OxPoints and data.ox.ac.uk

Linked open data, and how it could work to your advantage

Slides at:

http://is.gd/dnV43h

Alexander Dutton

InfoDev, OUCS

What is OxPoints?

- A database of locations and units
  - Divisions, departments and colleges
  - Libraries and sublocations
  - Sites, buildings and rooms
  - Relationships (occupation, org structure)
  - Images, logos and Twitter account names
- Open
- Machine-readable in various formats

OxPoints coverage

- All colleges, PPHs and departments
- Most University-owned or -occupied buildings (including locations)
- All libraries and sublocations
  - Still need to integrate new ILS data
- Locations of all college and PPH lodges
- Some rooms (meeting and teaching)
  - More coming, including college rooms

Types of OxPoints data

- Names (inc. preferred, alternate and hidden)
- Locations (latitude and longitude)
- Addresses and telephone numbers
- URLs (homepage, IT support, WebLearn)
- Identifiers (OUCS, Estates, OLIS, OSM, Finance)
- Descriptions

Getting the data

- Path-based query syntax
- Available as JSON, JSONP, RDF/XML, KML
- Documentation at http://www.oucs.ox.ac.uk/oxpoints/
- Examples:
  - http://oxpoints.oucs.ox.ac.uk/type/College.kml
  - http://oxpoints.oucs.ox.ac.uk/oucs:manstud.json
  - http://oxpoints.oucs.ox.ac.uk/occupies/obn:381.xml
  - http://oxpoints.oucs.ox.ac.uk/isPartOf/00000000.n3

RSL (building)

```
−<rdf:RDF>
  −<oxp:Building rdf:about="http://oxpoints.oucs.ox.ac.uk/id/23233644">
      <foaf:depiction rdf:resource="http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-libra
      <foaf:depiction rdf:resource="http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-libra
      <foaf:depiction rdf:resource="http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-libra
      <geo:lat rdf:datatype="http://www.w3.org/2001/XMLSchema#float">51.758114</geo:lat>
      <owl:sameAs rdf:resource="http://linkedgeodata.org/triplify/way/31268991#id"/>
    −<vCard:adr>
      −<vCard:Address>
          <vCard:postal-code rdf:datatype="http://www.w3.org/2001/XMLSchema#string">OX1 3QP</vCard:post
          <vCard:locality rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Oxford</vCard:locality>
          <vCard:street-address rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Parks Road</vCard
        </vCard:Address>
      </vCard:adr>
      <dct:isPartOf rdf:resource="http://oxpoints.oucs.ox.ac.uk/id/59030245"/>
      <dc:title rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Radcliffe Science Library</dc:title>
      <skos:prefLabel rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Radcliffe Science Library</sk
      <foaf:depiction rdf:resource="http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-libra
      <oxp:hasOSMIdentifier rdf:datatype="http://www.w3.org/2001/XMLSchema#string">way/31268991</oxp:h
      <geo:long rdf:datatype="http://www.w3.org/2001/XMLSchema#float">-1.256305</geo:long>
      <oxp:hasOBNCode rdf:datatype="http://www.w3.org/2001/XMLSchema#string">225</oxp:hasOBNCode>
      <foaf:depiction rdf:resource="http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-libra
    </oxp:Building>
</rdf:RDF>
```

Radcliffe Science Library

Estates identifier	225
oxp:hasOSMIdentifier	way/31268991
Title	Radcliffe Science Library
Is Part Of	University Science Area
Spatial Coverage	POLYGON((-1.256271 51.7580983, -1.2560753 51.7577743, -1.2553588 51.7579402, -1.2554612 51.7581098, -1.2556018 51.7580772, -1.2555533 51.7579969, -1.2559532 51.7579044, -1.256095 51.758139, -1.256271 51.7580983))
type	building
sameAs	http://linkedgeodata.org/triplify/way/31268991#id
latitude	51.758114
longitude	-1.256305
preferred label	Radcliffe Science Library
address	Parks Road Oxford OX1 3QP
depiction	http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-library/radcliffesciencelibray-bicycleracks.jpg http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-library/radcliffesciencelibrary.jpg http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-library/radcliffesciencelibray-entrance.jpg http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-library/radcliffesciencelibray.jpg http://oxpoints.oucs.ox.ac.uk/images/buildings/23233644-radcliffe-science-library/radcliffesciencelibray-sign.jpg

Why use it?

- Centrally managed and maintained
- Links identifiers
- Lots of metadata
- Public domain (CC0; no attribution required)
- Extensible; if you need something else, ask us!
- Easy to integrate into existing systems
- Interoperate with other users of OxPoints

Who uses OxPoints?

- Public Affairs
- Mobile Oxford
- And possibly soon…
  - Time-tabling project
  - Nexus resource integration

UNIVERSITY OF OXFORD

› Staff
› Students
› Alumni
› Media

Enter search term | Pages | Contact People | Search

Quick links | Go

ADMISSIONS DIVISIONS COLLEGES VISITORS & FRIENDS INTERNATIONAL RESEARCH ENTERPRISE ABOUT THE UNIVERSITY

Home > Colleges > Map of the Colleges and Halls >

Colleges

- Colleges and Halls A-Z
- The collegiate system
- Choosing a college
- Student comments
- Map of the Colleges and Halls

Map of the Colleges and Halls

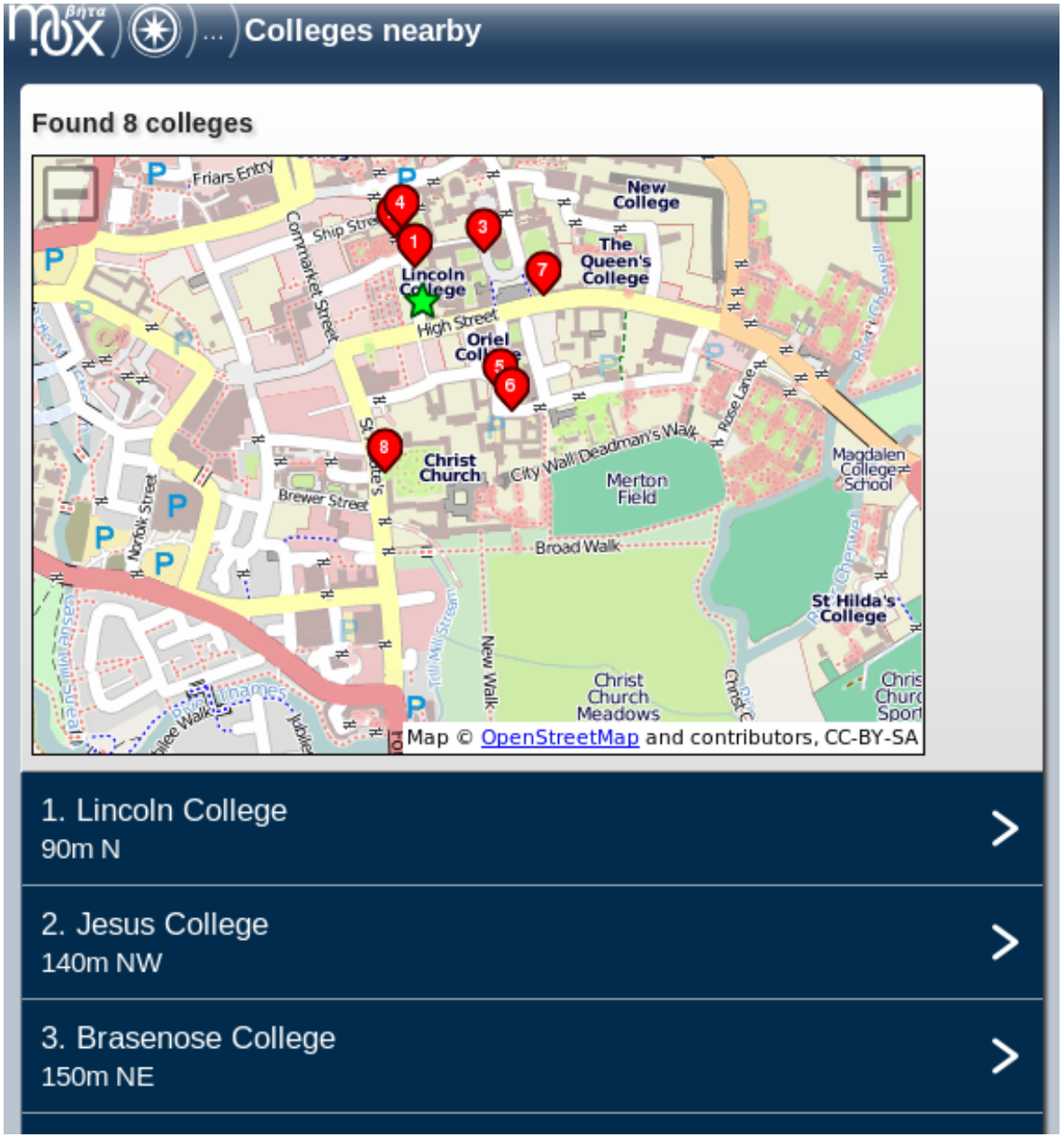
Please use the list below the map to find the location of a College or Hall at Oxford University. Alternatively, click on a blue shield to identify a particular college or a red shield for a PPH.

Key

College

Permanent Private Hall

Public Affairs Directorate



Mobile Oxford

all-ox-uni

All accounts held by University entities

A **public** list
Curated by Alexander Dutton

Edit | Delete

Tweets | **Following: 30** | Followers: **1**

People this list follows

OxfordUnion Oxford Union
Founded in 1823 and famously described as 'the last bastion of free speech', the Oxford Union is the most famous debating society in the world.

Follow

OxfordUniSport Oxford Uni Sport
Sporting news, info, scores, events and chat related to Oxford University Sport. Updated by the Sports Federation at Iffley Road Sport Centre www.sport.ox.ac.uk

Follow

StAnnesCollege St Anne's College
St Anne's is committed to keeping our world-wide community of 8,000 alumnæ and friends in touch with each other, and with the College. http://on.fb.me/c1h4lj

Follow

ousunews OUSU
Oxford University Student Union represents the students of Oxford University

Follow

Recently Following

This list's most recently followed accounts · view all

OxfordUnion Oxford Union · Follow
Founded in 1823 and famously described as 'th...

OxfordUniSport Oxford Uni Sport · Follow
Sporting news, info, scores, events and chat re...

StAnnesCollege St Anne's College · Follow
St Anne's is committed to keeping our world-wi...

ousunews OUSU · Follow
Oxford University Student Union represents th...

More lists by @alexsdutton · view all

- humanities
- socsci
- medsci
- mpls
- museums
- all-ox-uni
- departments
- colleges-pphs
- libraries

About Help Blog Mobile S
Shortcuts Advertisers Busi
Resources © 2011 Twitter

Twitter lists

OSM outlines

Next steps

- Lots more room data (courtesy of Earth Sciences)
- Nexus resource addresses
- Library codes and sublocations
- Releasing the editor
- More modelling:
  - Room layouts and capacities
  - 'Affiliatory' relationships (societies, colleges)

More information

- Join the mailling list:
  - oxpoints-users-subscribe@maillist.ox.ac.uk
- Read the documentation
  - http://www.oucs.ox.ac.uk/oxpoints/
- E-mail us:
  - oxpoints@oucs.ox.ac.uk

Linked data

Linked data

"In computing, linked data describes a method of publishing structured data so that it can be interlinked and become more useful. It builds upon standard Web technologies such as HTTP and URIs, but rather than using them to serve web pages for human readers, it extends them to share information in a way that can be read automatically by computers. This enables data from different sources to be connected and queried."

"Linked Data", Wikipedia, CC-BY-SA

data.ox.ac.uk

- A platform for linked data about the collegiate University
- Data available for re-use and integration
- Huge potential benefit for users within the institution

Potential benefits

- Display vacancies through Mobile Oxford
- Energy usage widgets on departments' and colleges' homepages
- Hook up to Exchange Web Services to show room booking availability for all rooms in a building along with capacities and images
- Undergraduate prospectus with admissions and graduate destination

Progress

- Still under heavy development
- Four datasets at the moment
  - OxPoints
  - OSM geometries for OxPoints
  - Electricity meter data
  - Norrington Table
- More datasets being sought and developed

Data ingest

- Formats:
  - Manually curated files
  - Spreadsheets / CSV
  - HTML
  - RDF
- Sources:
  - The web
  - E-mail
  - Other APIs
- Updated both by polling and manual

Open Data about the University of Oxford

data.ox.ac.uk

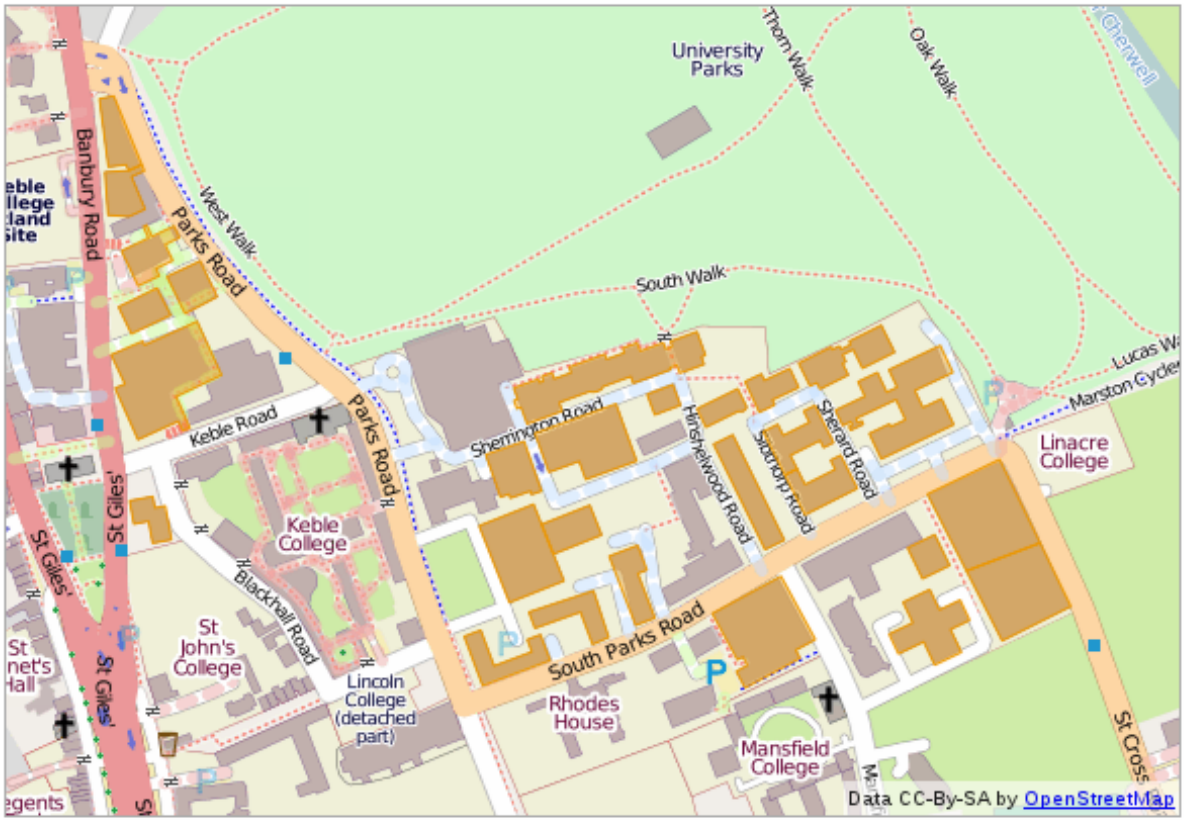
home datasets explore sparql help contact

Datasets

Name	Publisher	License	Description	
Norrington Table	Computing Services	CC0 1.0 Universal	Summary Final Honour School results and Norrington rankings for constituent colleges, societies and halls of the University of Oxford.	PUBLIC DOMAIN ★★★★★ OL RE OF URI LD
OpenMeters	University Estates Directorate	CC0 1.0 Universal	Cumulative energy consumption for meters at the University of Oxford, modelled using the DataCube vocabulary.	PUBLIC DOMAIN
OpenStreetMap geometries for OxPoints	Computing Services	Attribution-ShareAlike 2.0 Generic	Contains WKT literals taken from OpenStreetMap for places in OxPoints.	CC BY SA ★★★★★ OL RE OF URI LD
OxPoints	Computing Services	CC0 1.0 Universal	OxPoints is the University's geospatial, temporal and organisational RDF store. OxPoints aims to contain information about most political and built entities within the University, including college, department, building and rooms.	PUBLIC DOMAIN ★★★★★ OL RE OF URI LD

University Science Area Map

A re-imagining of the official science area map using OpenStreetMap and OxPoints data.



Department of Biochemistry
- Rodney Porter Building
- New Biochemistry Building
- Rex Richards Building
- Donald Woods Building

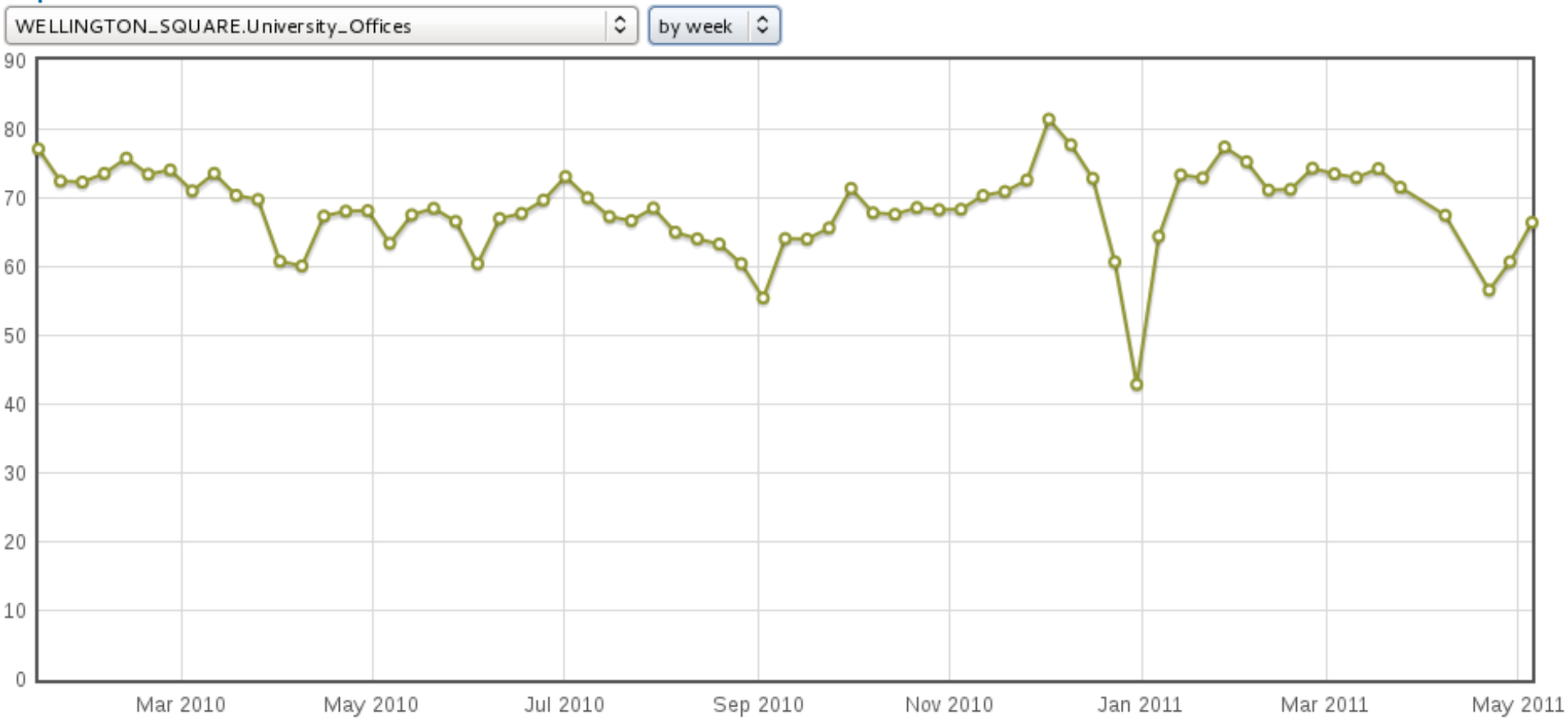
Department of Chemistry
Laboratory Chemical Biology
Organic Chemistry
Department of Engineering Science
- Thom Building
- Holder Building
- Jenkin Building
- Information Engineering

Inorganic Chemistry Laboratory
Department of Materials
Mathematical Institute
The Peter Medawar Building for Pathogen Research
Oxford University Bioinformatics Centre
- Pathology
- Rex Richards Building

Sir William Dunn School of Pathology
Department of Pharmacology
Department of Plant Sciences
- Plant Sciences South
- Plant Sciences North

Plant Sciences Library
Physical and Theoretical Chemistry Laboratory
Department of Earth Sciences
Pitt Rivers Museum
University Museum of Natural History
Medical Sciences Division
Astrophysics
Department of Physics
Particle Physics
Radcliffe Science Library
Centre for Cognitive Neuroscience

OpenMeters


WELLINGTON_SQUARE.University_Offices
by week
90
80
70
60
50
40
30
20
10
0
Mar 2010
May 2010
Jul 2010
Sep 2010
Nov 2010
Jan 2011
Mar 2011
May 2011

Keble College

http://www.keble.ox.ac.uk/

finance code	RJ
IT homepage	http://www.keble.ox.ac.uk/students/student-support/study-skills-and-assistance/it/
OUCS code	kebl
WebLearn site	http://weblearn.ox.ac.uk/site/colleges/keble/
occupies	Acland Site Keble College Keble College Sports Ground Felstead House
has primary place	Lodge
Title	Keble College
type	Oxford college
sameAs	http://dbpedia.org/resource/Keble_College,_Oxford
preferred label	Keble College
address	Parks Road Oxford OX1 3PG
depiction	http://oxpoints.oucs.ox.ac.uk/images/colleges/small/kebl.jpg
homepage	http://www.keble.ox.ac.uk/

Norrington Table Results

Yr	1st	2:1	2:2	3rd	O.	Tot	Score
'06						128	65.2%
'07						130	66.9%
'08	26	68	7	0	0	101	68.9%
'09	37	78	3	2	1	121	70.6%
'10	29	78	11	6	0	124	65.6%

Toolbox

What links here

Other things of type: Oxford college

View at sig.ma

Page metadata

Applicable licenses

Portions of data on this page are made available under the following licenses:

CC0 1.0 Universal

Datasets

Data for this page was drawn from the following datasets:

OxPoints

Norrington Table

Other formats

HTML

N-Triples

Notation3

RDF/XML

Turtle

Potential datasets

- Course advertisements
  - Undergraduate
  - Postgraduate
  - Oxford Learning Institute
  - Language Centre
- Job vacancies
- Statistics
  - Personnel, including diversity monitoring
  - Student admissions and outcomes
- Podcast metadata

Elsewhere…

University opens up its data to the 'app generation' of students

Ref: 11/21
07 March 2011

The University of Southampton is pioneering an open data revolution by publishing its non-personal data online to provide potential students with information that will help them make a choice about what and where to study.

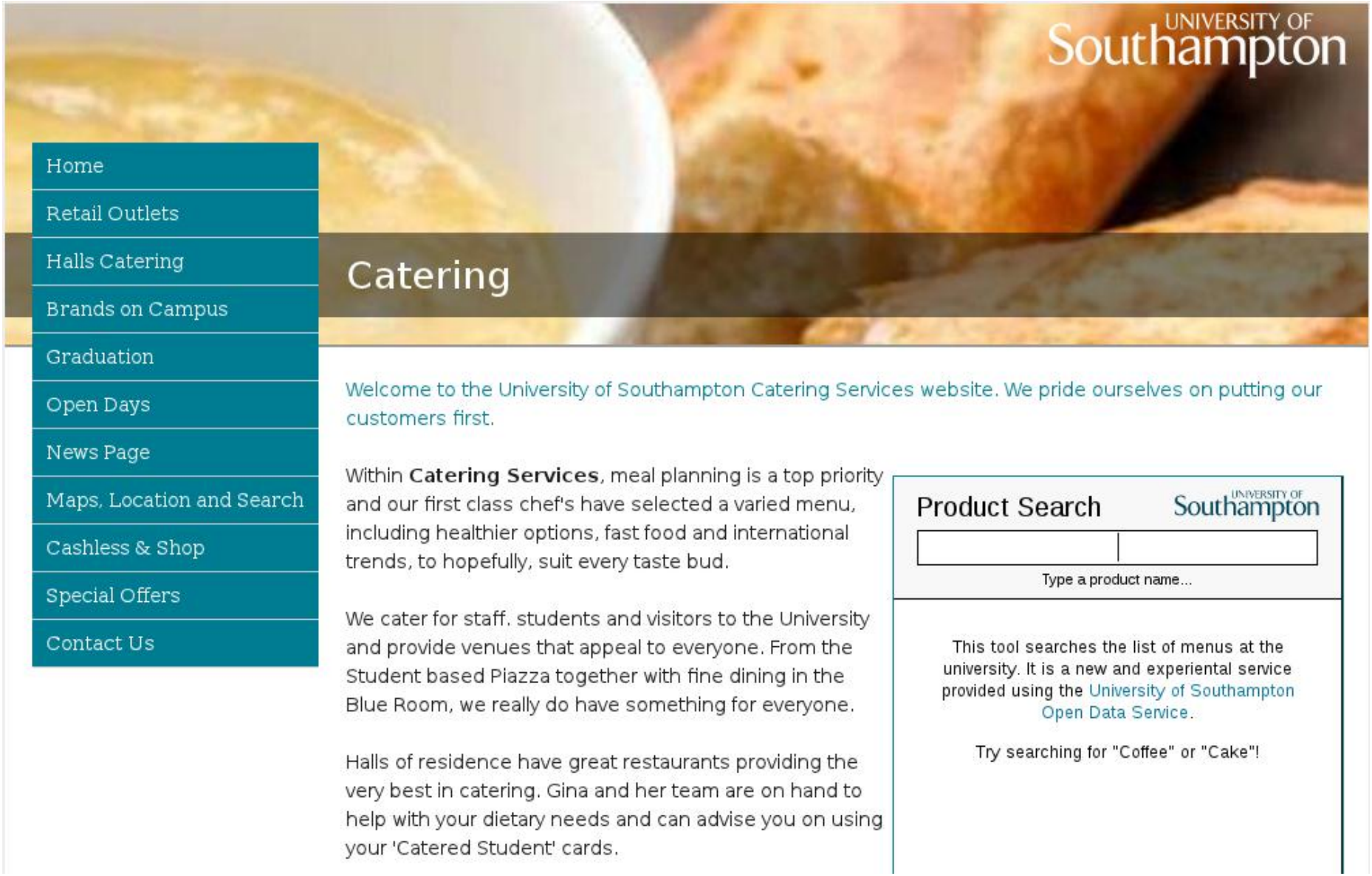
data.southampton.ac.uk (http://data.southampton.ac.uk/), which launches today (7 March), builds on the University's commitment to access by opening up a wide range of data for students to create the information they seek in the way that they want it, such as by developing iPhone apps.

There will be over 20 datasets available on **data.southampton.ac.uk** with information about University buildings, National Student Survey statistics, research outputs and financial statements. Over the coming year, the University will progressively increase the bank of data available.

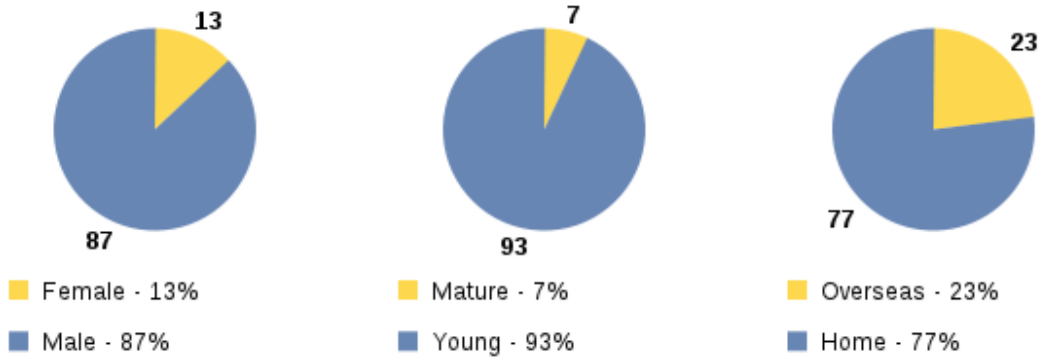
2011 UG prospectus iPhone app

data.southampton.ac.uk

- Buildings and Places
- Catering
- Common Learning Spaces Extra Information
- EPrints Repository
- EdShare
- EdShare Video
- Electronics and
- Photographs of University of Southampton Things
- Press Contacts Information
- Programmes (2010-2011 session)
- Public Phonebook

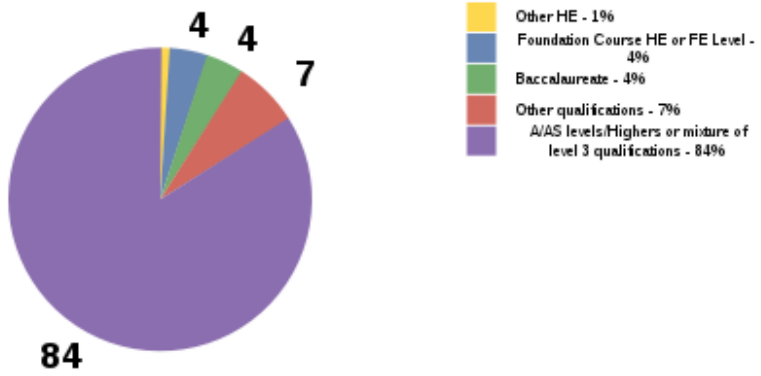

UNIVERSITY OF
Southampton
Home
Retail Outlets
Halls Catering
Brands on Campus
Graduation
Open Days
News Page
Maps, Location and Search
Cashless & Shop
Special Offers
Contact Us
Catering
Welcome to the University of Southampton Catering Services website. We pride ourselves on putting our customers first.
Within Catering Services, meal planning is a top priority and our first class chef's have selected a varied menu, including healthier options, fast food and international trends, to hopefully, suit every taste bud.
We cater for staff. students and visitors to the University and provide venues that appeal to everyone. From the Student based Piazza together with fine dining in the Blue Room, we really do have something for everyone.
Halls of residence have great restaurants providing the very best in catering. Gina and her team are on hand to help with your dietary needs and can advise you on using your 'Catered Student' cards.
Product Search
UNIVERSITY OF Southampton
Type a product name...
This tool searches the list of menus at the university. It is a new and experiental service provided using the University of Southampton Open Data Service.
Try searching for "Coffee" or "Cake"!

Gender balance, percentage of mature students, and percentage of overseas students:



Qualifications on Entry (students under 21)

Qualifications students in this category already had when they entered the degree.



Course statistics from UniStats

Summary

Summary

- Use OxPoints for your building and unit data. Feed back corrections.
- Linked data is still getting going. Let's show what can be done with it.
- If you have an idea for a dataset, visualization or consumer, please tell us!

Contact

OxPoints

Web: http://www.oucs.ox.ac.uk/oxpoints/
Team: oxpoints@oucs.ox.ac.uk
Mailling list: oxpoints-users@maillist.ox.ac.uk

Linked data

Web: http://data.ox.ac.uk/
Team: opendata@oucs.ox.ac.uk
Mailing list: opendata@maillist.ox.ac.uk