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Institutional Repositories and Research Development - Capitalizing on Points of Intersection

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Institutional Repositories and Research Development





1

Research and Funding Development

strategic, proactive, catalytic, and capacity-building



Common research development activities:

- ◇ Increasing researcher capacity
- ◇ Increasing institutional capacity
- ◇ Organizing and submitting funding proposals
- ◇ Building networks and collaborative teams





2

Federal Funding Systems

research information management system relevant to IRs



Funder Repositories

PMC

- NIH
- NASA
- VA
- AHRQ
- FDA
- NIST
- ASPR

PAGES


- DOE
- NSF

STACKS


- CDC
- NOAA

OTHERS

- PUBAG
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Journal Articles

- Walker LA, Armstrong M. "I Cannot Tell What the Dickens His Name Is": Name Disambiguation in Institutional Repositories Journal of Librarianship and Scholarly Communication. 2015; 2(2):eP1095. [Edit citation](#)

Other (Non-standard citation)

- Ruppel M, Davis M, Armstrong M. Albertsons Library Data Management Strategic Agenda. [revised 2016 January]. [Other]. Boise. ID: ScholarWorks; 2015 January. 14 pages. Available from: <http://scholarworks.boisestate.edu/datamanagementservices/2/>. DOI: 10.18122/B24K5M. [Edit citation](#)

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List up to five examples that demonstrate the broader impact of the individual's professional and scholarly activities that focus on the integration and transfer of knowledge as well as its creation.

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Websites
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DOI: 10.18122/B24K5M
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Boise State Data Management Needs Report
2015 | book
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3

Areas of Overlap

finding win-win opportunities


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Selected Works of Eric Jankowski

Assistant Professor and Lab Director, Computational Materials Science Laboratory, Department of Materials Science & Engineering

Dr. Eric Jankowski started at Boise State University in 2015 and is an Assistant Professor in the Department of Materials Science & Engineering and is the Lab Director of the Computational Materials Science Laboratory. He received a Ph.D., a M.S., and a B.S.E. in Chemical Engineering all from the University of Michigan Ann Arbor. Dr. Jankowski's post-doctoral experience includes being a Director's Postdoctoral Fellow at the National Renewable Energy Laboratory in Golden, CO and a position as a Postdoctoral Fellow at the National Renewable Energy Laboratory in Golden, CO. [read more →](#)

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Articles (11)

Article

Digital Colloids: Reconfigurable Clusters as High Information Density Elements

Soft Matter (2014)

Eric Jankowski

Through the design and manipulation of discrete, nanoscale systems capable of encoding massive amounts of information, the basic components of ...

[Link](#)

Article

Massively Parallel Monte Carlo for Many-Particle Simulations on GPU

Journal of Computational Physics (2013)

Joshua A. Anderson, Eric Jankowski, Thomas L. Grubb, Michael Engel, et al.

Current trends in parallel processors call for the design of efficient massively parallel algorithms for scientific computing. Parallel algorithms for ...

[Link](#)

Article

Self-Assembled Clusters of Spheres Related to Spherical Codes

Physical Review E (2012)

Carolyn L. Phillips, Eric Jankowski, Michelle Marval and Sharon C. Glotzer

We consider the thermodynamically driven self-assembly of spheres onto the surface of a central sphere. This assembly process forms self-limiting, ...

Article

Controlling the Morphology of Model Conjugated Thiophene Oligomers Through Alkyl ...

Macromolecules (2014)

Hilary S. Marsh, Eric Jankowski and Arthi Jayaraman

We have performed coarse-grained molecular dynamics simulations of thiophene-based conjugated oligomers to elucidate how the oligomer architecture, specifically the ...

[Link](#)

Article

Computationally Linking Molecular Features of Conjugated Polymers and Fullerene Derivatives ...

Macromolecules (2013)

Eric Jankowski, Hilary S. Marsh and Arthi Jayaraman

The efficiency of bulk heterojunction solar cells depends strongly on the morphology of the electron donors (conjugated polymers) and electron ...

[Link](#)

Article

Thermal and Athermal Three-Dimensional Swarms of Self-Propelled Particles

Physical Review E (2012)

Nguyen H.P. Nguyen, Eric Jankowski and Sharon C. Glotzer

Swarms of self-propelled particles exhibit complex behavior that can arise from simple models, with large changes in swarm behavior resulting ...

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Data Management Planning

Hi Pat,

Attached is the DMP. Although most of it is based on our conversations, I have taken some liberties and described management methods I think would work well for this project. The one area I am not confident about is the Data and Metadata Standards section. There were a lot of specifics that were hard for me to figure out without more information. I recommend reviewing that section closely for accuracy.

I hope this is helpful, but please feel free to contact me with any questions. Thanks and good luck with the proposal!

Michelle





4

Barriers to Collaboration

Why is it so hard for IR and Research Development staff to connect?



Common barriers:

- ◇ Lack of awareness
- ◇ Systems barriers
- ◇ Staffing limitations
- ◇ Lack of research and grant/funding activity in the library community





5

Building Relationships

starting a discussion on how to build productive and functional relationships



A few suggestions:

- ◆ Focus on interoperability and linked research data and scholarship
- ◆ Market our skills and resources in terms of RFPs
- ◆ Utilize lifecycle models to collaborate throughout a research project and when most needed





Thanks!

Any questions?

- ◇ Michelle Armstrong
- ◇ Albertsons Library - Boise State University
- ◇ https://works.bepress.com/michelle_armstrong/
- ◇ <http://scholarworks.boisestate.edu/>

