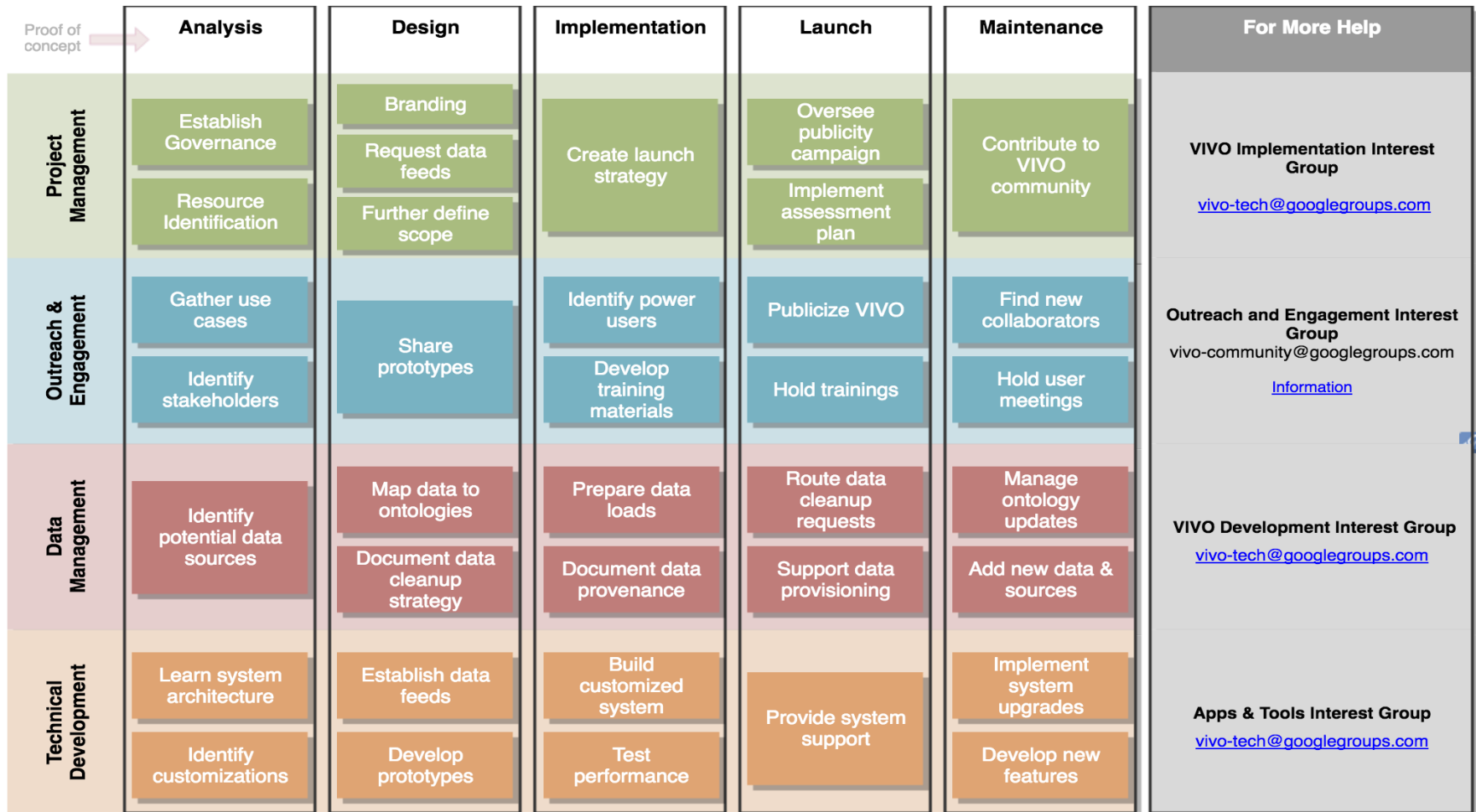
1. Fuel cells:
 - The use of ordered intermetallics, such as BiPt for the electrocatalytic oxidation of formic acid, methanol, ethanol and other small organic molecules of potential utility as fuels in fuel cells.
 - Use of Differential Electrochemical Mass Spectrometry (DEMS), in-situ FT-IR in for mechanistic studies related to fuel cells.
 - Development of in-situ TEM techniques for the study of fuel cell and battery materials
2. Electrical Energy Storage (EES): Batteries and Supercapacitors
 - Computational screening synthesis and characterization of organic molecules for EES
 - In-situ testing of battery systems using in-situ x-ray based technique (XRD, EXAFS, XANES)
 - Lithium/sulfur batteries



VIVO Basics: Implementation at Texas A&M

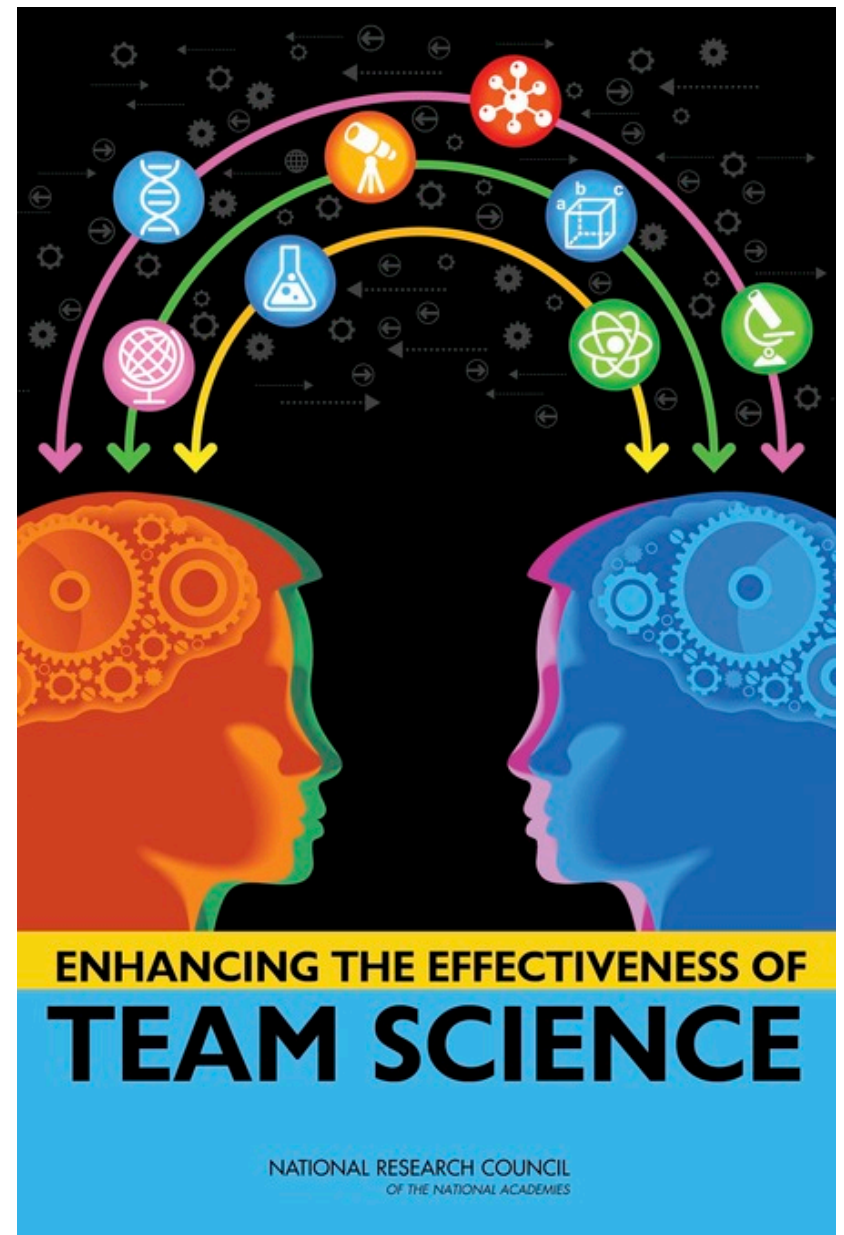
Dr. Bruce Herbert & Michael Bolton

VIVO Implementation



TAMU Use Cases

- Discovery of expertise when building collaborative teams
- Organizational practices for faculty, departments and colleges
- VPR and TEES Proposal development
- Research funding compliance
- Informing Society



TAMU Data Sources

HR: people and their positions

Symplectic Elements Harvester: Faculty Publications

Registrar: courses

Faculty reporting: awards, professional service, education, research areas, research blurb

Institutional Repository: ETDs, publications, grey literature

Events calendar

MARCOMM: internal and external news

Extension: outreach, technology transfer

Research administration: grants & contracts

Data Stewardship

Manage data at its appropriate source with appropriate privacy

HR, grants management, registrar, graduate school, colleges and schools, research centers, extension

Department/agency/division/geographic location/research unit

Consciously derive public data for exchange

Engage stakeholders and build relationships

Recruit power users for training and local knowledge

Data that are visible get corrected!

Policy Issues

Representing faculty reputations

Dirty data

Lack of common definitions of organizational structure or who's "faculty"

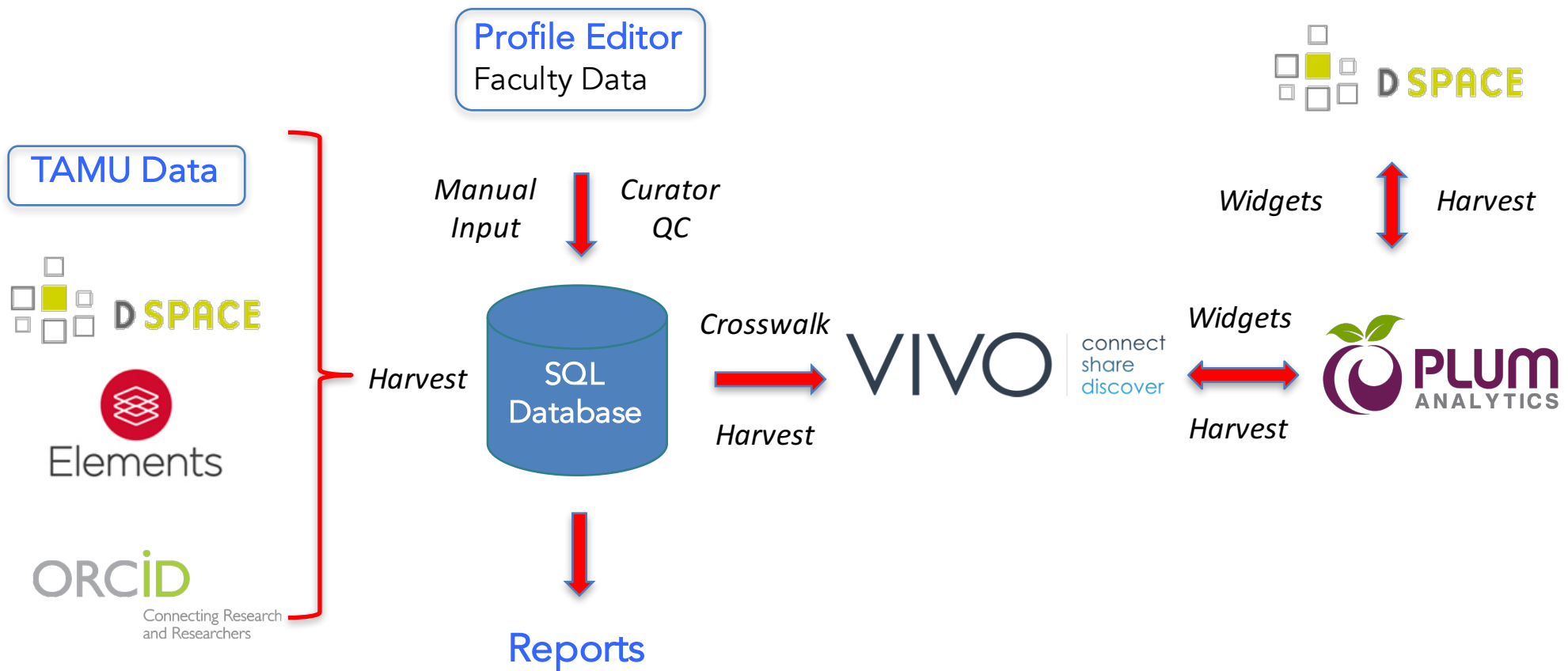
Data ownership

Many dimensions of privacy beyond simple "opt-in vs. opt-out"

Short-term "go it alone" vs. common good

Institutional risk

Researcher Profile Information Ecosystem



PLUMX Texas A&M University

Home / College of Liberal Arts / Department of Performance Studies / Jeffrey M. Morris

Jeffrey M. Morris
Associate Professor of Performance Studies, Studio Director, Director of Undergraduate Studies

Artifact Summary

- Video: 11
- Article: 3
- Conference: 2
- Chapters: 2
- Web resource: 2

Researcher from: College of Liberal Arts / Department of Performance Studies

Filter... Analytics

Impact by Type: All

Year	Title	Type	Captures	Social Media	Mentions	Usage
2015	Hudson Lanier, guitar playing for Ulrich Maiss mix on Weblogmusic	Video	+		1	13
2015	Jeff Morris, feedback mixer, for Ulrich Maiss mix on Weblogmusic	Video			1	4
2015	Jeff Morris, first track in Screen Capture mix for Weblogmusic	Video			1	3
2015	Jeff Morris playing first track of Live Sampling mix on Weblogmusic	Video			1	8
2015	PerfTech presents InterMEDIA Performance #2 2014—Installations	Video			1	13
2015	Exhale for Dance and Electroacoustic Music	Video				
2015	Fast Standing Still by Jeff Morris	Video				
2015	Sonic Glimpses, art installation	Video				
2014	Open House Chicago 2014: Airstream Building	Video		3		92
2014	Weblogmusic MG on UM Mix 20140604	Video				4
2014	Ferin Martino: A Small Piano Algorithm and Its Lessons on Creativity, Interaction, and Expression	Conference Paper				

Scholarly Impact Metrics Faculty Profiles in PlumX

Identity

Control

Evaluations

Strategic Decision Making




Best Practices for the Use of Scholarly Impact Metrics

No Thumbnail

Citation analysis and other bibliometric methods help justify your scholarly impact narrative by providing evidence of three characteristics of scholarship: scholarly output, scholarly impact, and the nature and development of scholarship over time or discipline. This guide provides research-based best practices for the use of scholarly impact metrics and recommendations on strategies to enhance the scholarly identity of researchers.

View/Open

 Guidelines for Scholarly Impact Metrics (249.0Kb)

Date
2016-02-10

Author
Herbert, Bruce

Metadata
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URI
<http://hdl.handle.net/1969.1/156054>

Subject
scholarly impact metrics, citations, bibliometrics



Department
University Libraries


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Citation
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OAKTrust: TAMU's Institutional Repository



Discussion: Use Cases & Stakeholders



VIVO Technical Aspects



VIVO Technical Aspects: Ontologies

Dong Joon Lee



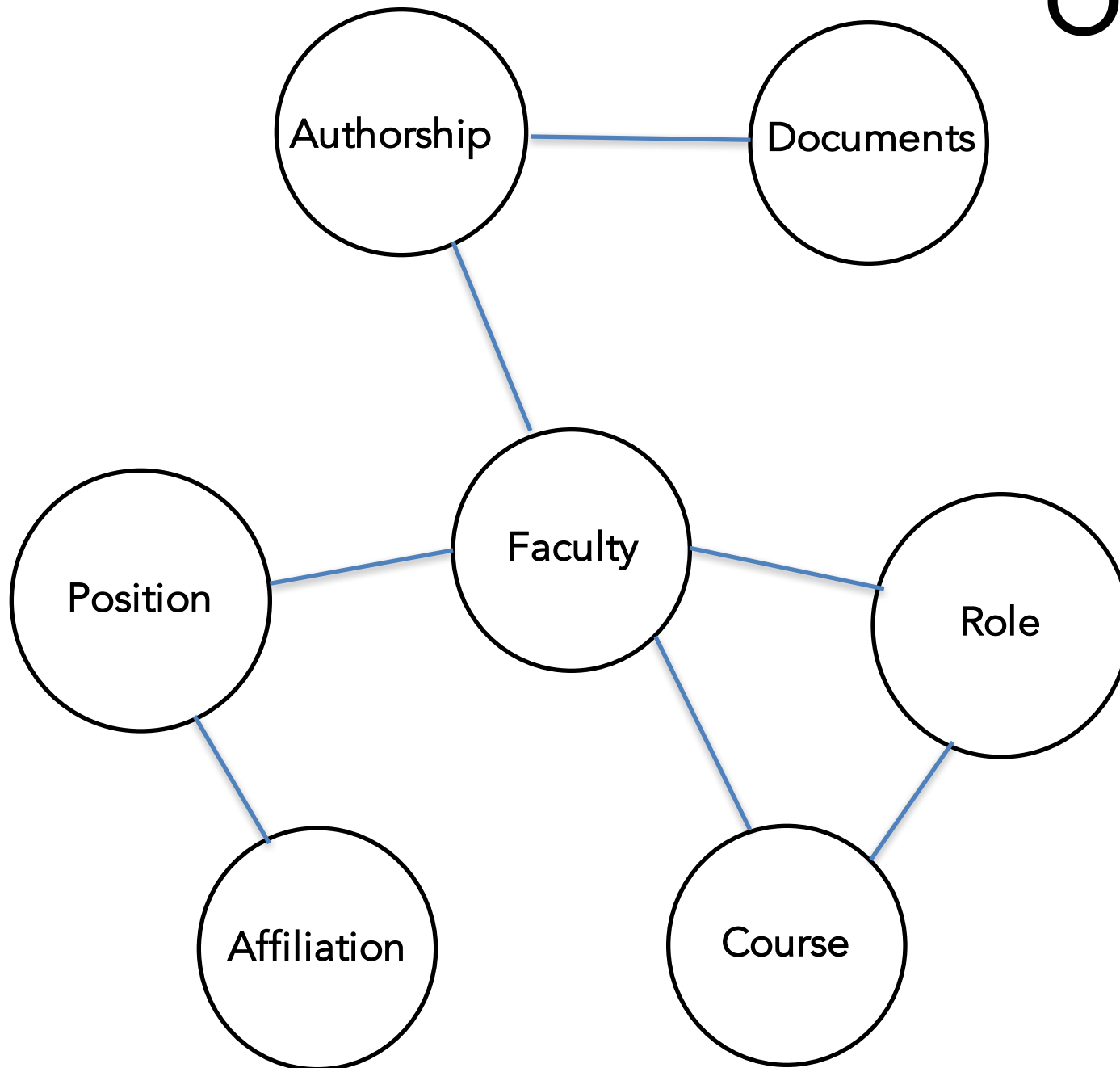
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What is Ontology?

- Ontology
 - A framework that defines a particular set of **concepts**, the **relationships** among them, and the nature of those relationships (Stewart, 2008)
 - An explicit and formal **specification** of a shared **conceptualization** (Gruber, 1993)

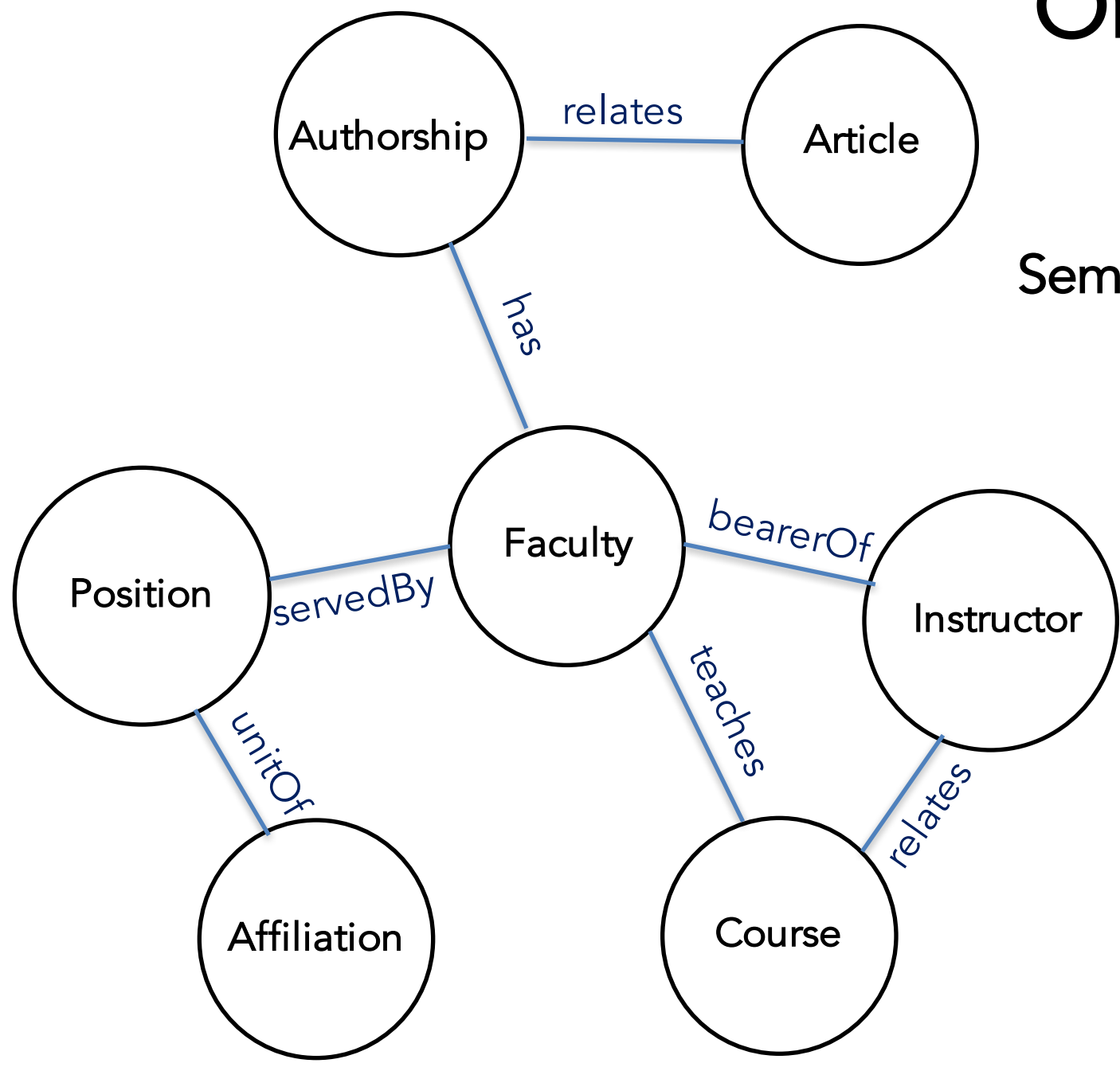
Ontologies

Concepts &
Relationships



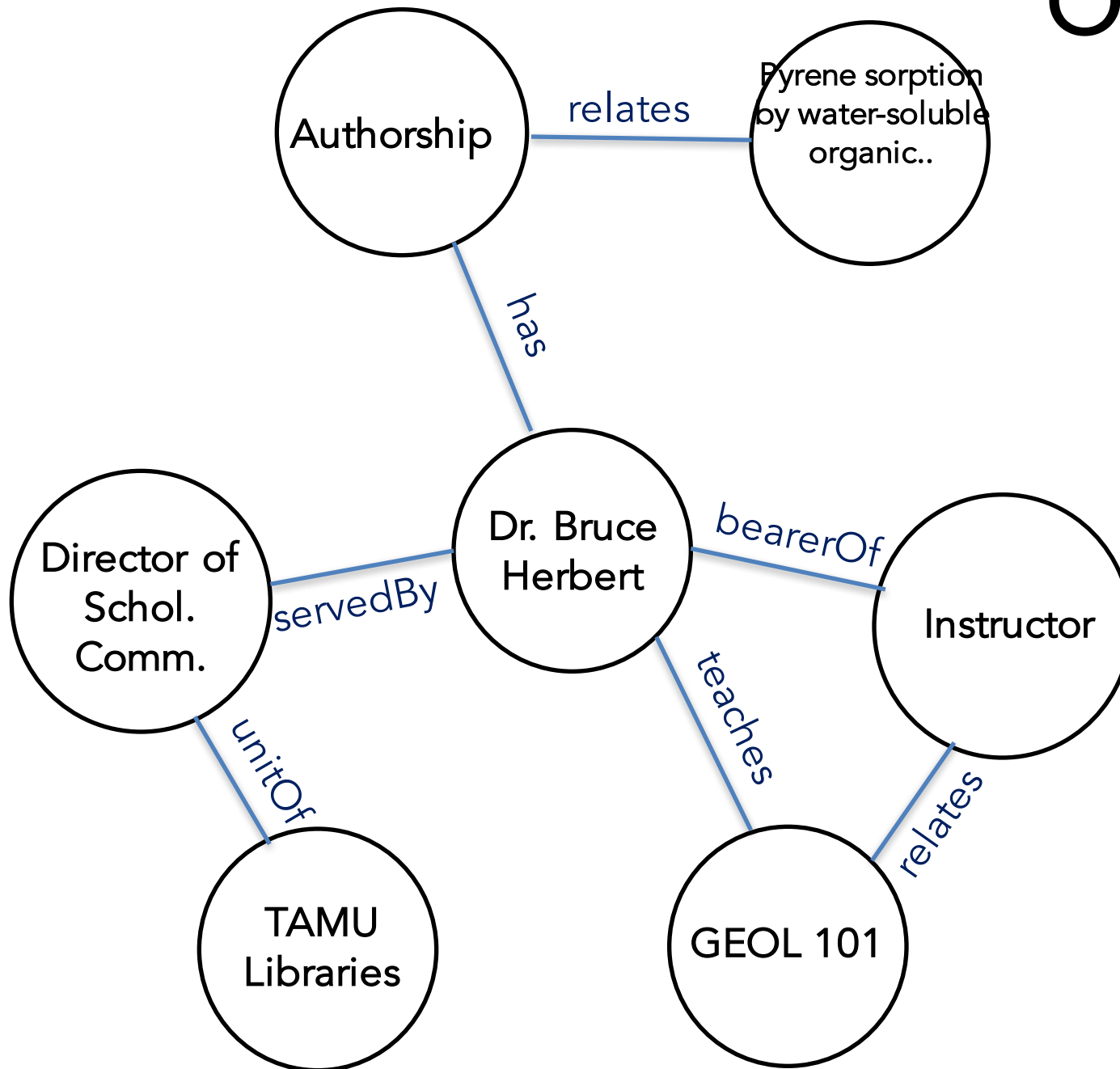
Ontologies

Semantically-typed relationships



Ontologies

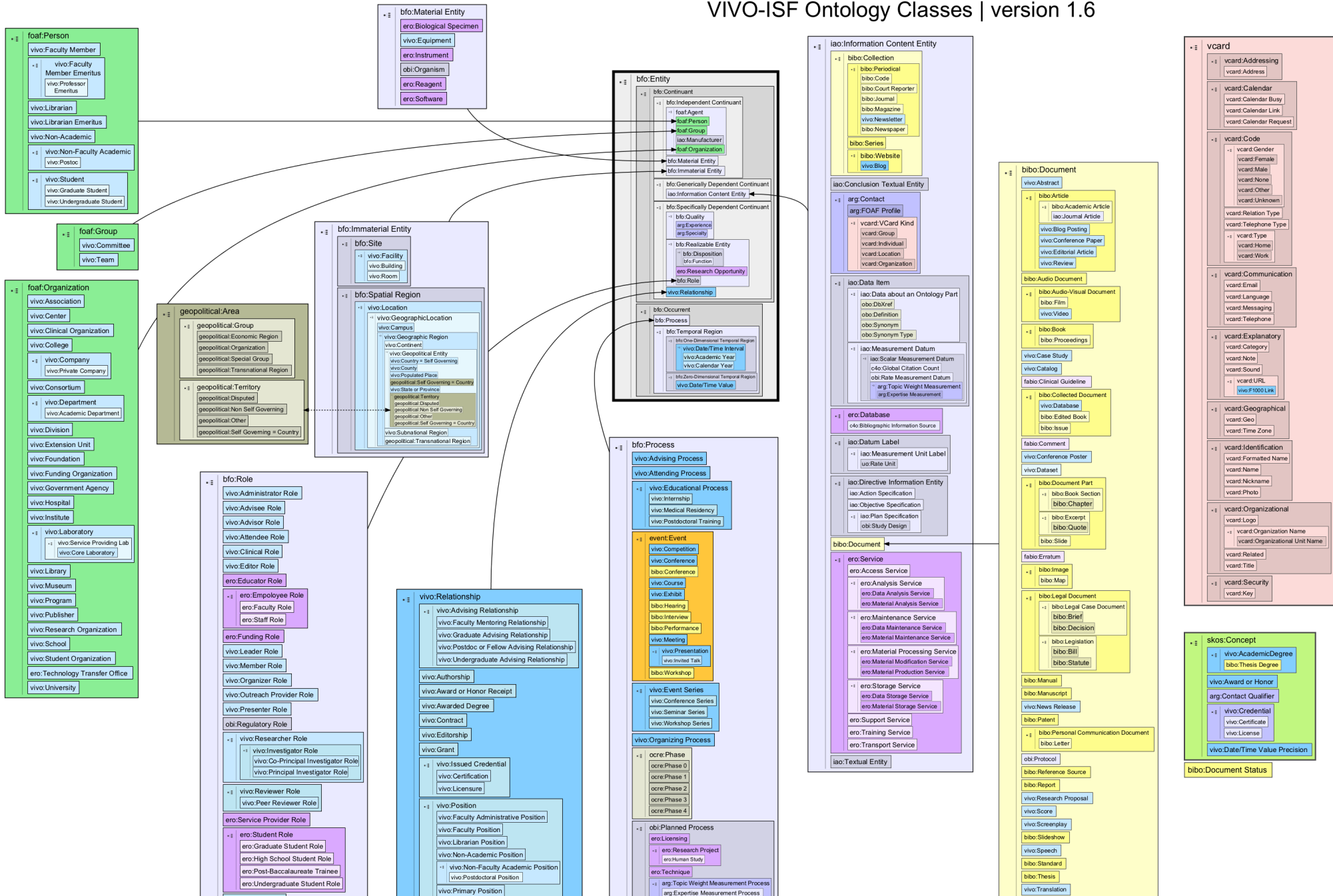
As a data map

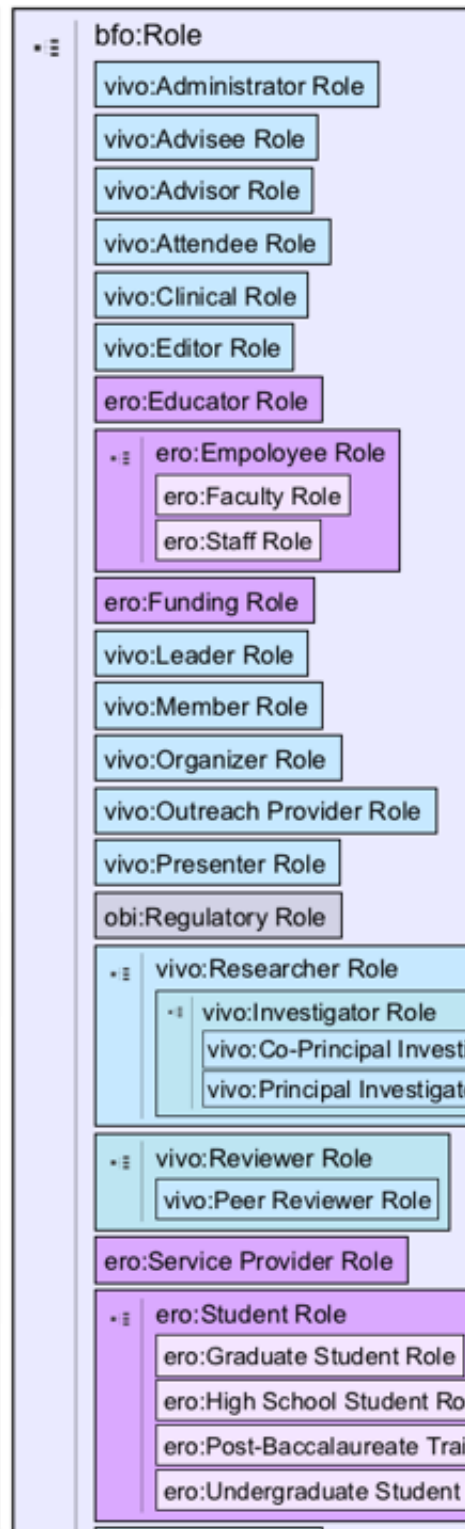
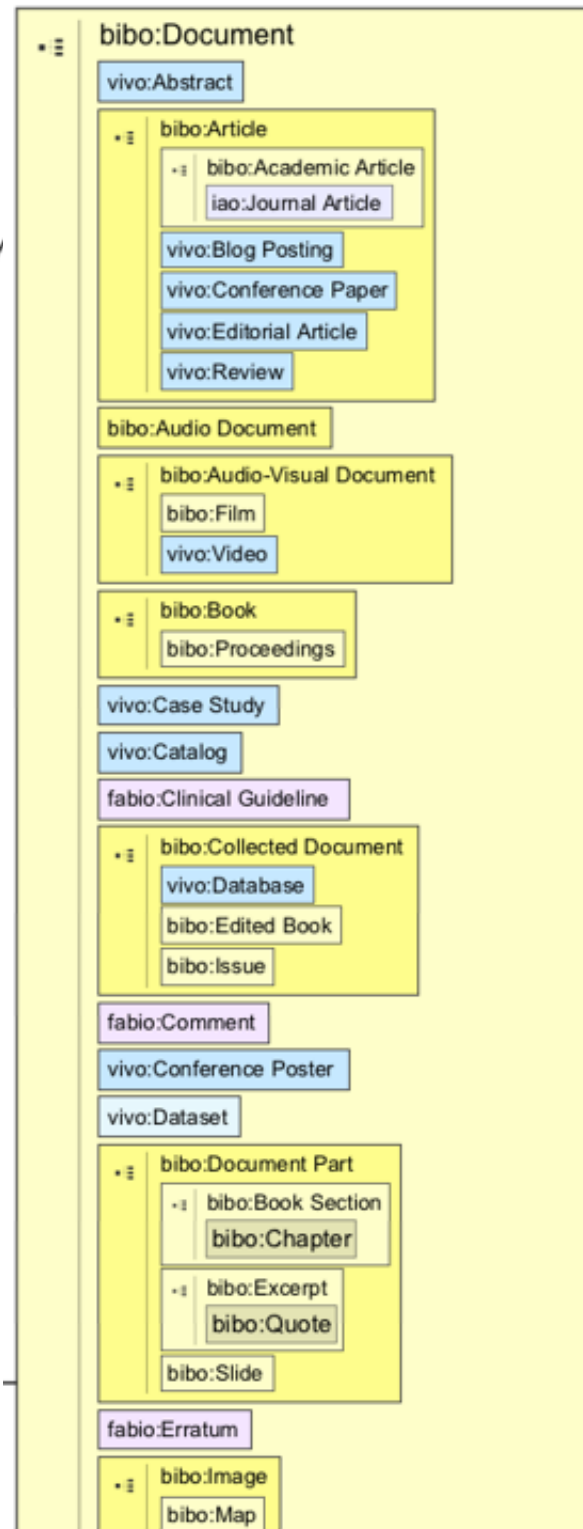
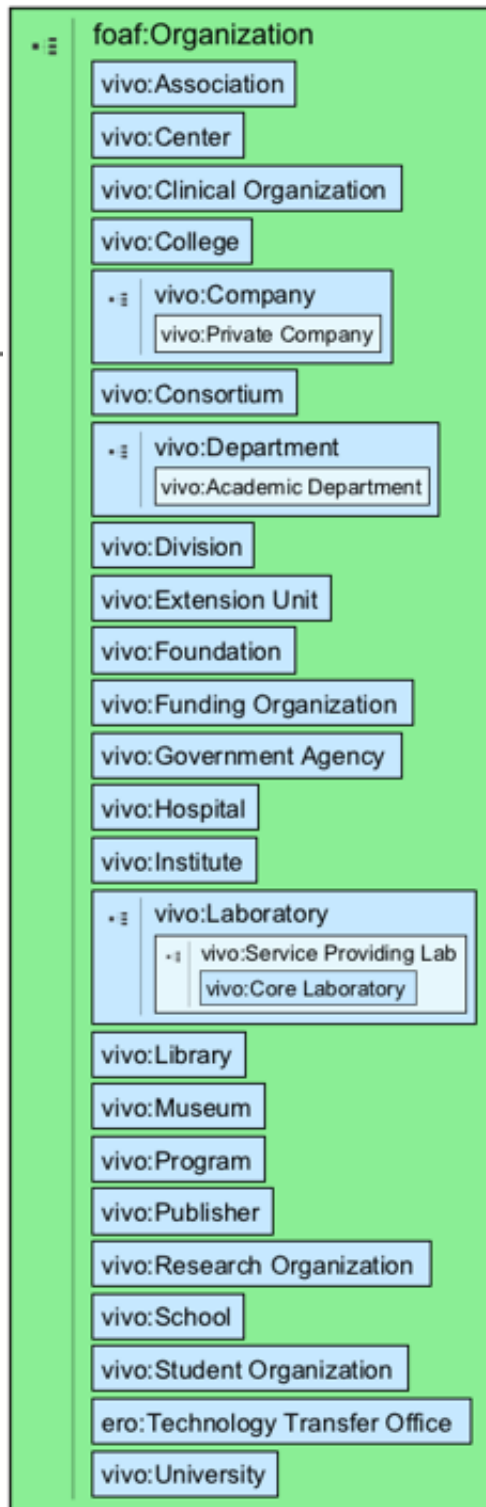
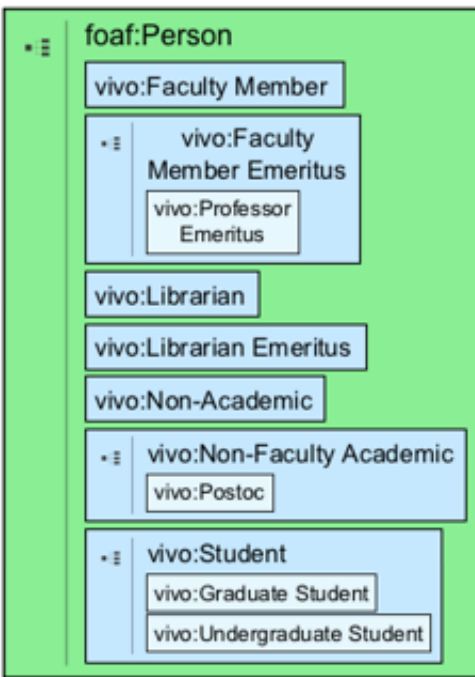


VIVO-ISF Ontology Classes

VIVO-ISF Ontology Classes | version 1.6

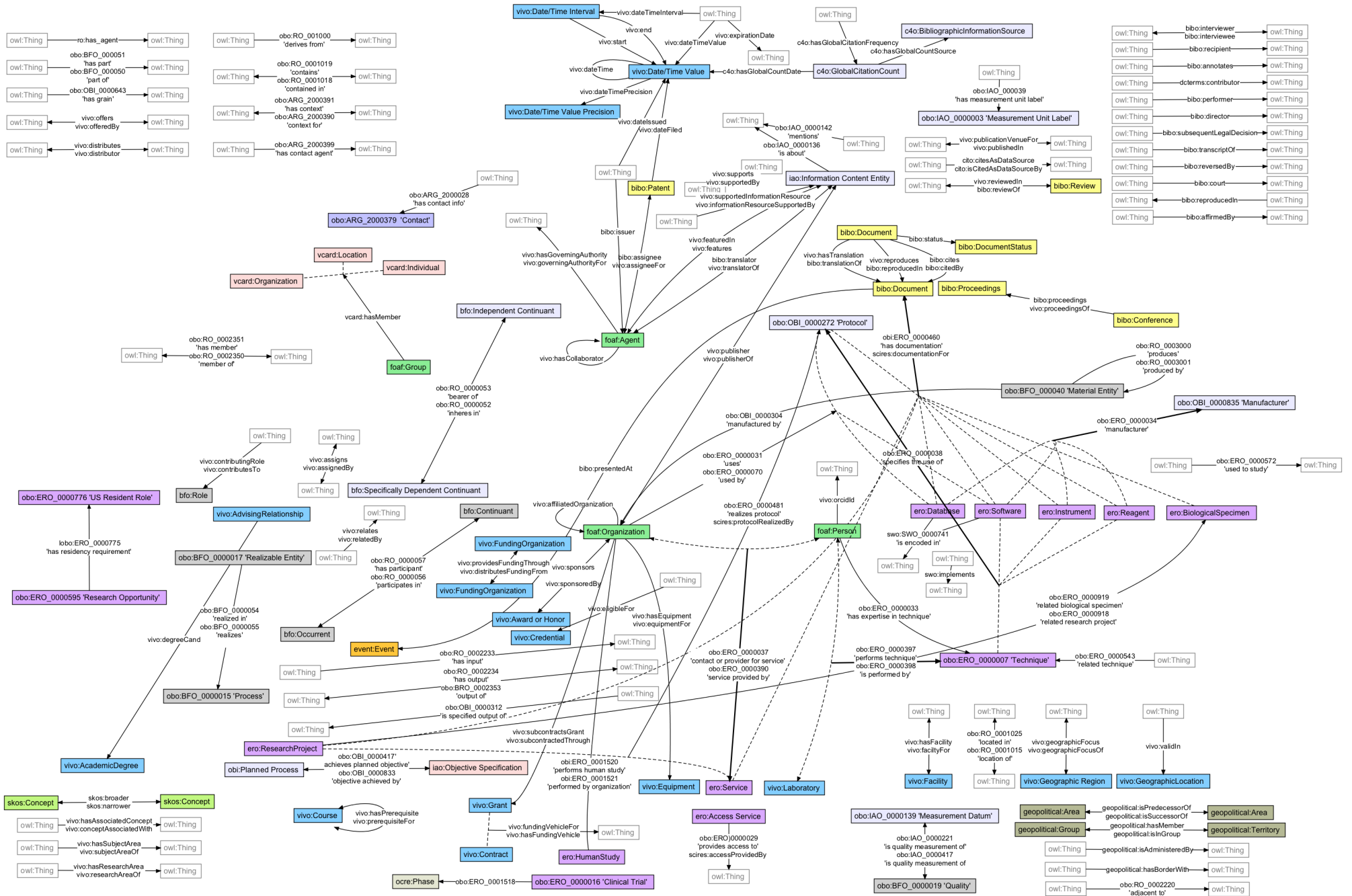
Updated 3/16/14





VIVO-ISF Ontology Object Properties

Updated 3/16/14



Why VIVO?

- Machine-readable Web?
- Defined concepts and relationships?
- Semantically-typed links?
- Data map?
- Searchable?

Mineralogy and Incipient Pedogenesis of Entisols in Anorthositic Terrane of the San Gabriel Mountains, California

R. C. GRAHAM,* B. E. HERBERT, AND J. O. ERVIN

ABSTRACT

Entisols on anorthositic and associated mafic dikes in the San Gabriel Mountains were examined to determine the influence of contrasting parent materials on soil mineralogy and incipient pedogenesis. Soils are shallow. Xerorthons on chaparral-covered slopes of 50 to 65% gradient. The anorthosite is composed almost entirely of plagioclase and laumontite; a hydrothermally produced Ca-rich zeolite, hornblende is the major constituent of the mafic rock, while plagioclase and laumontite are much less abundant. Soil properties are strongly influenced by the parent material. Soils on the aphanitic mafic rock have much higher silt contents than those on the coarse-grained anorthosite. Calcium dominates the exchange of soils on both lithologies, but exchangeable Mg values are higher in the mafic soil than in the soil on anorthosite. A soil pH of up to one unit higher in the anorthosite-derived soil is probably the result of the hydrolysis reaction in which the abundant, easily weathered plagioclase and zeolite weather to kaolin. Poorly crystalline kaolinite and halloysite are the dominant clay minerals in the anorthosite-derived soil. The soil developed from mafic rock contains a large proportion of well-crystallized triclinic smectite in addition to kaolin. The smectite is inherited from the mafic rock which has been somewhat hydrothermally altered. X-ray diffraction and optical analysis of the parent rock and soil fractions coarser than clay also detected smectite and averred its misinterpretation as pedogenic. Cation exchange capacities (CEC) that are excessively high for the amount and kinds of clay present are apparently caused by CEC contributions of smectite and zeolite in the silt and sand fractions. Slight weathering of hornblende is responsible for the citrate-bicarbonate-dithionite-extractable Fe, which is generally low, but is highest in the mafic soil and increases in A and AC horizons. The A and AC horizons of all soils exist in a quasi-stable colluvial mantle and have mineral components from both lithologic sources, whereas the mineralogy of C and Cr horizons reflect only the underlying rock. Denudation rates on the steep, chaparral-covered slopes indicate that no part of the soils, including the Cr horizons, can be older than 400 yr. Pedogenesis is inhibited by high erosion rates on this steep terrain.

R.C. Graham, B.E. Herbert, J.O. Ervin, Dep. of Soil and Environmental Sciences, Univ. of California, Riverside, CA 92521-0424. Received 20 Aug. 1987. *Corresponding author. Published in Soil Sci. Soc. Am. J. 52:738-746 (1988).

Additional Index Words: Parent material, Laumontite, Leonhardtite, Kaolin, Smectite, Hydrothermal alteration, Colluvium, Chaparral.

ENTISOLS are the least developed soils. They have undergone only slight change from their parent material and are characterized by a virtual absence of pedogenic horizons (Soil Survey Staff, 1975). Because of their lack of pedogenic differentiation, the nature of the parent material is a strong determinant of Entisol properties (Buol et al., 1980; Grossman, 1983). Mineral synthesis and alteration is generally considered to be minimal in Entisols, but there have been few mineralogical studies of soils in this order (Allen and Fanning, 1983).

Entisols are common in the San Gabriel Mountains of California, comprising >110 000 ha in this steep, tectonically active range (Ryan and Giger, 1989). These soils are an important component of the watershed immediately above the heavily populated Los Angeles metropolitan area. The relatively dry climate and steep topography with high erosion rates (Anderson et al., 1959; Morton, 1973) are factors which limit the development of soil horizons (Buol et al., 1980). In this setting, soils developed on an anorthositic body intruded by mafic dikes were examined to determine the influence of contrasting parent materials on soil mineralogy and incipient pedogenesis in Entisols. The other soil-forming factors, climate, biota, topography, and time, were constant.

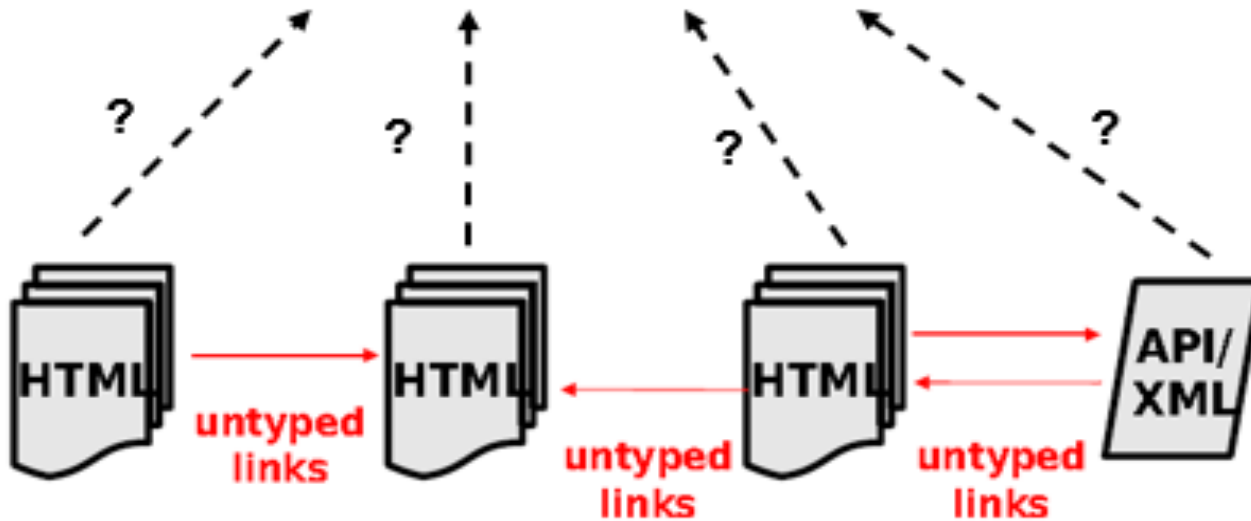
ENVIRONMENTAL SETTING

The San Gabriel Mountains are a NW-SE trending range 100 km long by a maximum of 38 km wide and are part of the Transverse Ranges geomorphic province (Fig. 1). They are transected by numerous fault, shear, and shatter zones (Bailey and Johns, 1954; Ehlig, 1981). The range rises from an elevation of about 150 m at the base of the south face to

Title: Mineralogy and incipient pedogenesis...
Author: Bruce Herbert,
Date: 1988
Institution: University of California



Geologist



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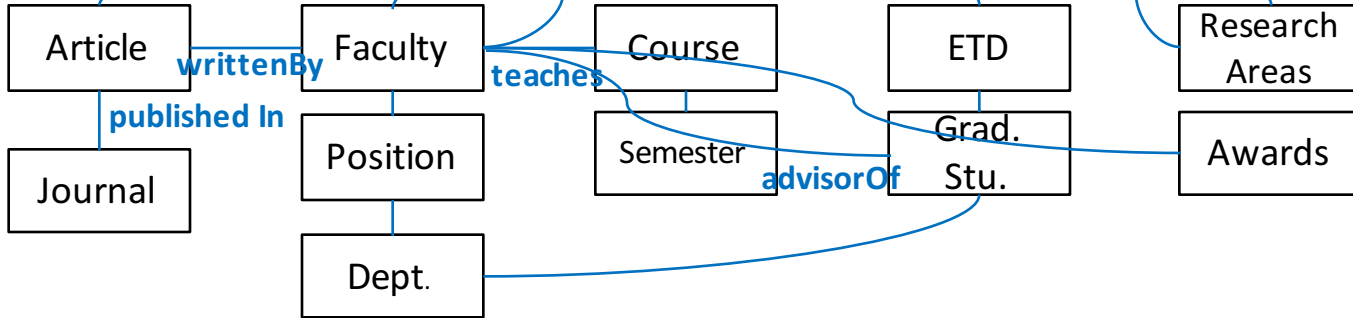
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Institution: University of California





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Positions

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Affiliation

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has collaborator

clinical activities

attended event

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selected publications

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Research

research overview

principal investigator on

co-principal investigator on

investigator on

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Additional Index Words: Parent material, Laumontite, Leonhardtite, Kaolin, Smectite, Hydrothermal alteration, Colluvium, Chaparral.

ENTISOLS are the least developed soils. They have undergone only slight change from their parent material and are characterized by a virtual absence of pedogenic horizons (Soil Survey Staff, 1975). Because of their lack of pedogenic differentiation, the nature of the parent material is a strong determinant of Entisol properties (Buol et al., 1980; Grossman, 1983). Mineral synthesis and alteration is generally considered to be minimal in Entisols, but there have been few mineralogical studies of soils in this order (Allen and Fanning, 1983).

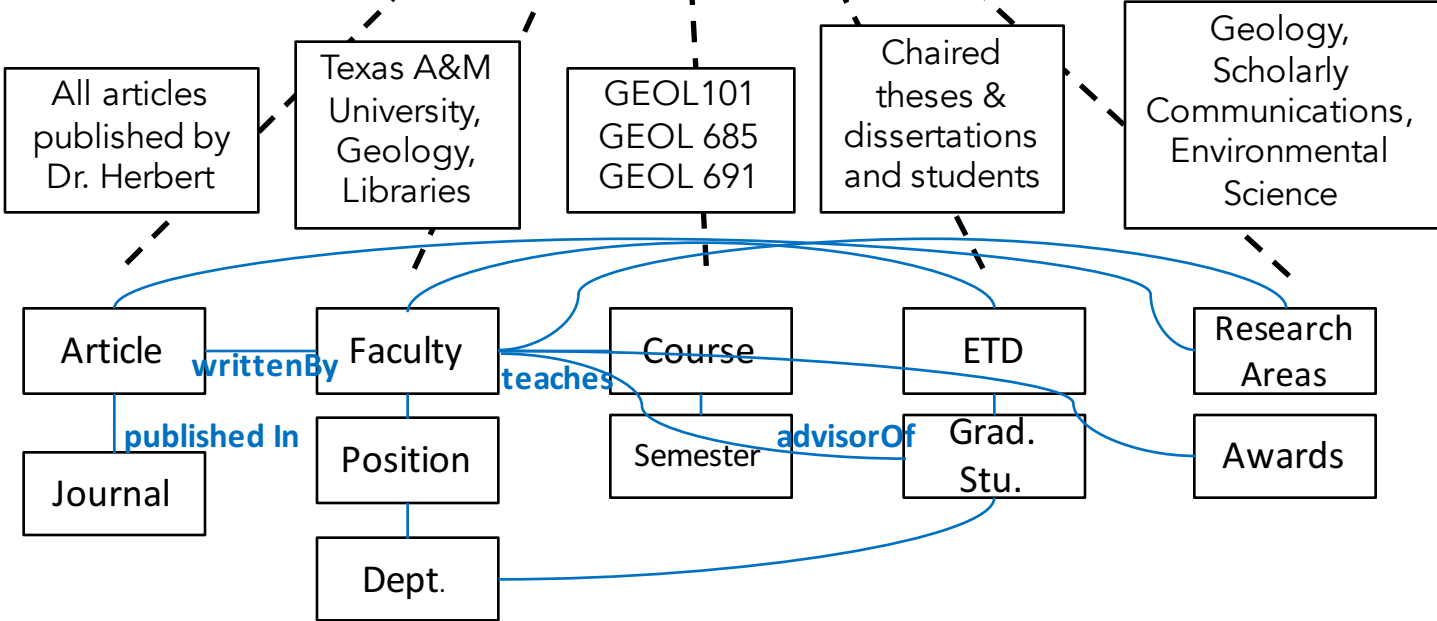
Entisols are common in the San Gabriel Mountains of California, comprising >110 000 ha in this steep, tectonically active range (Ryan and Giger, 1989). These soils are an important component of the watershed immediately above the heavily populated Los Angeles metropolitan area. The relatively dry climate and steep topography with high erosion rates (Anderson et al., 1959; Morton, 1973) are factors which limit the development of soil horizons (Buol et al., 1980). In this setting, soils developed on an anorthosite body intruded by mafic dikes were examined to determine the influence of contrasting parent materials on soil mineralogy and incipient pedogenesis in Entisols. The other soil-forming factors, climate, biota, topography, and time, were constant.

ENVIRONMENTAL SETTING

The San Gabriel Mountains are a NW-SE trending range 100 km long by a maximum of 38 km wide and are part of the Transverse Ranges geomorphic province (Fig. 1). They are transected by numerous faults, which create topographic zones (Bailey and Johns, 1944; Johnson, 1981). The range rises from an elevation of about 150 m at the base of the south face to

R.C. Graham, B.E. Herbert, J.O. Ervin, Dep. of Soil and Environmental Sciences, Univ. of California, Riverside, CA 92521-0424. Received 30 Aug. 1987. *Corresponding author. Published in Soil Sci. Soc. Am. J. 52:738-746 (1988).

Title: Mineralogy and incipient pedogenesis...
 Author: Bruce Herbert,
 Date: 1988
 Institution: University of California



Ontologies provide data



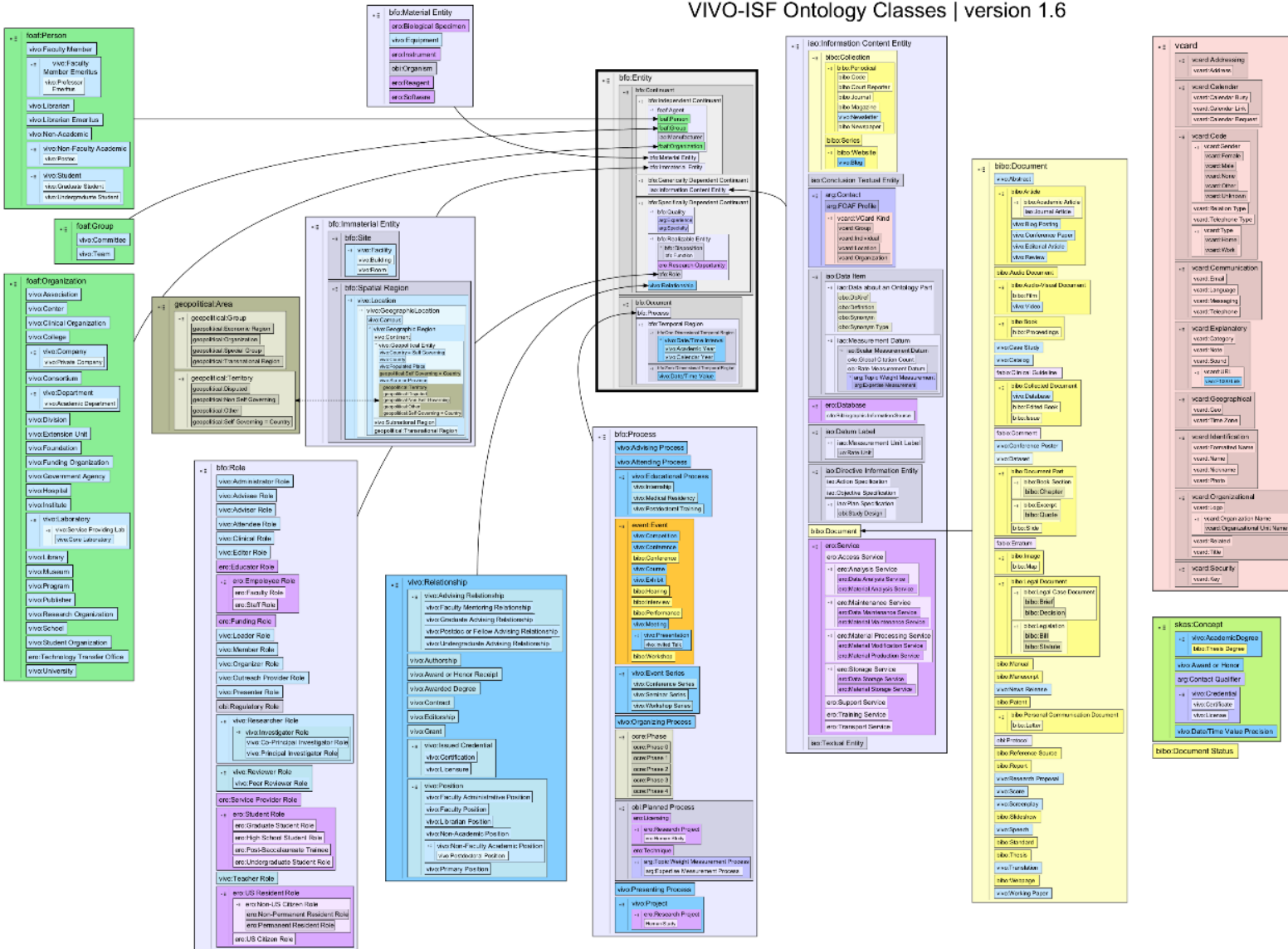
Source: Bizer, Chris. The Emerging Web of Linked Data



VIVO-ISF Ontology Classes

Updated 3/16/14

VIVO-ISF Ontology Classes | version 1.6



Elements

TAMU
HR

TAMU
Registrar

DSPACE



Faculty reporting

Question: Can I modify ontologies for my institution?

- Answer: YES

Scenario: Faculty wants to have a list of their chaired theses and dissertations with the students' names.

- Relationship between Faculty and Theses
- Not a relationship between Faculty and Students
- Faculty's Role on students' theses



bfo:Role

vivo:Administrator Role

vivo:Advisee Role

vivo:Advisor Role

vivo:Attendee Role

vivo:Clinical Role

vivo:Editor Role

ero:Educator Role

- ero:Empoloyee Role
 - ero:Faculty Role
 - ero:Staff Role

ero:Funding Role

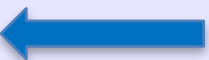
vivo:Leader Role

vivo:Member Role

vivo:Organizer Role

vivo:Outreach Provider Role

vivo:Presenter Role



obi:Regulatory Role

- vivo:Researcher Role
 - vivo:Investigator Role
 - vivo:Co-Principal Investigator Role
 - vivo:Principal Investigator Role

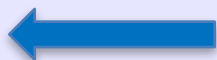
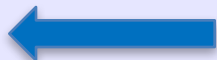
- vivo:Reviewer Role
 - vivo:Peer Reviewer Role

ero:Service Provider Role

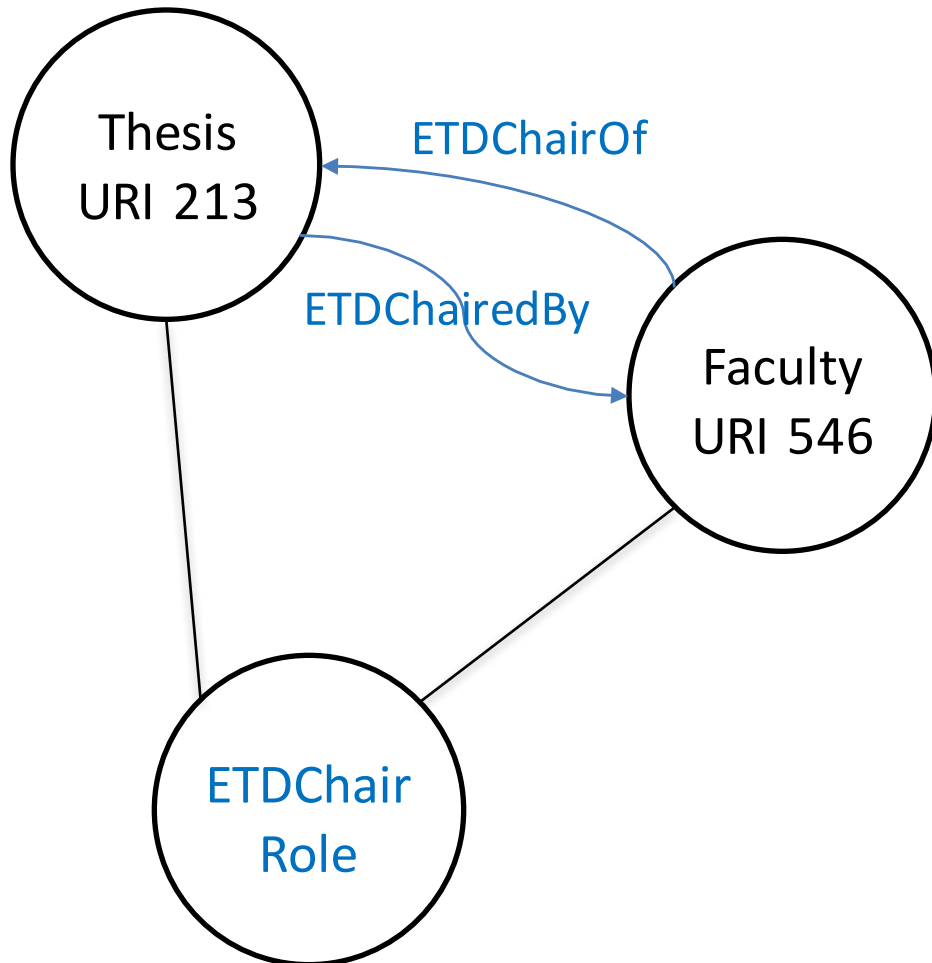
- ero:Student Role
 - ero:Graduate Student Role
 - ero:High School Student Role
 - ero:Post-Baccalaureate Trainee
 - ero:Undergraduate Student Role

vivo:Teacher Role

- ero:US Resident Role
 - ero:Non-US Citizen Role
 - ero:Non-Permanent Resident Role
 - ero:Permanent Resident Role
 - ero:US Citizen Role



"ETDChairRole" in your Ontology



The screenshot shows a VIVO profile page for Bruce Herbert. The page includes a navigation bar with "VIVO connect • share • discover" and a search bar. The main content area displays the user's name "Herbert, Bruce" and various details:

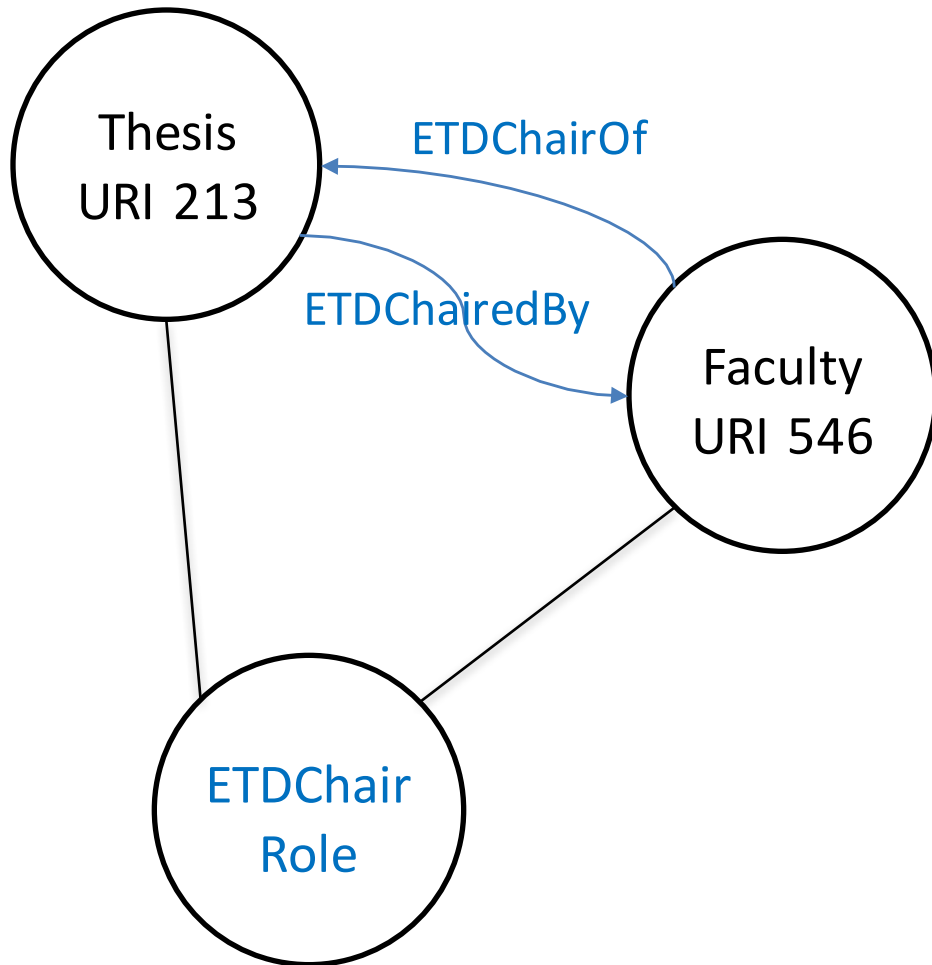
- Admin Panel**: Edit this individual, Verbose property display is off | Turn on
- Resource URI**: <http://osd132.library.tamu.edu/individual/nf489b17d>
- Preferred Title**: Professor
- Positions**: Faculty, University Libraries
- Research Areas**: geology (AGROVOC), sheep (AGROVOC)
- Geographic Focus**

At the bottom, a tabbed interface shows "Chaired ETD" selected, displaying a list of chaired ETDs:

- [Artan, Sinem \(2011-05\). Aeolian Delivery of Organic Matter to a Middle Permian Deepwater Ramp](#)
- Thesis

A blue arrow points from the "Chaired ETD" tab to the list of chaired ETDs.

“ETDChairRole” in your Ontology

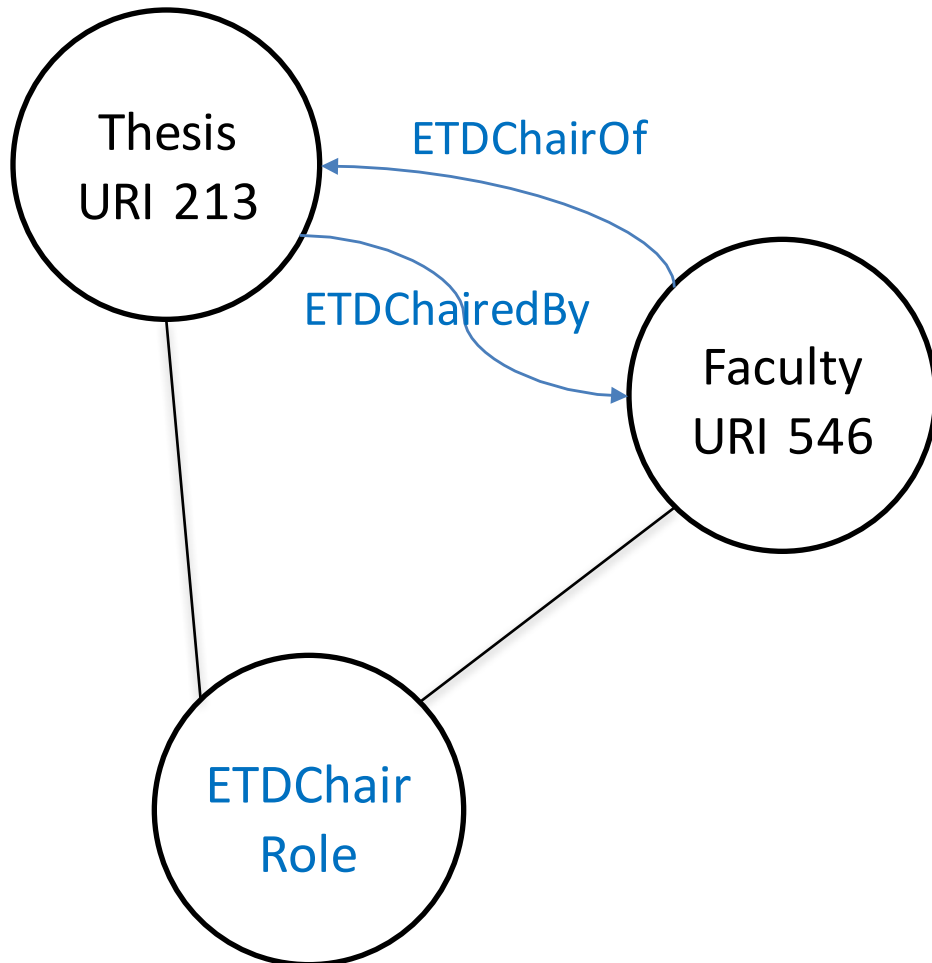


Resource Description Framework (RDF)

- One simple data model for publishing structured data on the Web
- A simple graph-based data model (RDF Triples)

“ETDChairRole” in your Ontology

Resource Description Framework (RDF)



Subject	Predicate	Object
ETDChairRole	label	ETD Chair Role
ETDChairRole	supClassOf	Role (BFO_0000023)
ETDChairRole	type	Class

S <<http://vivo.library.tamu.edu/ontology/TAMU#ETDChairRole>>
P <<http://www.w3.org/2000/01/rdf-schema#subClassOf>>
O <http://purl.obolibrary.org/obo/BFO_0000023>

Subject	Predicate	Object
URI_etdChairOf	type	Object Property
URI_etdChairOf	inverseOf	etdChairedBy
URI_etdChairOf	label	Chaired ETD

Data Modelling

- Using Karma Data Integration Tool
- A semantic modeling tool to visualize data with ontologies

	A	B	C	D	E
1	ThesisID	Title	FacultyID	f_name	l_name
2	a023	Aeolian Delivery of Organic	943	Bruce	Herbert
3					
4					

* Data only for Karma visualization, not a real data

Data Modeling

- Using Karma Data Integration Tool
- A semantic modeling tool to visualize data with ontologies

Karma v2.025 Import Manage Models Reset ...

Command History

- Import Ontology: Bibontology.rdf
- Import Ontology: Event Ontology.rdf
- Import Ontology: FOAF (Friend of a Friend).rdf
- Import Ontology: OBO Foundry.rdf
- Import Ontology: SKOS (Simple Knowledge Organization System).rdf
- Import Ontology: VIVO Core.rdf
- Import Ontology: TAMU.rdf
- Import Excel File: test_thesisdata.xlsx
- Set Semantic Type (MetaProperty): ThesisID
- Set Semantic Type: Title
- Set Semantic Type (MetaProperty): FacultyID
- Set Semantic Type: f_name
- Set Semantic Type: l_name

test_thesisdata_Sheet1 UTF-8

Name: test_thesisdata_Sheet1 | Prefix: s | Base URI: http://localhost:8080/source/

ETDChairRole2

RO_0000052

FacultyMember2

relates ETDChairOf

Thesis1

uri label uri givenName familyName uri

ThesisID	Title	FacultyID	f_name	l_name	ETDChairRole_uri
a023	Aeolian Delivery of Organic	943	Bruce	Herbert	http://vivo.library.tamu...

Karma sources: [DuraSpace](#), [USC](#), [How-to-use guide](#)



VIVO Technical Aspects: Data Workflow

Douglas Hahn

Manage the unit tasked with helping figure out how to do...

VIVO connect • share • discover

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Stru

Herbert, Bruce | Professor

Publications in VIVO

Positions

- Faculty, [Geology and Geophysics](#)
- Faculty, [University Libraries](#)

[Co-author Network](#)

[Map of Science](#)

Contact Info

beherbert@tamu.edu

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selected publications

academic article

[Arsenic risk assessment: The importance of speciation in different hydrologic systems.](#) *Water, Air, and Soil Pollution.*

[Biodegradation rates of separated diesel components.](#) *Environmental Toxicology and Chemistry.*

[Cation- \$\pi\$ bonding: A new perspective on the sorption of polycyclic aromatic hydrocarbons to mineral surfaces.](#) *Journal of Environmental Quality.*

[Characterization of biodegradation rates of separated diesel components.](#) *ACS Division of Environmental Chemistry, Preprints.*

LIBRARIES TEXAS A&M UNIVERSITY

A Brief History: Initial Implementation

Currently, we are on our second ramp up of a VIVO installation.

We were introduced to VIVO a few years ago and immediately saw the potential for its use.

So like anyone with a new toy. We started digging up any dataset we could find and load them into VIVO.

Initial Datasets

People and Organizations

Human Resources Data

Feeds

Academic Analytics

Scholars
/ People

Organizations

Publications/
Scholarly
Works

Everything
else we could
find...



4d089ebc4e8	5b43f7162	51	4	jjonalzo	Alonzo Juan J	jjonalzo@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR	
d9e457563d0	85a66dc57	91	1	nhattac	Bhattacharya Wandini	nhattac@tam.u.edu	Faculty English	PROFESSOR	
07b741e3dd3	2aed9dcff	5c	7	r-boenig	Boenig Robert E	r-boenig@tam.u.edu	Faculty English	PROFESSOR	
48d864e5a4a	a9e75ff71	8c	3	wbclark	Clark William B	wbclark@tam.u.edu	Faculty English	PROFESSOR	
1455dc6ef43	1	ArticleId	ArticleTitle	JournalName	ArticleYear	JournalVolume	JournalIssue	JournalFirstPage	JournalLastPage
a9fcbf9e7fd	2	639	Characterization Of Fate And Transport Of Isoxaflutole A Soil-applied Corn Herbicide In Surface Water Using A Waters						
b0d66da2b1d	3	659	Comparison Of A Subjective And A Physical Approach For Identification Of Priority Areas For Soil And Water Managemer						
74da1438ff5	4	693	Impact Of Climate Change On The Hydroclimatology Of Lake Tana Basin Ethiopia: Impact Of Changing Climate On Water Re						
b0a5cd43adef	5	677	Estimating Uncertainty Of Streamflow Simulation Using Bayesian Neural Networks	Water Resources Research	2009				
315db0c7667	6	670	Modeling Blue And Green Water Availability In Africa	Water Resources Research	2008	44	7	10.1029/	
818c0a64617	7	5237086	Arcgis-swat: A Gis Interface For The Soil And Water Assessment Tool (swat)	Critical Transitions In Water And Er					
a0b20045f5d	8	7168172	Modeling Sedimentation-filtration Basins For Urban Watersheds Using Soil And Water Assessment Tool	Journal Of F					
48b10200127	9	7292478	Application Of A Swat Model For Hydrological Modeling In The Xixian Watershed China	Journal Of Hydrologic Engine					
b8b0eb57b9f	10	7292504	Hydrologic Modeling Of A Retention Irrigation System	Journal Of Hydrologic Engineering	2014				
b45431e045b	11	7168071	Hydrologic Modeling Of A Canal-irrigated Agricultural Watershed With Irrigation Best Management Practices: Case						
34300fee109	12	662	Rainfall And Temperature Distinguish Between Karnal Bunt Positive And Negative Years In Wheat Fields In Texas	Phyt					
27b47818a94	13	629	Potential Of Radar-estimated Rainfall For Plant Disease Risk Forecast	Phytopathology	2005	95	1	25	27
5e04e9222d3	14	646	Assessment Of Regional Site-specific Sorghum Ergot Severity Potential Using Radar-rainfall Measurement	Plant Diseas					
c54a1e392e9	15	627	A Gis-coupled Hydrological Model System For The Watershed Assessment Of Agricultural Nonpoint And Point Sources Of I						
	16	644	Surveying Ground Water Level Using Remote Sensing: An Example Over The Seco And Hondo Creek Watershed In Texas	Grou					
	17	650	Groupwise Modeling Study Of Bacterially Impaired Watersheds In Texas: Clustering Analysis	Journal Of The American					
	18	666	Runoff Simulation Of The Headwaters Of The Yellow River Using The Swat Model With Three Snowmelt Algorithms 1	Jou					
	19	648	Arcgis-swat: A Geodata Model And Gis Interface For Swat	Journal Of The American Water Resources Association	2006				
	20	678	Approximating Swat Model Using Artificial Neural Network And Support Vector Machine	Journal Of The American Water Re					
	21	660	Evaluation Of Three Watershed-scale Pesticide Environmental Transport And Fate Models: Evaluationof Three Watershec						
	22	7168054	Estimating Potential E. Coli Sources In A Watershed Using Spatially Explicit Modeling Techniques: Estimating Pc						
	23	7168066	Modeling Of Sediment Yield From Rain-fed Watershed Using Soil Water Assessment Tool (swat) Model	Journal Of The American Water					



Initial VIVO @ TAMU

VIVO connect • share • discover

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[Rupley, William H.](#)

[Chen, Zhilei](#)

[Carter Sowell, Adrienne R.](#)

[Dexter, Rayna M.](#)

[View all ...](#)

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- › Architecture
- › Aerospace Engineering
- › Hispanic Studies
- › Geography
- › Veterinary Physiology and Pharmacology

[View all ...](#)

Statistics

3.6 _k	4	107	37 _k	316
People	Events	Organizations	Research	Locations

Within a short amount of time We quickly had a VIVO instance running.

We had loaded ~ 4K people.
37K publications.

We had no idea how to manage it, or what data was actually loaded in it.

An Opportunity to Start Over

Shortly after our initial launch of VIVO we experienced quite a lot of staff turnover.

We took this opportunity to re-evaluate how we were using VIVO and what we wanted out of it.

We wanted quality data, and the ability produce intelligent reports. To ensure this it was determined additional staff would be required.

Target Specific Data

For the second go round we intend to

- Target specific data.
- Develop tools, and workflows to manage the data.
- Stay focused and not chase new and “exciting” data at the expense of the quality of the existing data.

TAMU Data

- LDAP
- Directory
- Registrar (courses)
- MAESTRO (grants)
- MARCOMM (news)
- DSpace (ETDs)

External Data

- Symplectic Elements
- Academic Analytics
- ORCID Profiles

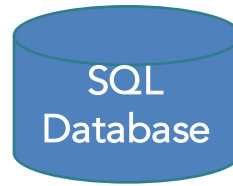
VIVO | connect
share
discover

Specific Tools: Clean the Data

Clean Up Normalize Data
with a variety of tools

64099bec4e6	5b49f7162	51	4	jjalono	Alonso	Juan	J	jjalono@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
6bc45756300	85a69d57f	91	1	nhattac	Bhattacharya	Mandini	nhattac@tam.u.edu	Faculty English	PROFESSOR	
07b741a3883	0aee05d4ff	50	7	r-boeniq	Boenig Robert	E	r-boenig@tam.u.edu	Faculty English	PROFESSOR	
468946e5a4a	ab9754f71	80	3	wclark	Clark William	B	wclark@tam.u.edu	Faculty English	PROFESSOR	
1455dc6e493	1f7ea7616	90	7	mikec	Collins Michael	S	mikec@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR	
ab9cd49e7bd	395e91371	82	0	rcooperl	Cooper Rich	P	rcooperl@tam.u.edu	Faculty English	LECTURER	
3d0646a2d1d	e70d81807	21	3	delnegro	Delnegro	Giovanna	P	delnegro@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
746a1430f55	53016ab53	80	2	d-dickson	Dickson Donald	R	d-dickson@tam.u.edu	Faculty English	PROFESSOR	
0ba5c043aaf	316e76244	20	3	nmara	d'Allessio Nicole	M	ndallessio@tam.u.edu	Faculty English	LECTURER	
315abdc7667	ea4930f93	62	0	idworkin	Dworkin Ira	M	idworkin@tam.u.edu	Faculty English	ASSISTANT PROFESSOR	
810c0a64617	030c912e9	90	5	aearthar	Earhart Amy	E	aearthar@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR	
ad20045f55d	e039fb3ee	30	2	s-egenolf	Egenolf Susan	B	s-egenolf@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR	
49c10200127	aa2d6bd00	50	9	mdeide	Eide Marian	mdeide@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR		
2640e6708f	ce90e602f	42	0	lestill	Estill Laura	A	lestill@tam.u.edu	Faculty English	ASSISTANT PROFESSOR	
045431e045b	041eac2af	90	0	m-ezell	Etzell-Hainner	Margaret	m-ezell@tam.u.edu	Faculty English	DISTINGUISHED PROFESSOR	
3430f9ae109	0bc50c2b0	11	0	rjgriffin	Griffin Robert	J	rjgriffin@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR	
27b47610a94	c1709e150	30	5	j-hammah	Hammah James	R	j-hammah@tam.u.edu	Faculty English	PROFESSOR	
5e9e92222ab	c5011e174	72	2	jharris	Harris Jason	M	jharris@tam.u.edu	Faculty English	LECTURER	
c54a1e39269	ic5ae4ff5b	40	3	c-hawkins	Hawkins Cecilia	E	c-hawkins@tam.u.edu	Faculty English	INSTRUCTIONAL PROFESSOR	

Raw Data



Create various databases
with authoritative lists

Use OpenRefine, basic
programmatic scripts, and other
text manipulating tools for Dirty
Data.

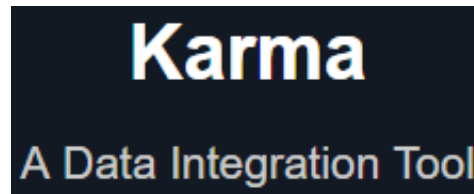
The goal is a well documented, and reproducible workflow for dealing with raw data. Producing standardized data sets for working with VIVO.

Specific Tools: Model the Data

Clean Data

40894e4e48	5849f7162	51	4	jjalanzo	Alonzo Juan J	jjalanzo@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
4b4477563d0	83a60d457	91	1	shattac	Bhattacharya Mandini	shattac@tam.u.edu	Faculty English	PROFESSOR
076741e3d63	2ae95d4ff	91	7	r-boonig	Boonig Robert E	r-boonig@tam.u.edu	Faculty English	PROFESSOR
4048f4e54e6	a9e754f71	81	3	wolclark	Clark William B	wolclark@tam.u.edu	Faculty English	PROFESSOR
3455d6e4943	147ea7616	91	7	mikec	O'Connell Michael G	mikec@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
a950d9e765d	395e91571	82	0	ecoooper	Cooper Rich P	ecoooper@tam.u.edu	Faculty English	LECTURER
bb4664a21d1d	e70891807	21	3	delnegro	Delnegro Giovanna P	delnegro@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
746a14384f5	55104e653	81	2	d-dickson	Dickson Donald B	d-dickson@tam.u.edu	Faculty English	PROFESSOR
b7a5d943eaf	316e73244	21	3	mmara	duPlessis Nicole M	nduplessi@tam.u.edu	Faculty English	LECTURER
0150d0c7667	ea43909f3	62	0	idworkin	Dworkin Ira M	idworkin@tam.u.edu	Faculty English	ASSISTANT PROFESSOR
0180a044017	08b291be9	91	5	eeaharth	Earhart Amy E	eeaharth@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
a6d10045f5d	e05f939e9	31	2	s-eggenolf	Eggenolf Susan B	s-eggenolf@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
49d11001017	aa0eb4d10	51	9	meide	Eide Marian	meide@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
0900e65769f	ce890a60f	42	0	lestill	Erwill Laura A	lestill@tam.u.edu	Faculty English	ASSISTANT PROFESSOR
94541e4045d	661a0c2a0	91	0	m-ewell	Exall-Wainner Margaret	m-ewell@tam.u.edu	Faculty English	DISTINGUISHED PROFESSOR
3430f4ee109	6845c23b1	11	0	rjgriffin	Griffin Robert J	rjgriffin@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
07407018a94	d739e2150	31	5	j-hannah	Hannah James R	j-hannah@tam.u.edu	Faculty English	PROFESSOR
9e14e9222d3	c501e1674	72	2	jharris	Harris Jason M	jharris@tam.u.edu	Faculty English	LECTURER
c54e1a320d9	1c5aeff50	41	3	c-hawkins	Hawkins Cecelia E	c-hawkins@tam.u.edu	Faculty English	INSTRUCTIONAL PROFESSOR

Model the data

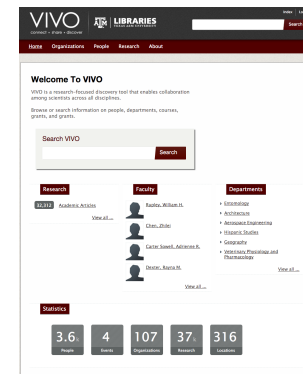


Produce N-Triple

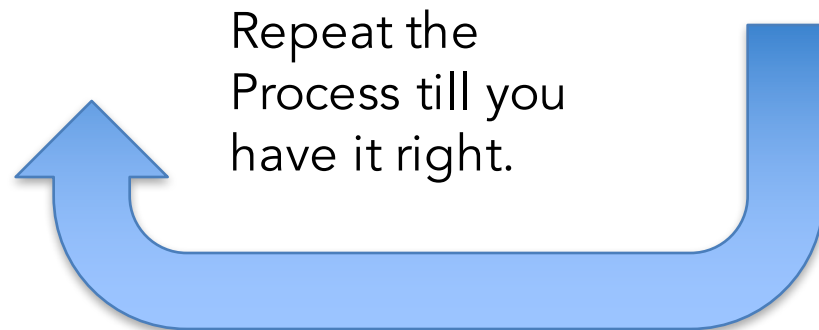
```

8 <http://vivo.library.tamu.edu/individual/9d83d81> <http://vivo.library.tamu.edu/ontology/2000/eng/> "9d83d81" .
9 <http://vivo.library.tamu.edu/individual/9d83d81> <http://www.w3.org/1999/02/22/rdf-syntax-ns#rdf:type> <http://xmlns.com/foaf/0.1/Organization> .
10 <http://vivo.library.tamu.edu/individual/9d83d81> <http://www.w3.org/2000/01/rdf-schema#label> "Accounting" .
11 <http://vivo.library.tamu.edu/individual/9d83d81> <http://www.w3.org/1999/02/22/rdf-syntax-ns#type> <http://xmlns.com/foaf/0.1/Organization> .
12 <http://vivo.library.tamu.edu/individual/9d83d81> <http://vivo.library.tamu.edu/ontology/2000/eng/> "4564f0a" .
13 <http://vivo.library.tamu.edu/individual/9d83d81> <http://www.w3.org/2000/01/rdf-schema#label> " Aerospace Engineering" .
14 <http://vivo.library.tamu.edu/individual/9d83d81> <http://www.w3.org/2000/01/rdf-schema#label> "Agricultural Economics" .
15 <http://vivo.library.tamu.edu/individual/9d83d81> <http://www.w3.org/1999/02/22/rdf-syntax-ns#type> <http://xmlns.com/foaf/0.1/Organization> .

```



Test N-Triple by loading into VIVO

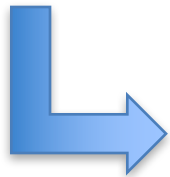


Repeat the Process till you have it right.

Semi-automatic Repeatable Process

809986248	80497462	51	4	jjalmeo	Alonso	Juan	J	jjalmeo@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
504571650	50456657	51	1	sharaco	Sharananery	Mandil		sharaco@tam.u.edu	Faculty English	PROFESSOR
0787418383	28495921	51	7	r-boonig	Boonig	Robert	E	r-boonig@tam.u.edu	Faculty English	PROFESSOR
488444344	48844371	51	3	wolicki	Clark	William	B	wolicki@tam.u.edu	Faculty English	PROFESSOR
145566454	14784765	51	7	mlae	Collins	Michael	F	mlae@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
494887874	39481571	82	0	roopert	Casper	Rich	F	roopert@tam.u.edu	Faculty English	LECTURER
304666254	47048187	21	3	delacasa	Delacasa	Giovanna	F	delacasa@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
144443444	55014833	81	2	d-dickson	Dickson	Donald	F	d-dickson@tam.u.edu	Faculty English	PROFESSOR
30450454	31607214	21	3	maera	delPescia	Nicole	M	maera@tam.u.edu	Faculty English	LECTURER
315080747	44130923	42	0	idwoolin	Dwoolin	IRA	M	idwoolin@tam.u.edu	Faculty English	ASSISTANT PROFESSOR
510204413	38023189	51	5	ashhart	Edhart	Ray	E	ashhart@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
480204554	40527094	31	2	proppol	Enopol	Ronan	B	proppol@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
480204554	48020455	31	2	proppol	Enopol	Ronan	B	proppol@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
380488480	38048848	42	0	laellil	Evallil	Laure	A	laellil@tam.u.edu	Faculty English	ASSISTANT PROFESSOR
345430480	34543048	51	0	m-wesli	Evallil	Margaret	M	m-wesli@tam.u.edu	Faculty English	DISTINGUISHED PROFESSOR
345430480	34543048	51	0	rgiffain	Giffain	Robert	J	rgiffain@tam.u.edu	Faculty English	ASSOCIATE PROFESSOR
378471848	47384210	31	5	j-banah	Hannah	James	J	j-banah@tam.u.edu	Faculty English	PROFESSOR
345430480	34543048	51	2	jharri	Harri	Jason	B	jharri@tam.u.edu	Faculty English	LECTURER
345430480	34543048	51	3	chawkins	Hawkins	Ocella	L	chawkins@tam.u.edu	Faculty English	INSTRUCTIONAL PROFESSOR

Clean Up Normalize Data

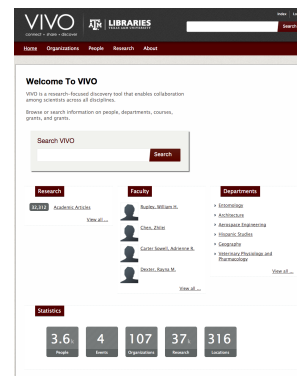
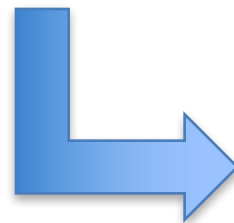


```

1 <http://vivo.library.tamu.edu/individual/80497462> <http://vivo.library.tamu.edu/ontology/TAMUEngID> "80497462" .
2 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Alonso" .
3 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
4 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
5 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
6 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
7 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
8 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
9 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
10 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
11 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
12 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .
13 <http://vivo.library.tamu.edu/individual/80497462> <http://www.vivo.org/2010/01/rdf-schema#label> "Accounting" .

```

Produce N-Triple.



Load N-Triple into VIVO via the SPARQL Endpoint



VIVO Technical Aspects: Next Steps

Douglas Hahn

Taking our Process to the Next Step

Empower the Faculty a simple, way to modify professional information.

Allow some delegation of rights for departments to modify data.

Allow VIVO administrators to load additional data.

Faculty



[Hoagwood, Terence](#)
Professor



[Vasilakis, Apostolos](#)
Instructional Assistant Professor



[Bush, Ruth](#)
Vice Dean Academic Affairs



[Ives, Maura](#)
Professor and Interim Head

[View all ...](#)



LIBRARIES
TEXAS A&M UNIVERSITY

VIVO Default Permissions

By default VIVO allows for 6 levels of permissions and these are based on broad groups.



The image shows a screenshot of a web interface for setting permissions. It features three dropdown menus:

- Display level:** A dropdown menu with the selected option "site admin and root user".
- Publish level:** A dropdown menu with the selected option "all users, including public".
- Update level:** A dropdown menu with a list of options: "site admin and root user", "all users who can log in" (highlighted in blue), "self-editor and above", "editor and above", "curator and above", "site admin and root user", and "root user".

We needed a simple interface that would allow the modification of user data and the delegation of editing authority without sharing user accounts.

VIVO Profile Editor

We decided to leverage the existing infrastructure that was developed for some of the ingest process and allow faculty to edit the information there.



Herbert, Bruce | Professor

Positions

- Faculty, [Geology and Geophysics](#)
- Faculty, [University Libraries](#)

Contact Info  


 beherbert@tamu.edu




Place an edit icon on the profile that takes faculty member to the profile editor.

VIVO Profile Editor

A web front end allows for the editing of various elements in a simple clean user interface.

 Texas A&M University Libraries



No file chosen
Delete Portrate:

Last Name: Herbert

Preferred Last Name:

(Max Characters 100)

First Name: Bruce

Preferred First Name:

(Max Characters 100)

Title: Professor

Alt Title:

(Max Characters 255)

Address Line 2:

VIVO Profile Editor

We only expose very specific data elements through this interface.

It allows us for delegated permissions. So a department can assist in updating faculty information.

It also allows for curation of certain information before it goes into VIVO.

Information can be automatically injected into VIVO via the SPARQL endpoint.

VIVO Other Uses

We also use the tool for curation / approval of other datasets.

Example: When our Dissertations are processed with VIREO and then published into DSPACE, we track the ETDChair. This allows us to harvest from DSPACE and then load it into our VIVO.



VIVO Other Uses



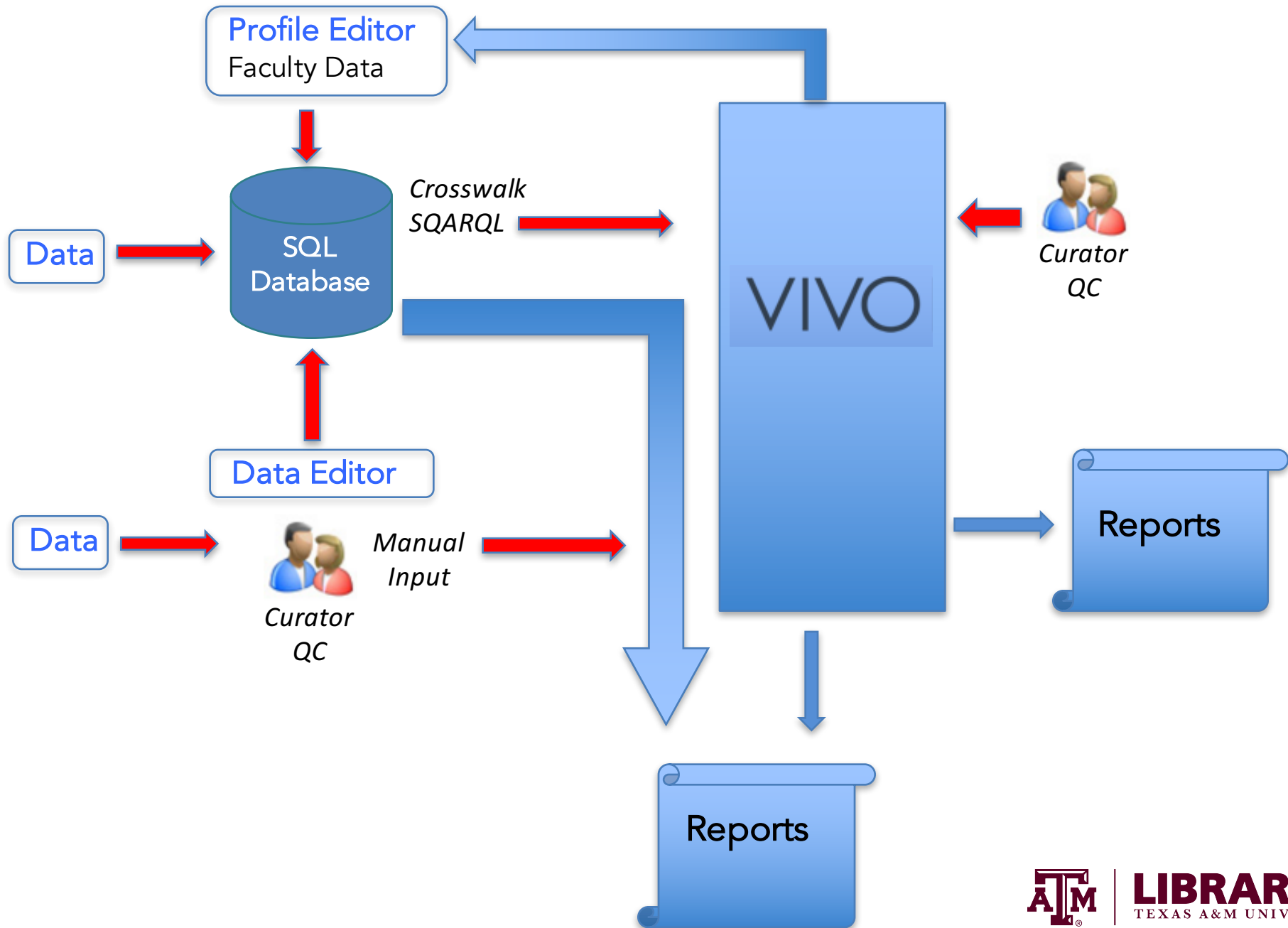
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    <value type="raw">ETDChair</value>
  </field>
</p>
▼<p>
  ▼<field id="aspect.discovery.SimpleSearch.field.filter_relational_operator_0" type="hidden" n=
    <params/>
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  </field>
</p>
▼<p>
  ▼<field id="aspect.discovery.SimpleSearch.field.filter_0" type="hidden" n="filter_0">
    <params/>
    <value type="raw">herbert</value>
  </field>
</p>
</div>
<div method="get" interactive="yes" action="discover" id="aspect.discovery.SimpleSearch.div.searc
▼<div rend="clearfix">
  ▼<p rend="pull-right">
    ▼<xref rend="show-advanced-filters" target="#">
      <i18n:text>xmlui.mirage2.discovery.showAdvancedFilters</i18n:text>
    </xref>
    ▼<xref rend="hide-advanced-filters hidden" target="#">
      <i18n:text>xmlui.mirage2.discovery.hideAdvancedFilters</i18n:text>
    </xref>
  </p>
</div>
.....
```

VIVO Other uses

Status	Title
Unapproved	A Study of Motivation Types and Behavior of Graduate Students in Future Faculty Preparation Programs
Unapproved	A Study of Motivation Types and Behavior of Graduate Students in Future Faculty Preparation Programs
Unapproved	Updating Thesis / Advisor
Unapproved	<http://localhost:8080/vivo/individual/n152464> <http://www.w3.org/2000/01/rdf-schema#label> "McBee, Jayme M (2014-05). Biogeochemistry of Isotopically-distinct Sources of Lead in a Former WWII Aerial Gunnery Range" Thesis
Unapproved	<http://localhost:8080/vivo/individual/n152464> <http://purl.org/ontology/bibo/abstract> "Isotopic composition and concentrations of Pb are used to identify s" Thesis
Unapproved	Published A Study of Motivation Types and Behavior of Graduate Students in Future Faculty Preparation Programs
Unapproved	Unapproved Chaired ETD
Unapproved	Published Artan, Sinem (2011-05). Aeolian Delivery of Organic Matter to a Middle Permian Deepwater Ramp Thesis
Unapproved	Unapproved Lake, Graciela Esther (2002-12). Quantification of potential arsenic bioavailability in spatially varying Geologic Environments at the Watershed Scale Using Chelating Resins Thesis
Unapproved	Published McBee, Jayme M (2014-05). Biogeochemistry of Isotopically-distinct Sources of Lead in a Former WWII Aerial Gunnery Range Thesis
Unapproved	Unapproved Miller, Clint Matthew (2010-08). Adhesion and the Surface Energy Components of Natural Minerals and Aggregates Thesis
Unapproved	Unapproved Ray-Blakely, Charita Dionne (2011-05). A Study of Motivation Types and Behavior of Graduate Students in Future Faculty Preparation Programs Thesis



Data Workflow Diagram





Discussion: Questions for the Panel