Towards visualizations-driven navigation of the scholarship data:

SCHOLARS@CORNELL

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Scholars@Cornell has a Primary Goal to Capture, Manage, Enhance, & Display the Scholarly Record of Cornell University.
Scholars@Cornell Phase 1 Goals

1. Provide high-integrity semantic knowledgebase to enable:
   1. exploration & navigation of scholarly record of Cornell University;
   2. discovery of the expertise, impact, & collaboration of Cornell faculty & researchers.
2. Grow faculty engagement in this work.
3. Reposition Scholars system as data & visualization service motivated by revealing patterns in data.
Stakeholders of Scholars@Cornell

- Library
- Academic Departments
- Students
- University
Stakeholder ?s: Library

• What journals, resources are faculty members are targeting?
• Are those covered in Catalog, other Repositories, Resources Purchasing?
• High priority areas for Open Access or Preservation initiatives?
Stakeholder ?s: Academic Departments

• How many articles are published a year?
• Articles are published in which journals?
• How often do we collaborate with other departments etc.
• What research areas do we cover?
• What faculty in those areas do we have?
Stakeholders’ questions: Students

• How to find & access specific experts in research areas?
• How to choose supervisors?
• How to find specific subject areas, then articles on those areas & access scholarly content?
Stakeholders’ Questions: University

• What are the high-impact areas of Cornell University scholarly work?
• What is the global impact of research & scholarship at Cornell?
• What are emerging trends appearing?
• Are there collaboration opportunities being missed? Under-supported?
Data Available for Scholars@Cornell
Scholars@Cornell Feeds
Sample “Uber” Record

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Scholars@Cornell Person-to-Subject-Area Inference

Partnerships with Cornell Academic Community are vital to Scholars@Cornell, with Symplectic Elements serving as an entry-point.
Demo
Demo: Homepage Browse Options
Demo: High-Level Visualizations & Numbers
Demo: Browsing Departments
Demo: Person to Subject Visualization
Demo: Faculty Research Interests Visualization
King, Michael R.

- Professor, Meinig School of Biomedical Engineering, College of Engineering

### Publications

**Journal Article**

- **Effect of Pseudopod Extensions on Neutrophil Hemodynamic Transport Near a Wall.** *Cellular and Molecular Bioengineering.* 85-95. 2016

- **Super natural killer cells that target metastases in the tumor draining lymph nodes.** *Biomaterials.* 66-76. 2016

Demo: Department Collaborations Visualization
Exposing Data from Scholars@Cornell

• No open SPARQL endpoint at present.
• Plan to keep URIs for faculty members in perpetuity.
  • Will indicate that someone is an ex-faculty member.
• Other universities can see that “current in context of Cornell” information.
• Vitro/VIVO APIs.
Thank you!

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