Collaborating with your Library to Jump Start Grand Challenges, Characterize your Impact and Write Your Next Proposal

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If you’re not working with the Libraries, you’re missing a whole piece of what this university has to offer
Supporting Grand Challenges
Grand Challenges at the University of Minnesota
Research Sprints

A one-week intensive with a team of librarians resulting in a tangible product or outcome.
Breadth of Topics

- Identifying & Addressing Disparities in the Criminal Justice and Health Care Systems
- Assuring Clean Water & Sustainable Ecosystems via Improved Agroecological Management
- Water and Equity: Co-developing Research and Engaged Approaches to Transforming Environments
- Wild Rice in Minnesota and the Great Lakes Region: A Flagship for Environmental Preservation and Indigenous Resource Sovereignty
Consultations with library specialists

Frank Sayre, Pharmacy Librarian, and Prof. Chuck Muscoplat

Caroline Lilyard, Business, Journalism, & Global Studies Librarian

Dr. Ezgi Tiryaki and Jonathan Koffel, Medical Librarian

Scott Spicer, Media Services Librarian

Shane Nackerud, Technology Lead, Libraries Initiatives

Kimberly Clarke, Multicultural Education, GLBT Studies Librarian
umnlib We had a great time yesterday at the Grand Challenge Research Expo talking with faculty, researchers and students on support for Grand Challenges (aka Research Sprints!!) and interdisciplinary research of all kinds. Our table included a Pop-Up Library too! We ❤️ grand challenge researchers! #umn #umnprpoud #coffman #umngrandchallenges #umngcc #popuplibrary #interdisciplinary
Contrasting potato foliage and tuber defense mechanisms against the late blight pathogen Phytophthora infestans


Reinventing potato as a diploid inbred line-based crop

Pure

Pure is a comprehensive research information management system (CRIS) that aggregates your organization’s research information from numerous internal and external sources, and ensures the data that drives your strategic decisions is trusted, comprehensive and accessible in real time.

Pure enables organizations to:
- Build reports
- Manage researcher profiles
- Enable expertise identification
- Showcase your researcher's achievements
What is Pure?

• Pure is the most comprehensive system-of-record for research information…

• …that enables universities to improve their effectiveness across the complete research lifecycle.
Pure Platform for Expert Discovery and Collaboration
Documenting and Describing Research Impact
University of Minnesota MRSEC

A comprehensive center that integrates interdisciplinary materials research with innovative outreach to inspire excellence in all aspects of science and engineering
MRSEC-SUPPORTED PUBLICATIONS AND PATENTS
+Denotes Publications with International Co-Authors

IRG-1 Publications resulting from PRIMARY MRSEC Support


How does content come into Scopus?

Publishers own the content that is displayed in Scopus

Translate the content into Elsevier XML format

Elsevier adds additional information, links cited references to indexed documents, and creates author and affiliation profiles

The Scopus data is made available through Scopus.com, SciVal.com, and the API
Coverage of high quality content in Scopus due to selection by the independent Content Selection & Advisory Board (CSAB)

The CSAB is an independent board of subject experts from all over the world. Board members are chosen for their expertise in specific subject areas; many have (journal) Editor experience.

Transparent Scopus selection criteria for serial content

All titles should meet all minimum criteria in order to be considered for Scopus review:
Goal: connect research output with a researcher who is affiliated with an institution

Making your research product discoverable and citable
Identifying Researchers

John F. Dannenhoffer III
Syracuse University

Joan V. Dannenhoffer
Syracuse University

John F. Dannenhoffer IV
PhD Candidate, University of Michigan

Joanne M. Dannenhoffer
Central Michigan University

(spouses)

(siblings)

(siblings)

These researchers publish as:
J Dannenhoffer
JV Dannenhoffer
JF Dannenhoffer
JM Dannenhoffer
...
Identifying institutions:
University of Minnesota – 1,232 name variants!
relevant dimensionality of physical behaviour in a magnetic system.

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Data in Action
CTSI: A Case Study

UMN hosts one of 60 medical research institutions awarded an NIH Clinical Translational Science Award (CTSA). It was recently awarded $42.6 million in renewed NIH funding.

One key question in preparing the renewal:

What was done with the previous funding?
- How do we compare to the AAU?
- Can we see academic-corporate collaborations? Could you also break this down by the individual grants?
- Could we see field-weighted comparisons by grant?
- Could we get journal disciplines by grant?
- Could we see a more detailed break-down of the Medicine discipline, and then break down by grant also?
- Could we see international collaboration by grant?
- We're also interested in seeing how some of these have changed over time. How has journal discipline changed over time?
- How have collaborations changed over time? We'd also like to see a little more information about who is collaborating with whom. Does it vary by grant?
SciVal

SciVal is a research intelligence solution that allows you to visualize research performance, benchmark relative to peers, develop collaborative partnerships and analyze research trends. SciVal offers quick, easy access to the research performance of 8,500 research institutions and 220 countries worldwide.
SciVal for Analyzing Research Performance

- **Visualize Research Performance**: Ready-made-at-a-glance snapshots of any selected entity

  - **Benchmark Progress**: Flexibility to create and compare any entities

  - **Examine Collaborative Relationships**: Identify and analyze existing and potential collaboration opportunities

  - **Analyze Research Trends and Topics**: Create and analyze research trends and topics to discover the top performers and rising stars

Create and select research entities

Select metrics

Big Data Technology

Publication, citation and usage data (Scopus & ScienceDirect)
Awarded grants, mass media mentions, patent-article citations
Research Impact Metrics

Slice and dice your data from multiple angles to identify your core strengths and current challenges.

**Productivity metrics**
- Scholarly Output / Number of Publications
- Outputs in Top Percentiles
  - Publications in Top Journal Percentiles

**Citation Impact metrics**
- Citation Count
- Citations per Publication
  - Cited Publications
  - Number of Citing Countries
  - h-indices \((h, g, m)\) from 1996 forward
- Field-Weighted Citation Impact
  - Citing-Patent Count
  - Patent-Cited Scholarly Output
  - Patent-Citations Count
  - Patent-Citations per Scholarly Output

**Collaboration metrics**
- Collaboration (geographical)
- Collaboration Impact (geographical)
- Academic-Corporate Collaboration
- Academic-Corporate Collaboration Impact

**Disciplinarity metrics**
- Journal count
- Journal category count

**Usage metrics (Trends module)**
- Views Count
- Views per Publication
- Field-Weighted Views Impact

**Societal Impact Metrics**
- Mass Media
- Media Exposure

Snowball Metrics: [www.snowballmetrics.com/metrics](http://www.snowballmetrics.com/metrics)
For the first time... we have the ability to benchmark our supported publications against research publication productivity at U of M, at other universities, across disciplines, against six other CTSA sites... and, importantly, to track our progress across the years of our grant.... To date, we have used [this information] in very recent grant applications where standardized bibliometric analytics will be very valuable in strengthening the proposals.
Beyond Publication Metrics
Looking Beyond the Numbers

UMN Libraries’ Policy & News

Media Impact Service is built on the underlying facts:

❖ Impact means more than citations
❖ Libraries have access to (and expertise with) more than just scholarly resources
Write your Next Proposal
Write Your Next Proposal: Find Funding

Grant Funding: Search Tools and Resources

The University Libraries offers a hands-on and online workshops on searching Pivot and the Foundation Directory Online (FDO). Setting up e-mail updates in Pivot is also covered. The workshops are co-sponsored by Office for the Vice President for Research (OVPR).

Search Tools

Pivot (formerly Community of Science) Grant opportunities in many disciplines. Includes federal, non-federal, and international agencies. Foundation Directory Online (FDO) Profiles and recently awarded grants from over 80,000 foundations.

Local Resources

Internal U of M funding sources The OVPR maintains this list of campus resources.

Departmental or college grants coordinators Download a list from the OVPR’s Web site

Proposal Development

Proposal development at the U of M

For advice on grant writing, consider consulting this page from Purdue OWL, the Art of Grantmanship, Writing a Successful Grant Proposal from the MN Council on Foundations, the Proposal Writing Short Course online from the Foundation Center, or Developing Competitive Proposals from the Grant Resource Center.

Additional Funding Resources
Write Your Next Proposal: Find Collaborators

Search everything

Profiles (349)  Research Units (70)  Projects/Grants (9)  Research Output (1632)

1 - 50 out of 349 results  Last Name (ascending)  
Showing results for cognitive science statistics as free text
Did you want to search for cognitive science statistics as a concept

Brian H Abery
College of Education & Human Development,
Institute on Community Integration - Researcher

Wayne O Adkisson
Medical School - Twin Cities Campus, Medicine - Cardiology Division - Assistant Professor

Rohini Ahluwalia
Carlson School of Management, Marketing - Professor

John S Andrews
Medical School - Twin Cities Campus,
Administration (TMED) - Associate Dean
Medical School - Twin Cities Campus, Pediatrics - Administration - Associate Professor

Afshan Anjum
Medical School - Twin Cities Campus, Psychiatry - Assistant Professor

David R Arendale
College of Education & Human Development,
Curriculum and Instruction - Associate Professor
Write Your Next Proposal: Understand Requirements

- Biosketches
- Public access policy compliance
- Data management and sharing plans
- Records management and retention
Thank You!

z.umn.edu/nordp2018

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