



Science Stories

Women in Science at Yale

Katherine Thornton and Kenneth Seals-Nutt

May 2, 2018

Table of contents

1. Collaboration
2. Project Motivation
3. Open Technologies and Cultural Heritage
4. Demo
5. Going Further

Collaboration

Our Collaboration

- **Kat** is a CLIR postdoctoral fellow in Computer Science (Dr. Holly Rushmeier) and Digital Preservation of YUL (Euan Cochrane)
- **Kenneth** is a senior undergraduate Computer Science major
- Kenneth has been a student employee of **Digital Preservation** since 2016
- We began **collaborating** on Science Stories in October, 2017

- Department of Computer Science
- Yale University Library
- Manuscripts and Archives
- Yale Peabody Museum
- Yale Center for British Art

Project Motivation



When Will the Gender Gap in Science Disappear?

A new study estimates that it will take 16 years for women and men to publish papers in equal numbers. For physics, it will take 258.

ED YONG | APR 19, 2018 | SCIENCE

Figure 1: Link to article in The Atlantic from April 19, 2018

“In physics, the gender gap might take 258 years to fully close.”

Gender Gap in Wikidata

Global Gender Gap



Figure 2: Source: <https://denelezh.dicare.org/gender-gap.php>

To Honor the 50/150 Anniversary of Women at Yale

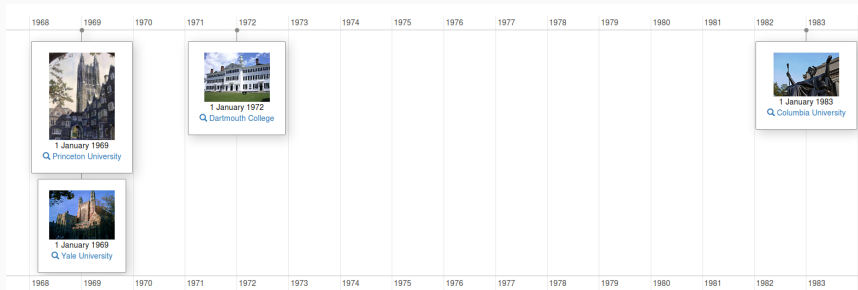


Figure 3: Snippet of Timeline of Ivy League Undergraduate Coeducation

Unforgetting is the act of purposively engaging with, and drawing attention to, aspects of history that those with privilege would benefit from forgetting [3].



Figure 4: “(left to right):—Miss Yvette Fay Francis and Miss Doris Louise Wethers, both of New York City, are students at the Yale University School of Medicine.” Yale events and activities photographs, 1852–2003 (inclusive). Manuscripts & Archives, Yale University.

Metadata from different collections


V • T • E		Yale University	[hide]
People	Namesake: Elihu Yale • President: Peter Salovey (predecessors) • Provost: Ben Polak • Faculty • Sterling Professors • People list		
Schools	Undergraduate: Yale College • Graduate: Graduate School of Arts & Sciences • Professional: Architecture • Art • Divinity • Drama • Engineering & Applied Science • Forestry & Environmental Studies • Law • Management • Medicine • Music • Nursing • Public Health • Institute of Sacred Music • Defunct: Sheffield Scientific School		
Campus	Connecticut Hall • Old Campus • Memorial Quadrangle • Harkness Tower • Hewitt Quadrangle • Hillhouse Avenue • Science Hill • Yale-Myers Forest • Horchow Hall • Steinbach Hall • Edward P. Evans Hall		
Residential colleges	Berkeley • Branford • Davenport • Ezra Stiles • Jonathan Edwards • Franklin • Hopper (formerly Calhoun) • Morse • Pauli Murray • Pierson • Saybrook • Silliman • Timothy Dwight • Trumbull		
Library and museums	Yale University Library • Sterling Memorial Library • Beinecke Rare Book & Manuscript Library • Harvey Cushing/John Hay Whitney Medical Library • Lillian Goldman Law Library • Bass Library • Lewis Walpole Library • Peabody Museum of Natural History • Yale University Art Gallery • Yale Center for British Art • Collection of Musical Instruments		
Research centers	Child Study Center • Cowles Foundation • Haskins Laboratories • Human Relations Area Files • MacMillan Center • Rudd Center • Yale Cancer Center		
Athletics	Team: Yale Bulldogs • Mascot: Handsome Dan • Arenas: Yale Bowl (football) • Ingalls Rink (hockey) • Yale Golf Course • Yale Field (baseball) • Reese Stadium (soccer and lacrosse) • Payne Whitney Gymnasium • Rivalries: Harvard-Yale Regatta • Harvard-Yale football rivalry		
International	Gruber Foundation • Jackson Institute for Global Affairs • Yale World Fellows • Paul Mellon Centre for Studies in British Art • Yale-NUS College		
Related	In popular culture		
Category • Commons • Wikinews			

Figure 5: <https://en.wikipedia.org/wiki/Template:Yale>

Open Technologies and Cultural Heritage

- Inspectable, free-software infrastructure [5]
- First read-write GUI for the semantic web [1, 2]
- Content license is CC0
- Machine-actionable linked open data
- FAIR data



- Open API specifications
- Enables interoperability of digital assets across institutions
- Widely-adopted by cultural heritage institutions



Demo

Going Further



- Intro to Wikidata
- Getting data from Wikidata
- Explore the Denelezh tool by Envel Le Hir to learn more about Wikidata & the gender gap



- IIF site
- How YCBA is using IIF
- British Library demo
- Collection of IIF tools and resources
- Benefits of IIF

Learn more about Science Stories

- Science Stories site
- Wikidata project space
- Github repository

Thank you!
katherine.thornton@yale.edu



Acknowledgements

- Euan Cochrane
- Holly Rushmeier
- The Council on Library and Information Resources
- Susan Gibbons
- Emmanuelle Delmas-Glass, Michael Appleby
- Christine Weideman, Michael Lotstein, Alison Clemens, Kevin Glick
- David Skelly, Tim White, Larry Gall, Nicole Palffy-Muhoray, Eric Lazo-Wasem, Patrick Sweeney
- The Wikidata community
- The Wikicite community [4]
- The Science Stories logo was created by Kaia Chessen



S. Burgstaller-Muehlbacher, A. Waagmeester, E. Mitraka, J. Turner, T. Putman, J. Leong, C. Naik, P. Pavlidis, L. Schriml, B. M. Good, et al.

Wikidata as a semantic framework for the gene wiki initiative.

Database, 2016:baw015, 2016.



B. M. Good, S. Burgstaller-Muehlbacher, E. Mitraka, T. Putman, A. I. Su, and A. Waagmeester.

Opportunities and challenges presented by wikidata in the context of biocuration.

In *ICBO/BioCreative*, 2016.



B. Subramaniam.

Ghost stories for Darwin: The science of variation and the politics of diversity.

University of Illinois Press, 2014.



D. Taraborelli, J. M. Dugan, L. Pintscher, D. Mietchen, and C. Neylon.

Wikicite 2016 report.

November 2016.



D. Vrandečić.

Wikidata: A new platform for collaborative data collection.

In Proceedings of the 21st international conference companion on World Wide Web, pages 1063–1064. ACM, 2012.