



A new frontend for VIVO

Hector Correa / hector_correa@brown.edu
Steven McCauley / steven_mccauley@brown.edu
Brown University Library





A new frontend for VIVO

Hector Correa / hector_correa@brown.edu Steven McCauley / steven_mccauley@brown.edu **Brown University Library**

VIVO @ Brown

In production since 2014

4000+ researcher profiles

150,000 pageviews/month (Google Analytics)

Why a new frontend?

Users have expressed

- Not very user-friendly
- Plain/boring look and feel
- Not very functional for their needs (i.e. discovery)

Technology-wise

- Use technologies we are comfortable with (Ruby on Rails)
- Allows us to innovate faster

Current Original Web Site

5

No URL available as of December/2017

Search

Researchers BROWN

> Home

People

Organizations

Welcome to Researchers@Brown

Researchers@Brown brings together, in one site, publicly available information on the people, departments, and activities that collectively make up research and scholarship in all disciplines at Brown University.

For FACULTY:

- · You may have harvested publications pending approval. Click "Manage your profile" -> "Publications" -> "Manage publications".
- Check out the new "Geographic Research Area" section which uses a standard set of geographic terms.
- · Coming soon! Optional network visualizations

For DEVELOPERS:

• The R@B team has developed a JSON web service that makes it easy to use data from Researchers@Brown in other websites.

Please provide feedback or request help by contacting researchers@brown.edu. Visit our Help pages for further information.

RECENT FACULTY BOOKS theatre history Rebecca Schneider Click book jacket to view faculty profile Get a Brown ORCID Identifier! Publishers and funding agencies are increasingly requesting ORCIDs for

manuscript and grant submissions.

Researchers BROWN

Organizations Help

caribbean history

Search

Search results for 'caribbean history'

Not the results you expected?

Display Only

Brown organizations

research interests (1)

people

courses

citations

(35)

(7)

Caribbean history | Research Area

People

Home

HIST 0971L - Modern Caribbean History | Course

and the Politics of Identity :The Peru Reader:History ...

Latin American and Caribbean Studies

... Director of Latin American and Caribbean Studies To foster greater knowledge, teaching and research on the cultures, societies, history, politics, economics ...

The Journal of Latin American and Caribbean Anthropology | Venue

... of Adoption in Latin America Book Review: Negras in Brazil: Re-envisioning Black Women, Citizenship,

Medical History | Venue

... Venue Julia E. Rodriguez (ed.), History of Science in Latin America and the Caribbean Digital Archive (Durham: University of New Hampshire, 2010) (www ...

Julia E. Rodriguez (ed.), History of Science in Latin America and the Caribbean Digital Archive (Durham: University of New Hampshire, 2010) (www.hoslac.org) | Article

... Article Citation Lambe, Jennifer Medical History 618-619 10.1017/mdh.2012.72 04 Lambe, Jennifer 56 2012-10-01 ...

:The Peru Reader:History,Culture, Politics | Article

... Article Citation Leinaweaver, Jessaca The Journal of Latin American and Caribbean Anthropology 277–279 10.1525/jlat.2007.12.1.277 1
Leinaweaver, Jessaca B. 12 ...

Henry, Paget | Faculty Member

... and Ethnic Relations; Caribbean History and Society; Comparative Colonial Cultures; Sociology of the Arts; Sociology of Cultural Development; Seminar on Critical Theory ...

Rodriguez, Daniel | Faculty Member

... of Latin America, 1492-2014 HIST 2930 - Colloquium Latin America and the Caribbean PhD History Daniel • Mendenhall Fellowship (Smith College, 2012) • Mellon ...

Lambe, Jennifer Faculty Member

...: Intimate Histories of Psychiatry and Self Latin American and Caribbean HIST 1830M - From Medieval Bedlam to Prozac Nation: Intimate Histories of Psychiatry and Self ...

Researchers BROWN

caribbean history

Search

People Organizations Help Home

Search results for 'caribbean history' limited to type 'people'

Not the results you expected?

... and Ethnic Relations; Caribbean History and Society; Comparative Colonial Cultures; Sociology of the Arts; Sociology of Cultural Development; Seminar on Critical Theory ...

Limit people to Faculty Member (35)

(35)

Person

Rodriguez, Daniel | Faculty Member

Henry, Paget | Faculty Member

... of Latin America, 1492-2014 HIST 2930 - Colloquium Latin America and the Caribbean PhD History Daniel . Mendenhall Fellowship (Smith College, 2012) . Mellon ...

Lambe, Jennifer | Faculty Member

...: Intimate Histories of Psychiatry and Self Latin American and Caribbean HIST 1830M - From Medieval Bedlam to Prozac Nation: Intimate Histories of Psychiatry and Self ...

Bogues, Barrymore | Faculty Member

... Philosophical Association International Intellectual History Association Caribbean Studies Association Center for Caribbean Thought Caribbean Social History Project ...

Fisher, Linford | Faculty Member

... in America, 1865 - Present PhD Anglophone Caribbean Decoding Roger Williams: The Lost Essay of Rhode Island's Founding Father Native North America Caribbean history ...

Channer, Colin | Faculty Member

... - Remaster + Remix Iron Balloons Kingston Noir Reggae music BA Caribbean poetry interdisciplinary arts cinema Rhode Island Humorous monologues colinchanner.com 2016 ...

Johnson, Jasmine Faculty Member

... and History; Association for the Study of the Worldwide African Diaspora; Caribbean Studies Association; Collegium for African Diaspora Dance; Congress on Research ...

Whitfield, Esther | Faculty Member

... 's Program in History and Literature before joining the faculty of Brown's Department of Comparative Literature in 2002. She teaches courses on Latin American, Caribbean ...

Martinez, Monica | Faculty Member

...), Department of Latino and Hispanic Caribbean Studies, Rutgers University, 2012-2013 Comparative Border Studies Fellowship (declined), Arizona State University, 2012-2013 Best ...

Researchers BROWN

Search

Home

People

Organizations Help



Curriculum Vitae email ⊠

Itohan I. Osayimwese | Assistant Professor of History of Art and Architecture

Itohan Osayimwese is an architectural and urban historian. She is Assistant Professor of History of Art & Architecture. She engages with theories of modernity, postcoloniality, and globalization to analyze German colonial architecture, urban design, and visual culture; modern architecture in Germany; African and African diaspora material cultural histories; and the architecture of development in Africa. Another research interest is the architectural and urban lives of religious cults.

Brown Affiliations

History of Art and Architecture

Research Areas

19th and 20th century global architectural history | African and African diaspora material culture | Caribbean history | colonial architecture and urbanism | missionary architecture | modern architecture

Publications Research Background Affiliation Teaching View All

selected

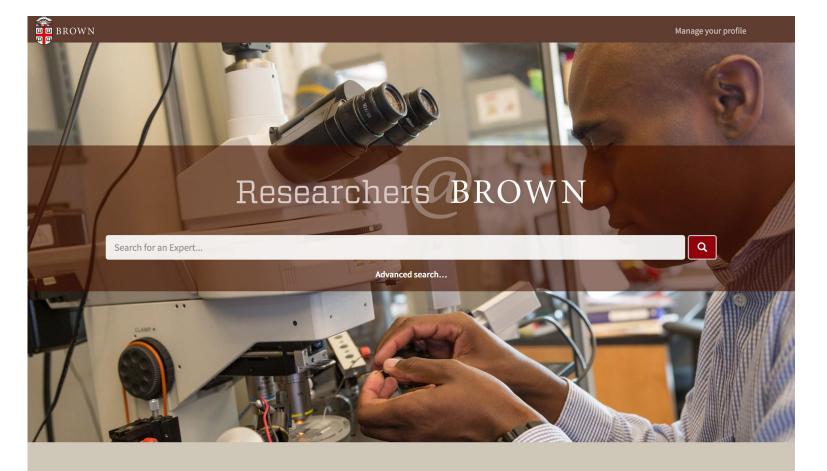
Osayimwese, Itohan. Colonialism and Modern Architecture in Germany 2017.

Osayimwese, Itohan. Armchair Safaris: Representations of African Cultures in Zoos Architectural Theory Review. 2016; 20 (20): 1–16. [full text]

Osayimwese, Itohan. Slavery at Monticello: Life and Work on Mulberry Row JSAH. 2016; 75 (3): 383–385.

New Web Site

Live since December/2017 https://vivo.brown.edu/



Recent faculty books

Click book jacket to view faculty profile

Type

PEOPLE X (34)

BROWN

Affiliations

American Studies (6) Africana Studies (5) History (5) Anthropology (4)

Hispanic Studies (3) Sociology (3)

Comparative Literature (2)

Epidemiology (2)

French Studies (2)

History of Art and Architecture (2)

+ More...

Research Areas

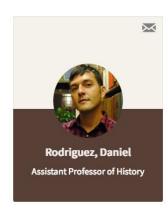
Caribbean (5) Brazil (4) Latin America (4)

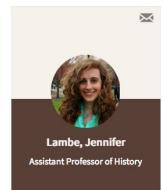
Ethnic Studies (3)

Cuba (3)

North America (3)

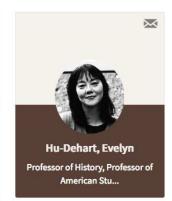
« Previous | 1 - 20 of 34 search results | Next » for caribbean history X (Type > PEOPLE X)













PEOPLE X (80)

Affiliations

Health Services, Policy and Practice **★** (80)

Medicine (17)

Emergency Medicine (4)

Pediatrics (3)

Psychiatry and Human Behavior (3)

Gerontology and Health Care Research (2)

School of Public Health (2)

Brown AIDS Center (CFAR) (1)

Brown University AIDS Program (BRUNAP) (1)
Business, Entrepreneurship and Organizations

+ More...

Published In

JAMA (13)

Journal of the American Geriatrics Society (13)

American journal of kidney diseases: the official
journal of the National Kidney Foundation (12)

Health Serv Res (12)

Journal of the American Medical Directors Association (12)

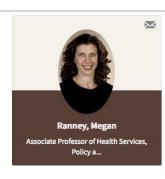
Medical Care (12)

Medical Care Research and Review (12)

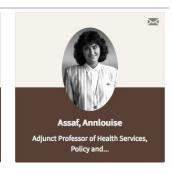
J Gen Intern Med (11)
The Gerontologist (11)

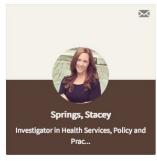
Annals of Internal Medicine (10)



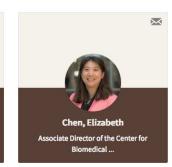










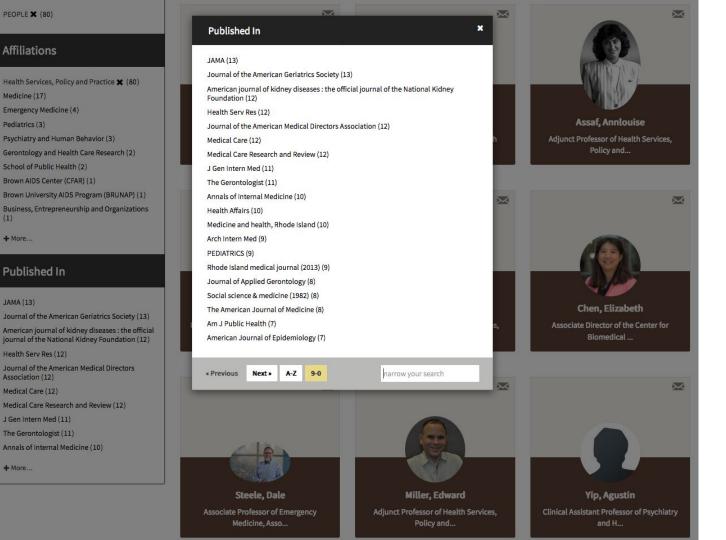






 \sim





PEOPLE X (80)

Affiliations

Medicine (17)

Pediatrics (3)

+ More ...

JAMA (13)

Published In

Health Serv Res (12)

J Gen Intern Med (11) The Gerontologist (11) Annals of Internal Medicine (10)

+ More ...

Association (12) Medical Care (12)

Journal of the American Medical Directors

Medical Care Research and Review (12)

Emergency Medicine (4)

School of Public Health (2)

Brown AIDS Center (CFAR) (1)

Psychiatry and Human Behavior (3)

Gerontology and Health Care Research (2)

Brown University AIDS Program (BRUNAP) (1)

Business, Entrepreneurship and Organizations

Health Services, Policy and Practice ★ (80)





Overview

Publications

Research

Background Affiliations

Teaching

View All Curriculum Vitae [PDF]

Osayimwese, Itohan

Assistant Professor of History of Art and Architecture History of Art and Architecture

Overview

Itohan Osayimwese is an architectural and urban historian. She is Assistant Professor of History of Art & Architecture. She engages with theories of modernity, postcoloniality, and globalization to analyze German colonial architecture, urban design, and visual culture; modern architecture in Germany; African and African diaspora material cultural histories; and the architecture of development in Africa. Another research interest is the architectural and urban lives of religious cults.

Brown Affiliations

History of Art and Architecture

Research Areas

19th and 20th century global architectural history | African and African diaspora material culture | Caribbean | Caribbean history | colonial architecture and urbanism | Germany | missionary architecture | modern architecture | West and East Africa

Features

- Same information as standard VIVO
- Modern look and feel
- Optimized for discovery
 - Focus on finding researchers
 - Affiliations, alumn of, et cetera issue searches for other researchers
 - Faceted search (affiliation, research areas, publication venue)
 - Focus on common users' needs
 - Tuned our Solr index, spell checker, faster response times
- Mobile friendly
- Fast performance

Examples

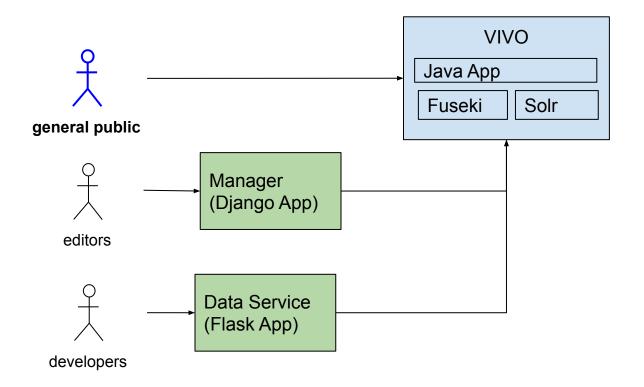
- Publication filter (link)
- Complete profile (link)
 - Alumni of (link)
 - Appointments (link)
 - Export to JSON-LD / Turtle via VIVO (link)

System Architecture

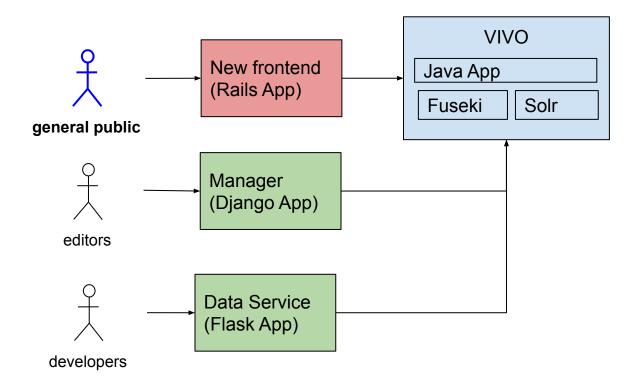
Developer requirements

- Decouple frontend interface from backend datastore
- Better performance
- Easier, faster updates and development
- Less complexity, more collaboration

System Architecture: original setup



System Architecture: new setup



System Architecture: application APIs

VIVO APIs

- Writing: VIVO internals
- Querying: Fuseki
- SPARQL Query/Update APIs
- Frontend API should be simple and fast

System Architecture: frontend API

Solr as VIVO API

- Bundled with VIVO
- Highly configurable
- Built for search and speed
- Live updates
- Query via HTTP
- Delivers denormalized JSON documents

https://wiki.duraspace.org/pages/viewpage.action?pageId=55902741

System Architecture: configuration and workflow

Solr configuration

- Solr schema
- Solr integrates standalone scripts: more data processing, validation
 - https://wiki.apache.org/solr/ScriptUpdateProcessor

VIVO configuration

- rdf/display/everytime/searchIndexerConfigurationVitro.n3
- SPARQL queries against triplestore generate data for Solr fields

```
:documentModifier affiliationsJSON
387
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.SelectQuery</pre>
        DocumentModifier> ,
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.DocumentMod</pre>
388
            ifier>:
389
        rdfs:label "All labels are added to name fields.";
        :hasTargetField "affiliations json";
390
        :hasTypeRestriction "http://xmlns.com/foaf/0.1/Person";
391
392
        :hasSelectQuery
393
            PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
394
            PREFIX blocal:<http://vivo.brown.edu/ontology/vivo-brown/>
            SELECT DISTINCT ?json
395
396
            WHERE {
                ?uri blocal:hasAffiliation ?aff .
397
398
                ?aff rdfs:label ?label .
399
                BIND(replace( '\"uri\":\"aff\",', 'aff', str(?aff) ) as ?uriStr)
                BIND(replace( '\"id\":\"aff\",', 'aff', str(?aff) ) as ?idStr)
                BIND(replace( '\"name\":\"aff\"', 'aff', str(?label) ) as ?nameStr)
401
402
                BIND(concat( '{', ?uriStr, ?idStr, ?nameStr, '}') as ?json)
403
            11 11 11
```

```
:documentModifier affiliationsJSON
387
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.SelectQuery</pre>
        DocumentModifier> ,
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.DocumentMod</pre>
388
            ifier>:
389
        rdfs:label "All labels are added to name fields.";
390
        :hasTargetField "affiliations json" ;
        :masTypeRestriction "http://xmlms.com/foaf/0.1/Person";
391
392
        :hasSelectQuery """
            PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
393
            PREFIX blocal:<http://vivo.brown.edu/ontology/vivo-brown/>
394
395
            SELECT DISTINCT ?ison
396
            WHERE {
                ?uri blocal:hasAffiliation ?aff .
397
398
                ?aff rdfs:label ?label .
399
                BIND(replace( '\"uri\":\"aff\",', 'aff', str(?aff) ) as ?uriStr)
                BIND(replace( '\"id\":\"aff\",', 'aff', str(?aff) ) as ?idStr)
                BIND(replace( '\"name\":\"aff\"', 'aff', str(?label) ) as ?nameStr)
401
402
                BIND(concat( '{', ?uriStr, ?idStr, ?nameStr, '}') as ?json)
403
            11 11 11
```

```
:documentModifier affiliationsJSON
387
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.SelectQuery</pre>
        DocumentModifier> ,
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.DocumentMod</pre>
388
            ifier>:
        rdfs:label "All labels are added to name fields.";
389
390
        :hasTargetField "affiliations json" ;
        :hasTypeRestriction http://xmlns.com/foaf/0.1/Person";
391
        :hasSelectOuery """
392
393
            PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
            PREFIX blocal:<http://vivo.brown.edu/ontology/vivo-brown/>
394
395
            SELECT DISTINCT ?ison
396
            WHERE {
                ?uri blocal:hasAffiliation ?aff .
397
                ?aff rdfs:label ?label .
398
399
                BIND(replace( '\"uri\":\"aff\",', 'aff', str(?aff) ) as ?uriStr)
                BIND(replace( '\"id\":\"aff\",', 'aff', str(?aff) ) as ?idStr)
                BIND(replace( '\"name\":\"aff\"', 'aff', str(?label) ) as ?nameStr)
401
402
                BIND(concat( '{', ?uriStr, ?idStr, ?nameStr, '}') as ?json)
403
            11 11 11
```

```
:documentModifier affiliationsJSON
387
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.SelectQuery</pre>
        DocumentModifier> ,
            <java:edu.cornell.mannlib.vitro.webapp.searchindex.documentBuilding.DocumentMod</pre>
388
            ifier>:
389
        rdfs:label "All labels are added to name fields.";
        :hasTargetField "affiliations json";
390
        :hasTypeRestriction "http://xmlns.com/foaf/0.1/Person";
391
392
        :hasSelectQuery
393
            PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
            PREFIX blocal:<http://vivo.brown.edu/ontology/vivo-brown/>
394
            SELECT DISTINCT ?json
395
            WHERE {
396
                ?uri blocal:hasAffiliation ?aff .
397
                ?aff rdfs:label ?label .
398
399
                BIND(replace( '\"uri\":\"aff\",', 'aff', str(?aff) ) as ?uriStr)
                BIND(replace( '\"id\":\"aff\",', 'aff', str(?aff) ) as ?idStr)
                BIND(replace( '\"name\":\"aff\"', 'aff', str(?label) ) as ?nameStr)
401
402
                BIND(concat( '{', ?uriStr, ?idStr, ?nameStr, '}') as ?json)
403
            11 11 11
```

System Architecture: Solr documents

```
"research overview": "<strong><em><u>The Anti-Trafficking Rehabilitation Complex</u></em></strong>\n\nMy book manuscript in
"title t": [
  "Assistant Professor of American Studies"
"affiliations json": [
  "{\"uri\":\"http://vivo.brown.edu/individual/org-brown-univ-dept3\",\"id\":\"http://vivo.brown.edu/individual/org-brown-univ-dept3\"
1.
"alumni of": [
  "Pomona College",
  "University of California, Los Angeles"
"teacher for": [
  "DEVL 1500 - Methods in Development Research",
  "AMST 1600B - Global China: Flows, Forces, and Friction",
  "AMST 1500A - Research and Transnational Communities: Qualitative Fieldwork Methods",
  "AMST 1600C - The Anti-Trafficking Savior Complex: Saints, Sinners, and Modern-Day Slavery"
"on the web json": [
  "{\"uri\":\"http://vivo.brown.edu/individual/nea0ec2d6-d754-11e5-abdf-005056aa66a3\",\"url\":\"http://www.elenashih.org\",\"text\":\"
```

System Architecture: VIVO as backend

- Minimal updates to VIVO installation
 - Solr indexing configuration
 - Reassign URLs: from VIVO pages to Rails app
- Preserve VIVO's built-in data services
 - http://.../individual/{id}/{id}.ttl (exports Turtle)
 - http://.../individual/{id}/{id}.jsonld (exports JSON-LD)
 - SPARQL Query/Update APIs
- Standalone APIs still available
 - Fuseki
 - R@B REST service
- VIVO for database administration

System Architecture: future steps

At Brown

- Move from standalone Fuseki to SPARQL Query/Update APIs
- Smarter SPARQL queries, better JSON handling
- Leverage inferencing and maintenance queries

VIVO community

- Easier configuration of Solr fields
- Focus on Solr integration, staying up-to-date with latest versions
- Development of modules that hook up to VIVO APIs

Benefits (users)

- Targets users' different needs
 - ...mainly discovery
 - ...while preserving our Linked Data options
- Good design makes a big difference
 - Thanks Symplectic for the inspiration in VIVO 2016
 - Thanks to our designers: Crystal Brusch and Ben Tyler
- Careful: bad data might become (more) visible

Benefits (technical)

- Familiar technologies for the team
 - Ruby on Rails
 - Designers can run the site and see their changes locally
- Easier to update the frontend
 - Push a new release without touching the VIVO backend
- Hard division between public and not-public data
- Keeps VIVO data capabilities intact

If you are going to customize VIVO (and you will)...

your frontend and your backend don't

have to be the same

Future enhancements

- Visualizations
- Built-in access to common queries
 - o e.g. who has published in the last 12 months
- Connect to other systems within the university/library
- Document how to reuse our code (Rails + Solr config)
- Exports
 - ... of search results
 - ...individual researcher (make more prominent)
- Organization/affiliation pages
 - o ...and others?

Source code

Available at https://github.com/Brown-University-Library/vivo-on-rails

Questions?

- Contact us
 - o <u>hector_correa@brown.edu</u>
 - steven mccauley@brown.edu

