My journey in becoming a Data Savvy Librarian
- a call to colleagues to become one too

Jeannette Ekstrøm
Senior information officer
Technical University of Denmark
jeek@dtu.dk
Twitter: @JEkstroem
A "Wordle" I created in Google Docs with skills and competences I address every day as an active academic librarian.

DTU Library, Technical University of Denmark
Teamed up to focus on Open Access advocacy

Mikael Elbaek – @melbaek

Former Seniorconsultant at DTU -> Seniorconsultant at Devoteam
<table>
<thead>
<tr>
<th>Year</th>
<th>Method</th>
<th>Sensitivity</th>
<th>Specificity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>Mayor</td>
<td>0.34</td>
<td>0.50</td>
</tr>
<tr>
<td>2005</td>
<td>Mockenhaupt</td>
<td>0.15</td>
<td>0.30</td>
</tr>
<tr>
<td>2006</td>
<td>Mockenhaupt</td>
<td>0.18</td>
<td>0.32</td>
</tr>
<tr>
<td>2011</td>
<td>Omer</td>
<td>0.24</td>
<td>0.60</td>
</tr>
<tr>
<td>2010</td>
<td>Rantala</td>
<td>0.10</td>
<td>0.42</td>
</tr>
<tr>
<td>2002</td>
<td>Saha</td>
<td>0.21</td>
<td>0.70</td>
</tr>
<tr>
<td>2004</td>
<td>Singer</td>
<td>0.20</td>
<td>0.70</td>
</tr>
<tr>
<td>2010</td>
<td>Taylor</td>
<td>0.15</td>
<td>0.70</td>
</tr>
</tbody>
</table>
... new kind of questions appears

- A researcher asked for assistance to compare articles from 6 different journals – in order to learn about citation patterns!

- A PhD student wishes to Textmine/Datamine research output from our local CRIS (DTU ORBIT Metadata and FullText) [PURE and Fedora]

- A researcher wants to know, what’s the difference between Web of Science and Scopus?

- An standard assignment with a big literature-review-search left me with lot´s of messy data to clean!

- A research assistance needed help with both searching and structuring the results – if the skills had been there (TDM) we could have solved the whole thing
  [Funding body mentioned and credited in Acknowledgement field]
So how to plan for skills development ...

DataSavvyTraining4Librarians at DTU Library

http://www.altbibl.io/dtu/
DST4L provided new skills & new knowledge

- Application before being accepted as attendee
- Hands-on training and skills development
- For librarians and others working with or wanting to know about data science tasks
- Focus on Data Science methods like cleaning, sharing, visualizing and handling data

Teaching librarians to be data scientist - 2013
Example from the first workshop at DTU Library in 2015

DST4L participants getting their hands dirty at DTU Library
Do research librarians have a role as data scientists? We think so! Follow the #DST4L live tweets 9-11 Sept altbibl.io/dtu/

Spending the evening preparing for #DST4L. Feeling a strange mixture of excitement and terror at going so far out of my librarian comfort zone.

Absolutely. really an eye-opener. cadeau to the presenters and the #dst4l event so far. twitter.com/clauersen/stat...

Academia has changed. And so should/will librarianship. Good starting point is #DST4L #openscience #highered twitter.com/dst4l/status/6...
Communication & motivation for others
The committee for a DST4L re-make in 2016
The webside were built by use of GitHub

https://github.com/JeannetteE/dst4l
DATA SCIENTIST TRAINING FOR LIBRARIANS
@COPENHAGEN

WHEN?
DECEMBER 7-9, 2016

WHERE?
DTU LIBRARY COPENHAGEN

http://www.dst4l.info
After the two events we agreed to found a Data Savvy Librarians network in Denmark

Founded a Data Science Faggruppe with the Library Union on March 1st 2017
Python – Do not be afraid of snakes

print("Hello, world!")
Workshop 2

Another meetup with basic introduction to GitHub
Workshop 4

And a third meeting with File cleaning & IBM Watson Analytics
The latest workshop was Jupyter Notebooks

Every workshop we plan will include HANDS ON
Invitations from international players

1. 2nd EDISON Champions Conference, Madrid 15.-16. marts 2017

2. Data Science in Libraries workshop, Pittsburgh 16.-17. maj 2017
The best invitations has to do with Teaching & Inspiring other colleagues


---

Introduction to Data Science Tools at Uppsala University Library the 11th of January 2018

- how to clean, share and visualize datasets and search results by use of tools like OpenRefine, GitHub and VosViewer

The main focus of this workshop is to take “dealing with data, working with data and understanding data” down to a level, where Librarians can see themselves getting involved and contributing, without being “too much out of our daily comfort zones”
The journey involves colleagues & networking
Since DST4L came to DTU & Denmark - Active projects appears

A DEFF funded project on Data Visualization
http://libguides.sdu.dk/roi-av

Make Data Sexy Again

March 13th of this year, a new DEFF project called "Research Output & Impact Analyzed and Visualized" was launched. The aim is to teach participants to complement data-rich bibliometric and other analyses with data visualizations. Libraries often prepare analyses for the management at the library or university, but frequently data analyses can be hard to understand and overview, and that is where visualizations can be helpful. Just think of the many great infographics that flourish on the web, or the newspapers' graphical representations of complex issues. They all have the purpose to facilitate the understanding of the data or possibly even reveal new insights into the data set. The project aims to:

- Introduce Danish university libraries and information services to the best/most relevant of these new tools.
- Engage a group of university libraries and information services in hands-on prototyping with these tools and share the experience with the wider DEFF community.
- Build new competences in this area and share the learning with the DEFF-community.
- Build a prototype VIVO Linked Data system with international quality andmetro for a single university, demonstrating the power of VIVO coupled with quality data as a platform for university research analytics and visualizations.
- Connect Danish experts to international experts and communities leading the development in this area.

And as a result:

- Help Danish university libraries and information services serve their universities better and in a more up-to-date fashion in the area of research analytics and research intelligence.

The project has participants from the University of Copenhagen, The Royal Library, Copenhagen and Aarhus, the Technical University of Denmark and the University of Southern Denmark.

Project package focused on analytical visualization tools

The project is currently active in part that deals with competency development of the participants, and works in smaller groups with tools like VIVO for Science of Science (Sci2) Tool, Tableau, Excel, GraphPad, R, Write: OPERA/FRÆNCH and Google Data Studio.

Work package focused on VIVO as a Research Analytics Platform

In the work package focused on VIVO as a Research Analytics Platform, a co-publication analysis module including a report generator and visualization has been developed. The effort is currently focused on optimizing data and the report generator.

Stay tuned

All the cool new tools we test, and helpful resources we come across during our journey, we’ll share with you on this site - so stay tuned!

Follow the project on Twitter: @roiav and #roiav
Active projects

DEFF funded project on OA and APCs

Several workshops planned, with both learning and knowledge sharing
- In regards to the project
- In regards to skills development
.. as of this year a new DEFF project started

Focusing on skills development in relation to Open Science and Digital Literacy
It is never too late 😊

Paula Martinez Lavanchy @paulammartinez2 · Jun 29
That's my girl! @JEkstroem Best smile and hugs ever! <3

Kasper Bogh @Ksrbgh
Celebrating the amazing and wonderful @JEkstroem today. She has served 25 years in Government service, and is - no contest - my favorite colleague at @DTUtweet. Congratulations Jeannette! (Couldn't get a good...

1 reaction

JeannetteEkstroem @JEkstroem
Replying to @paulammartinez2
Huge smiles and happy hugs back - see you for our #datasurveyaboutwhatstudentsneedsupport!

12:51 PM - 29 Jun 2018

JeannetteEkstroem

Replying to @Ksrbgh
Thanks @Ksrbgh - the feeling is mutual. 25 years as 'civil servant' - uhhh time goes by quickly when having fun and doing stuff you feel matters👍🏼 enjoying a glass of rose, with my new book @nikolinedohm @karenhytteballe @paulammartinez2 @jahcranfield

12:39 PM - 29 Jun 2018

9 Likes
Jonas Petersson @jonesEternity · Jun 7

#OpenSpace activity interesting discussions with the group #CKIX2018

How much 'data' should a librarian know?
Thank you

Mail: jeek@dtu.dk
Twitter: @JEkstroem
LinkedIn: dk.linkedin.com/in/jeannetteekstroem/
Google+ bibelib@gmail.com
+ Mendeley
+ Zotero
+ ResearchGate
+ Academia.edu
+ Loops
+ GitHub
+ Figshare
+ Slideshare.net
+ Impact story
+ Altmetrics
+ Kudos
+ Wordpress
+ ORCID 0000-0003-2791-4219