

Lars Holm Nielsen
CERN, IT Department

zenodo



Alfred P. Sloan
FOUNDATION



EASITrain Lectures Spring 2018, CERN, Geneva, March 07, 2018

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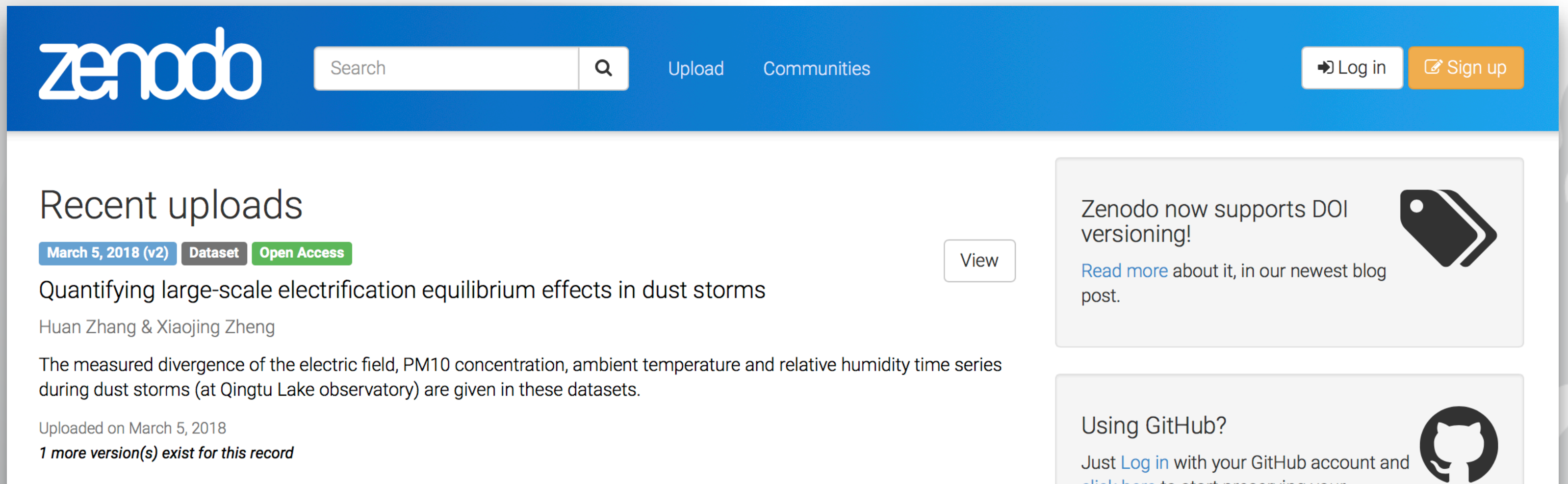
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Where?

Domain specific repositories



Where? Zenodo



The screenshot shows the Zenodo website's header and a recent upload. The header is a blue bar with the Zenodo logo on the left, a search bar in the center, and 'Upload' and 'Communities' links on the right. On the far right of the header are 'Log in' and 'Sign up' buttons. Below the header, the 'Recent uploads' section features a card for a dataset titled 'Quantifying large-scale electrification equilibrium effects in dust storms' by Huan Zhang & Xiaojing Zheng. The card includes a 'View' button and a '1 more version(s) exist for this record' note. To the right of the main content are two informational boxes: one about DOI versioning with a tag icon and a 'Read more' link, and another about using GitHub with the GitHub logo.

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March 5, 2018 (v2) Dataset Open Access

Quantifying large-scale electrification equilibrium effects in dust storms

Huan Zhang & Xiaojing Zheng


The measured divergence of the electric field, PM10 concentration, ambient temperature and relative humidity time series during dust storms (at Qingtu Lake observatory) are given in these datasets.

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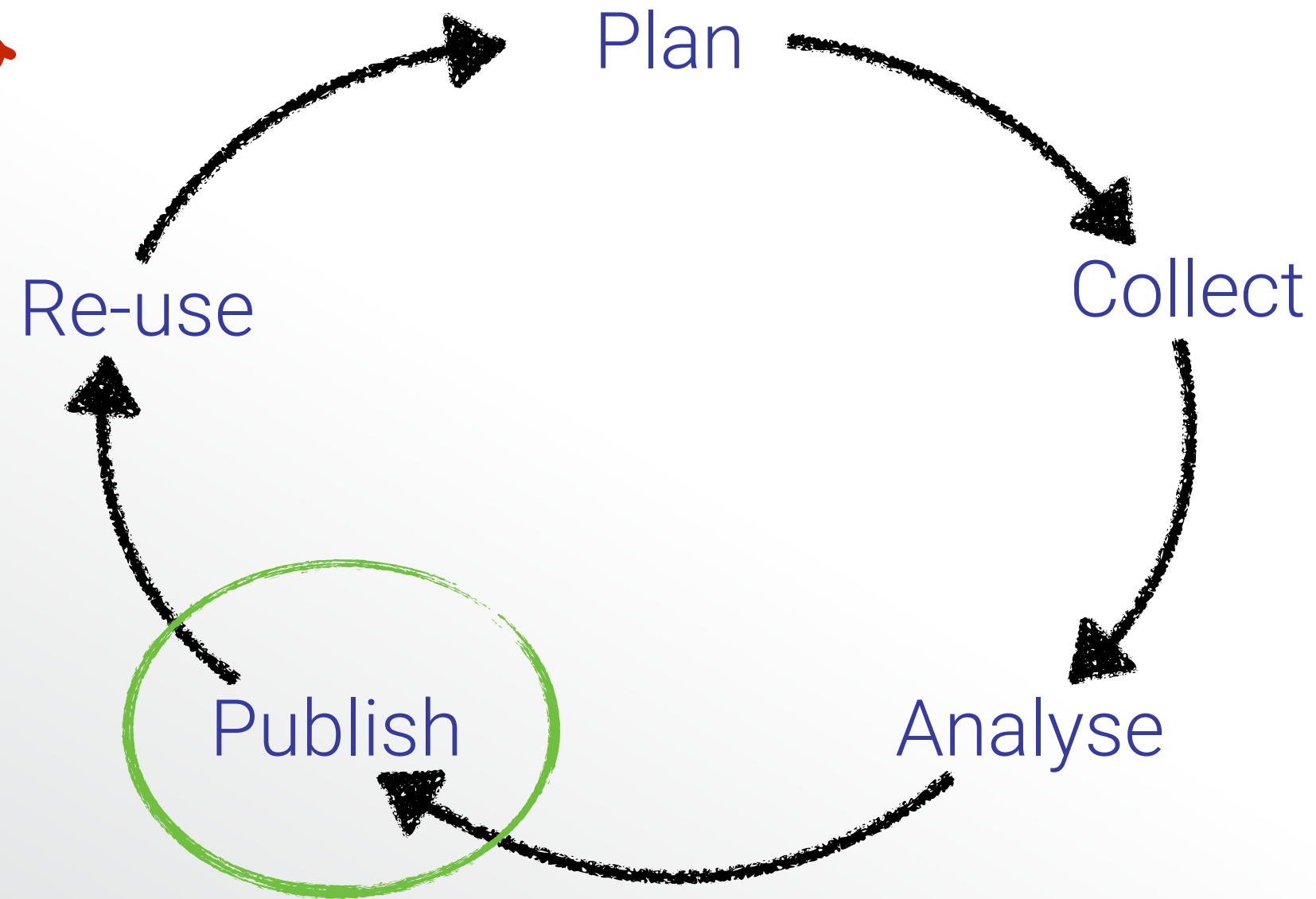
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Research data lifecycle

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The screenshot shows the Zenodo website interface. At the top, there is a blue navigation bar with the Zenodo logo on the left, a search bar in the center, and 'Upload' and 'Communities' links. On the right side of the bar are 'Log in' and 'Sign up' buttons. Below the navigation bar, the user's profile information is displayed: 'Department of Information and Communication Technologies, UPF, Barcelona'. Underneath this, there is a section for 'Recent uploads' with a search bar and a 'View' button. A green button labeled 'New upload' is also visible. The bottom part of the screenshot shows a snippet of a recent upload with the title 'From heuristics-based to data-driven audio melody extraction', a date of 'June 27, 2017 (v1)', and tags for 'Thesis' and 'Open Access'. Logos for 'Universitat de Barcelona' and 'EXCELENCIA MARÍA' are also present.

Digital Object Identifier

Physics Letters B 716 (2012) 1–29

Contents lists available at SciVerse ScienceDirect

Physics Letters B

www.elsevier.com/locate/physletb

Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC[☆]

ATLAS Collaboration^{*}
This paper is dedicated to the memory of our ATLAS colleagues who did not live to see the full impact and significance of their contributions to the experiment.

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<http://dx.doi.org/10.1016/j.physletb.2012.08.020>

proton–proton collisions with the ATLAS detector at the LHC. The integrated luminosities of approximately 4.8 fb⁻¹ at $\sqrt{s} = 7$ TeV and 2.3 fb⁻¹ at $\sqrt{s} = 8$ TeV in 2012. Individual searches in the channels $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$ in the 8 TeV data are combined with previously published results in the 7 TeV data and results from $H \rightarrow \gamma\gamma$ channels in the 7 TeV data. Clear evidence for the existence of a scalar particle, the SM Higgs boson, is observed, with a significance of 5.9 standard deviations, corresponding to a background fluctuation probability of 1.7×10^{-9} , is compatible with the production and decay of the Standard Model Higgs boson.

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1. Introduction

The Standard Model (SM) of particle physics [1–4] has been tested by many experiments over the last four decades and has been shown to successfully describe high energy particle interactions. However, the mechanism that breaks electroweak symmetry in the SM has not been verified experimentally. This mechanism [5–10], which gives mass to massive elementary particles, implies the existence of a scalar particle, the SM Higgs boson. The search for the Higgs boson, the only elementary particle in the SM that has not yet been observed, is one of the highlights of the Large Hadron Collider (LHC) physics programme.

Indirect limits on the SM Higgs boson mass of $m_H < 158$ GeV at 95% confidence level (CL) have been set using global fits to precision electroweak results [12]. Direct searches at LEP [13], the Tevatron [14–16] and the LHC [17,18] have previously excluded, at 95% CL, a SM Higgs boson with mass below 600 GeV, apart from some mass regions between 116 GeV and 127 GeV.

Both the ATLAS and CMS Collaborations reported excesses of events in their 2011 datasets of proton–proton (pp) collisions at centre-of-mass energy $\sqrt{s} = 7$ TeV at the LHC, which were compatible with SM Higgs boson production and decay in the mass region 124–126 GeV, with significances of 2.9 and 3.1 standard deviations (σ), respectively [17,18]. The CDF and D0 experiments at the Tevatron have also recently reported a broad excess in the mass region 120–135 GeV; using the existing LHC constraints, the observed local significances for $m_H = 125$ GeV are 2.7σ for CDF [14], 1.1σ for D0 [15] and 2.8σ for their combination [16].

The previous ATLAS searches in 4.6–4.8 fb⁻¹ of data at $\sqrt{s} = 7$ TeV are combined here with new searches for $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$, $H \rightarrow \gamma\gamma$ and $H \rightarrow WW^{(*)} \rightarrow \ell\nu\mu\nu$ in the 5.8–5.9 fb⁻¹ of pp collision data taken at $\sqrt{s} = 8$ TeV between April and June 2012.

The data were recorded with instantaneous luminosities up to 6.8×10^{33} cm⁻²s⁻¹; they are therefore affected by multiple pp collisions occurring in the same or neighbouring bunch crossings (pile-up). In the 7 TeV data, the average number of interactions per bunch crossing was approximately 10; the average increased to approximately 20 in the 8 TeV data. The reconstruction, identification and isolation criteria used for electrons and photons in the 8 TeV data are improved, making the $H \rightarrow ZZ^{(*)} \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ searches more robust against the increased pile-up. These analyses were re-optimised with simulation and first used before looking at the 8 TeV data.

In the $H \rightarrow WW^{(*)} \rightarrow \ell\nu\ell\nu$ channel, the increased pile-up deteriorates the event missing transverse momentum, E_T^{miss} , resolution, which results in significantly larger Drell–Yan background in the same-flavour final states. Since the $e\mu$ channel provides most of the sensitivity for the search, only this final state is used in the analysis of the 8 TeV data. The kinematic region in which a SM Higgs boson with a mass between 110 GeV and 140 GeV is

[☆] CERN for the benefit of the ATLAS Collaboration.
^{*} E-mail address: atlas.publications@cern.ch.

¹ The symbol ℓ stands for electron or muon.

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Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC

ATLAS Collaboration (Georges Aad (Freiburg U.) et al.) [Show all 2932 authors](#)

Jul 2012 - 29 pages

Phys.Lett. B716 (2012) 1-29
(2012-09-17)

DOI: [10.1016/j.physletb.2012.08.020](https://doi.org/10.1016/j.physletb.2012.08.020)

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Abstract (Elsevier)

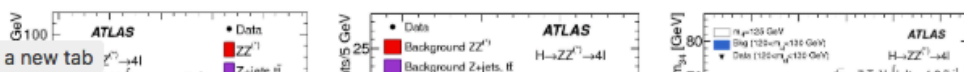
A search for the Standard Model Higgs boson in proton–proton collisions with the ATLAS detector at the LHC is presented. The datasets used correspond to integrated luminosities of approximately 4.8 fb⁻¹ collected at s=7 TeV in 2011 and 5.8 fb⁻¹ at s=8 TeV in 2012. Individual searches in the channels H→ZZ(*)→4ℓ, H→γγ and H→WW(*)→eνμν in the 8 TeV data are combined with previously published results of searches for H→ZZ(*) , WW(*) , bb⁻ and τ+τ- in the 7 TeV data and results from improved analyses of the H→ZZ(*)→4ℓ and H→γγ channels in the 7 TeV data. Clear evidence for the production of a neutral boson with a measured mass of 126.0±0.4(stat)±0.4(sys) GeV is presented. This observation, which has a significance of 5.9 standard deviations, corresponding to a background fluctuation probability of 1.7×10⁻⁹, is compatible with the production and decay of the Standard Model Higgs boson.

[Abstract \(arXiv\)](#)

PDG: [Direct Mass Limits for H0](#) | [Combined Final States](#) | [More](#)

Note: 24 pages plus author list (38 pages total), 12 figures, 7 tables, revised author list, matches version to appear in Physics Letters B

Keyword(s): INSPIRE: [Higgs particle: mass: measured](#) | [new particle: Higgs particle](#) | [background](#) | [p.p: scattering](#) | [Higgs particle: radiative decay](#) | [final state: two-photon](#) | [gauge boson: pair production](#) | [Higgs particle: decay modes](#) | [new particle: spin](#) | [CERN LHC Coll](#) | [ATLAS](#) | [experimental results](#) | [Higgs particle --> ZZ0](#) | [Higgs particle --> 2photon](#) | [Higgs particle --> W+ W-](#) | [Higgs particle --> tau+ tau-](#) | [Higgs particle --> bottom anti-bottom](#) | [Z0 --> lepton+ lepton-](#) | [W --> lepton neutrino](#) | [7000: 8000 GeV-cms](#)



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(1052) [Handbook of LHC Higgs Cross Sections: 3. Higgs Properties](#), FERMILAB-CONF-13-667-T

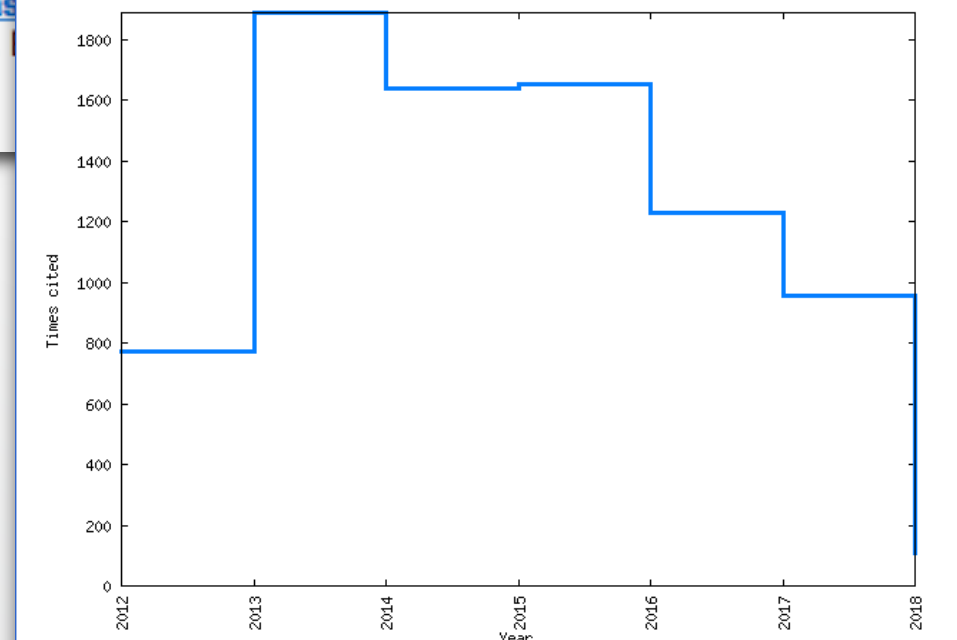
(1020) [Combined Measurement of the Higgs Boson Mass in pp Collisions](#) (Aad, Georges et al.) Phys.Rev.Lett. 114 (2015) 19180

(750) [Investigating the near-criticality of the Higgs boson - Buttazzoni et al.](#) UAM-CSIC-13-081, IFUP-TH

(657) [Precise determination of the mass of the Higgs boson and constraints on its couplings from a combined ATLAS and CMS search](#)

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Knowledge Extraction And Representation Learning For Music Recommendation And Classification

Sergio Oramas

Thesis published 2017 via Zenodo

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Wu, J., Vincent, E., Raczyński, S., Nishimoto, T., Ono, N., & Sagayama, S. (2011). Polyphonic pitch estimation and instrument identification by joint modeling of sustained and attack sounds. *IEEE Journal of Selected Topics in Signal Processing*, 5(6), 1124–1132. [doi:10.1109/JSTSP.2011.2158064](https://doi.org/10.1109/JSTSP.2011.2158064)

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Abstract:

Polyphonic pitch estimation and musical instrument identification are some of the most challenging tasks in music information retrieval (MIR). While existing approaches have focused on the modeling of harmonic partials, we design a joint Gaussian mixture model of the harmonic partials and the inharmonic attack of each note. This model encodes the power of each partial over time as well as the spectral envelope of the attack part. We derive an expectation-maximization (EM) algorithm to estimate the pitch and the parameters of the notes. We then extract timbre features both from the harmonic and the attack part via principal component analysis (PCA) over the estimated model parameters. Musical instrument recognition for each estimated note is finally carried out with a support vector machine (SVM) classifier. Experiments conducted on mixtures of isolated notes as well as real-world polyphonic music show higher accuracy over state-of-the-art approaches based on the modeling of harmonic partials only.

Published in: IEEE Journal of Selected Topics in Signal Processing (Volume: 5, Issue: 6, Oct. 2011)

Page(s): 1124 - 1132

INSPEC Accession Number: 12228466

Date of Publication: 31 May 2011 ?

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Polyphonic pitch estimation and instrument identification by joint modeling of sustained and attack sounds

Jun Wu, Emmanuel Vincent, Stanisław Andrzej Raczyński, Takuya Nishimoto, Nobutaka Ono and Shigeki Sagayama



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June 27, 2017 (v1) Thesis Open Access

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From heuristics-based to data-driven audio melody extraction

Bosch, Juan J.;

The identification of the melody from a music recording is a relatively easy task for humans, but very challenging for computational systems. This task is known as "audio melody extraction", more formally defined as the automatic estimation of the pitch sequence of the melody directly from

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Knowledge Extraction and Representation Learning for Music Recommendation and Classification

Oramas, Sergio;

In this thesis, we address the problems of classifying and recommending music present in large collections. We focus on

New upload

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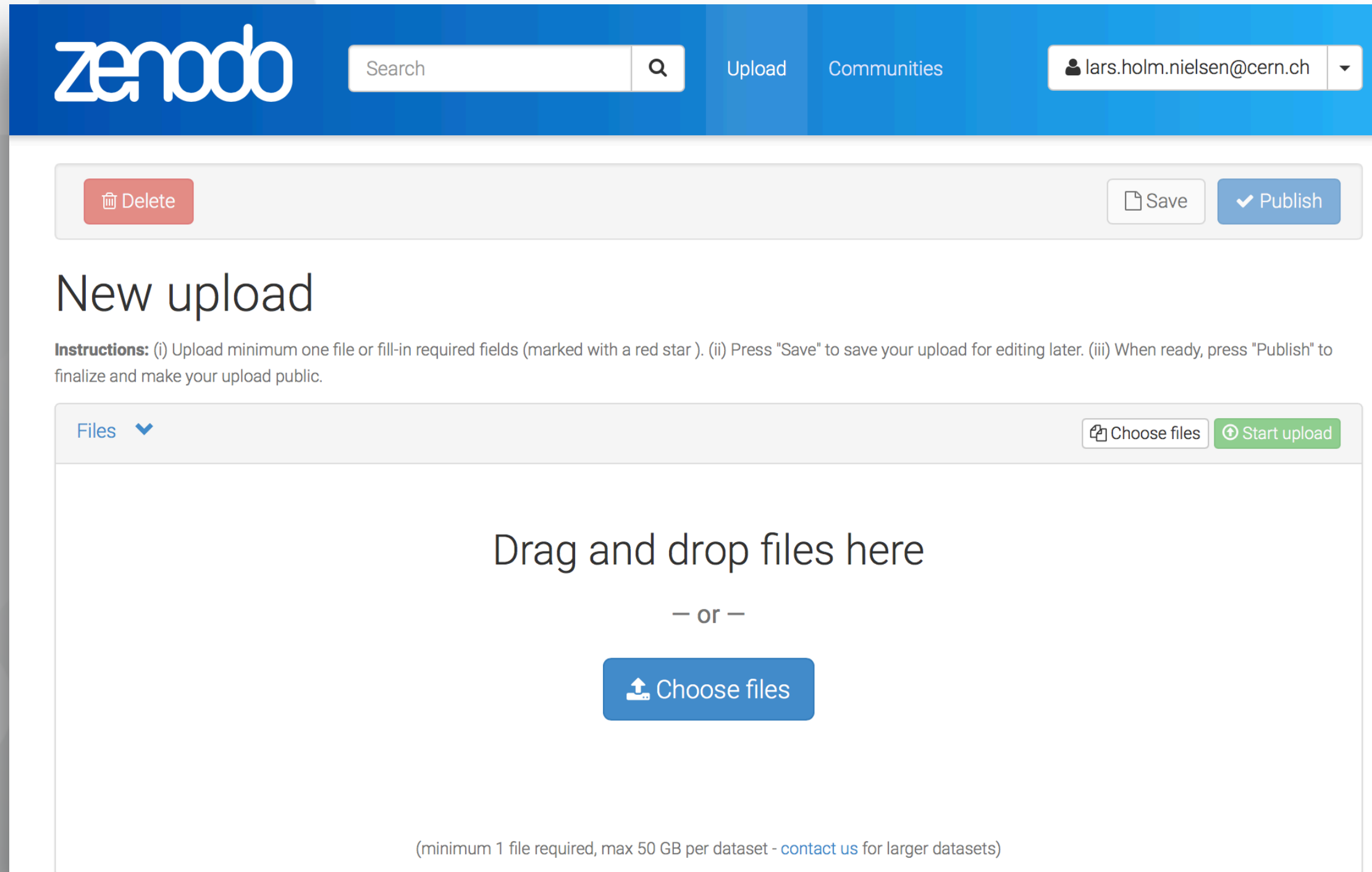
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November 14, 2017 Thesis Open Access

Knowledge Extraction and Representation Learning for Music Recommendation and Classification

Oramas, Sergio
Thesis supervisor(s)
Serra, Xavier

In this thesis, we address the problems of classifying and recommending music present in large collections. We focus on the semantic enrichment of descriptions associated to musical items (e.g., artists biographies, album reviews, metadata), and the exploitation of multimodal data (e.g., text, audio, images). To this end, we first focus on the problem of linking music-related texts with online knowledge repositories and on the automated construction of music knowledge bases. Then, we show how modeling semantic information may impact musicological studies and helps to outperform purely text-based approaches in music similarity, classification, and recommendation. Next, we focus on learning new data representations from multimodal content using deep learning architectures, addressing the problems of cold-start music recommendation and multi-label music genre classification, combining audio, text, and images. We show how the semantic enrichment of texts and the combination of learned data representations improve the performance on both tasks.

Full list of associated resources <http://sergiooramas.com/phd-thesis/>

Preview

Page: 1 of 203 Automatic Zoom


Publication date: November 14, 2017
DOI: DOI 10.5281/zenodo.1100973
Keyword(s): music information retrieval, recommender systems, natural language processing, deep learning, musicology, information extraction
Awarding University: Universitat Pompeu Fabra, Barcelona
Communities: Department of Information and Communication Technologies, UPF, Barcelona
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September 15, 2016

Journal article Embargoed Access

Early detection of human glioma sphere xenografts in mouse brain using diffusion MRI at 14.1 T

Porcari, P; Hegi, M E; Lei, H; Hamou, M-F; Vassallo, I; Capuani, S; Gruetter, R; Mlynarik, V

Glioma models have provided important insights into human brain cancers. Among the investigative tools, MRI has allowed their characterization and diagnosis. In this study, we investigated whether diffusion MRI might be a useful technique for early detection and characterization of slow-growing and diffuse infiltrative gliomas, such as the proposed new models, LN-2669GS and LN-2540GS glioma sphere xenografts. Tumours grown in these models are not visible in conventional T2-weighted or contrast-enhanced T1-weighted MRI at 14.1 T. Diffusion-weighted imaging and diffusion tensor imaging protocols were optimized for contrast by exploring long diffusion times sensitive for probing the microstructural alterations induced in the normal brain by the slow infiltration of glioma sphere cells. Compared with T2-weighted images, tumours were properly identified in their early stage of growth using diffusion MRI, and confirmed by localized proton MR spectroscopy as well as immunohistochemistry. The first evidence of tumour presence was revealed for both glioma sphere xenograft models three months after tumour implantation, while no necrosis, oedema or haemorrhage were detected either by MRI or by histology. Moreover, different values of diffusion indices, such as mean diffusivity and fractional anisotropy, were obtained in tumours grown from LN-2669GS and LN-2540GS glioma sphere lines. These observations highlighted diverse tumour microstructures for both xenograft models, which were reflected in histology. This study demonstrates the ability of diffusion MRI techniques to identify and investigate early stages of slow-growing, invasive tumours in the mouse brain, thus providing a potential imaging biomarker for early detection of tumours in humans.

Files

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Files are currently under embargo but will be publicly accessible after September 15, 2017.

Publication date:

September 15, 2016

DOI:

DOI 10.1002/nbm.3610

Published in:

Nmr In Biomedicine: 29 pp. 1577-1589.

Communities:

Faculty of Biology and Medicine at University of Lausanne & Lausanne University Hospital

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Cite as

Porcari, P, Hegi, M E, Lei, H, Hamou, M-F, Vassallo, I, Capuani, S, ... Mlynarik, V. (2016). Early detection of human glioma sphere xenografts in mouse brain using diffusion MRI at 14.1 T. Nmr in Biomedicine, 29(11), 1577–1589.
<http://doi.org/10.1002/nbm.3610>

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zenodo

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April 11, 2017

Dataset **Restricted Access**

Dataset Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study

Brovelli Sebastien; Dorogi Yves; Feiner Adam-Scott; Golay Philippe; Stiefel Friedrich; Bonsack Charles; Michaud Laurent

This dataset is related to "Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study" (Brovelli S., Dorogi Y., Feiner A.-S., Golay P., Stiefel F., Bonsack C. & Michaud L.)

Files

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Paper under revision

Request access...

Publication date:

April 11, 2017

DOI:

DOI [10.5281/zenodo.520555](https://doi.org/10.5281/zenodo.520555)

Keyword(s):

Suicide

Suicide attempt

Emergency unit

Phone contacts

Communities:

[Faculty of Biology and Medicine at University of Lausanne & Lausanne University Hospital](#)

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Cite as

Brovelli Sebastien, Dorogi Yves, Feiner Adam-Scott, Golay Philippe, Stiefel Friedrich, Bonsack Charles, & Michaud Laurent. (2017). Dataset Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.520555>

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Paper under revision

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Required. Please carefully check your email address. If the owner grants access, a secret link will be sent to this email address.

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- When the owner either grants/deny access you will receive a notification email. If you are granted access the notification email will contain a secret link that allows you to access the restricted access files.

Who grants/deny access?

The decision whether to grant/deny access is solely under the responsibility of the record owner. Hence, please note that Zenodo staff are not involved in this decision.

What is the response time?

The response time fully depends on the record owner.

Can the owner charge me for granting access?

No, the owner is not allowed to charge you for granting access to the record hosted on Zenodo. Please [notify us](#) if this happens.

Versioning

The screenshot shows the Zenodo interface. At the top, there is a blue header with the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. Below the header, a yellow banner states: 'There is a **newer version** of this record available.' The record details include the date 'December 23, 2016', 'Software' and 'Open Access' tags, and the title 'When do agents outperform centralized algorithms? - A systematic empirical evaluation in logistics - code' by Rinde R.S. van Lon. A description follows: 'Code for 'When do agents outperform centralized algorithms? - A systematic empirical evaluation in logistics'. Rinde R.S. van Lon and Tom Holvoet. Journal of Autonomous Agents and Multi-Agent Systems (2017).' Below this are buttons for 'Preview' and 'Files'. The 'Files' section contains a table with one entry:

Name	Size	Preview	Download
rinde/vanLon17-JAAMAS-code-v1.0.0.zip md5:b9183ccec20cdf587f13eb096f5e7102	57.5 kB		


Versions

Version 2	10.5281/zenodo.576389	May 17, 2017
Version 1	10.5281/zenodo.220892	May 17, 2017

Cite all versions? You can cite all versions by using the DOI [10.5281/zenodo.597629](https://doi.org/10.5281/zenodo.597629). This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

Funding / Horizon 2020


Funding

recommended 

Zenodo is integrated into reporting lines for research funded by the European Commission via [OpenAIRE](#). Specify grants which have funded your research, and we will let your funding agency know!

 Grants

Select a funder...

Start typing a grant number, name or abbreviation... 

Australian Research Council (AU)

Austrian Science Fund (AT)

European Commission (EU)

Fundação para a Ciência e a Tecnologia (PT)

Hrvatska Zaklada za Znanost (HR)

Ministarstvo Prosvete, Nauke i Tehnološkog Razvoja (RS)

Ministarstvo Znanosti, Obrazovanja i Sporta (HR)

National Health and Medical Research Council (AU)


National Science Foundation (US)

Nederlandse Organisatie voor


For funding acknowledgements, please use the **Additional Notes** field.

Your upload - you may experience a delay before it is available in OpenAIRE.


Related/alternate identifiers

recommended 


Contributors

optional 


References

optional 

Journal

optional 

Conference

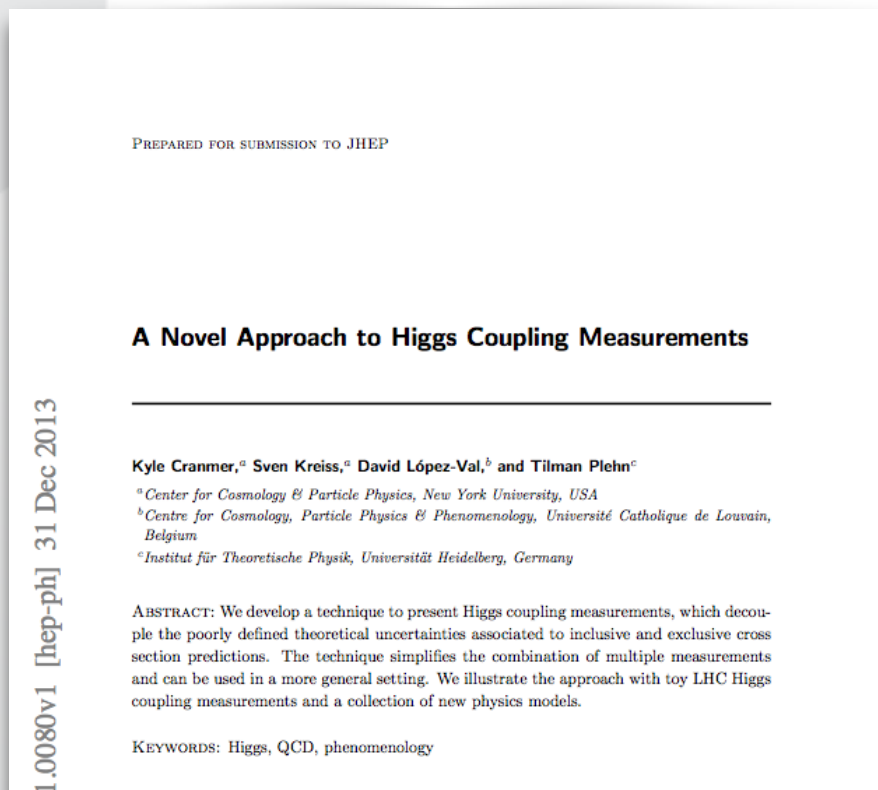
optional 

Horizon 2020

The screenshot shows the OpenAIRE interface for a dataset. The top navigation bar includes the OpenAIRE logo, a home icon, and links for PARTICIPATE (DEPOSIT, JOIN), SEARCH (PUBLICATIONS, DATA, PROJECTS), STATISTICS (OA, PROJECTS, TOPICS), SUPPORT (FAQ, HELPDESK, GUIDES), and OPEN ACCESS (IN EUROPE). Social media icons and links for NEWSLETTER, LOG IN, and REGISTER are also present. The dataset title is "Drosophila simulans template brains" by Ostrovsky, Aaron D.; Goetz, Lea; Jefferis, Gregory S. X. E. (2014). The description states: "Male and female symmetric averaged templates (11 and 10 brains, respectively) and intersex template brain for *Drosophila simulans*. Voxel size: (0.461, 0.461, 1) micron." A red circle highlights the "Funded by projects" section, which lists "OLFPERCEPT (211089)". Other sections include "Share - Bookmark", "Download from" (with a Zenodo link), and "Cite this dataset" (with a BibTeX option).

The screenshot shows the OpenAIRE interface for a publications search. The top navigation bar is similar to the dataset page. The main content area has tabs for "Publications", "Data", and "Statistics". A "view all 94" link is visible. The first search result is titled "Comparing copepod time-series in the north of Spain: Spatial autocorrelation of community composition" by Bode, Antonio; Alvarez-ossorio, Maria Teresa; Miranda, Ana; López-urrutia, Angel; Valdés, Luis (2012). The abstract states: "Four time-series of copepod species biomass in the north of Spain were contrasted to demonstrate spatial autocorrelation of local communities and their responses to short-term local and regional variability in oceanographic conditions. The series represented coastal and oceanic environments along a marked gradient of influence of seasonal upwelling from Galicia to the Mar Cantábrico (S Bay of Biscay), and each one included at least 10 years of continuous data collected at monthly frequency." The second search result is titled "An overview of APECOSM, a spatialized mass balanced 'Apex Predators ECOSystem Model' to study physiologically structured tuna population dynamics in their ecosystem" by Maury, Olivier (2010). The abstract states: "This paper gives an overview of the ecosystem model APECOSM (Apex Predators ECOSystem Model) which is developed in the framework of the GLOBEC-CLIOTOP Programme. APECOSM represents the flow of energy through the ecosystem with a size-resolved structure in both space and time. The

GitHub



[25] K. Cranmer, S. Kreiss, D. López-Val, T. Plehn,
<https://github.com/svenkreiss/decouple>.

This repository Search Pull requests Issues Gist

svenkreiss / decouple Watch 1 Star 2 Fork 3

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs

Decouple and recouple.

44 commits 4 branches 9 releases 1 contributor MIT

Branch: master New pull request Create new file Upload files Find file Clone or download

svenkreiss Add Attribution and License section. Latest commit 17acb0f on Mar 6, 2014

Decouple	Pull the 'scripts' out of the Decouple module and in separate 'script...	3 years ago
ModelGenerators	Pull the 'scripts' out of the Decouple module and in separate 'script...	3 years ago
Plot	Update to work with latest version of PyROOTUtils (mostly the new way...	3 years ago
output	Init public repo.	3 years ago
plots	Init public repo.	3 years ago
plotsForPaper	Finer scan of robustness. Larger font size for eta arrow plots.	3 years ago
scripts	Pull the 'scripts' out of the Decouple module and in separate 'script...	3 years ago
.gitignore	Remove local LHCXSHiggsCouplings submodule and replace with dependenc...	3 years ago
LICENSE	First version to work with pip.	3 years ago
Makefile	Pull the 'scripts' out of the Decouple module and in separate 'script...	3 years ago
README.md	Add Attribution and License section.	3 years ago
requirements.txt	New PyROOTUtils version with importlib dependency.	3 years ago
requirements_dev.txt	New PyROOTUtils version with importlib dependency.	3 years ago
setup.py	New PyROOTUtils version with importlib dependency.	3 years ago

GitHub + Research

Danger Zone

Make this repository private
Public forks can't be made private. Please [duplicate the repository](#) or [contact support](#). Make private

Transfer Ownership
Transfer this repo to another user or to an organization where you have admin rights. Transfer

Delete this repository
Once you delete a repository, there is no going back. Please be certain. Delete this repository

Once you delete a repository, there is no going back. Please be certain.
Delete this repository

GitHub + Zenodo

The screenshot shows the Zenodo user interface. At the top is a blue navigation bar with the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. A user profile dropdown shows 'lars.holm.nielsen@cern.ch'. Below the navigation bar is a breadcrumb trail: 'Home / Account / GitHub'. On the left is a 'Settings' sidebar with options: Profile, Change password, Linked accounts, Applications, Shared links, and GitHub (which is selected). The main content area is titled 'GitHub Repositories' and includes a '(updated now)' status and a 'Sync now ...' button. It features a 'Get started' section with three numbered steps: 1. Flip the switch (with an 'ON' toggle), 2. Create a release (with instructions to go to GitHub and create a release), and 3. Get the badge (with instructions on how a DOI badge will appear). Below this is an 'Enabled Repositories' section showing one repository: 'lnielsen/Kibet-F1000Research' with a DOI of '10.5072/zenodo.64201' and an 'ON' toggle.

zenodo Search Upload Communities lars.holm.nielsen@cern.ch

Home / Account / GitHub

Settings

- Profile
- Change password
- Linked accounts
- Applications
- Shared links
- GitHub**

GitHub Repositories (updated now) Sync now ...

Get started

- 1 Flip the switch**

Select the repository you want to preserve, and toggle the switch below to turn on automatic preservation of your software.

ON
- 2 Create a release**

Go to GitHub and [create a release](#). Zenodo will automatically download a .zip-ball of each new release and register a DOI.
- 3 Get the badge**


After your first release, a DOI badge that you can include in GitHub README will appear next to your repository below.

DOI 10.5281/zenodo.8475 (example)

Enabled Repositories

- lnielsen/Kibet-F1000Research** ON
DOI 10.5072/zenodo.64201


GitHub + Zenodo

 Inielsen/decouple

ON

DOI 10.5281/zenodo.582569

GitHub / Releases

 Create release ...

 v50 Inielsen/decouple: Test release

 Published

 DOI: 10.5281/zenodo.582569

8 months ago

 Test release

Payload

Metadata

JSON Export

Zenodo automatically extracts metadata about your repository from GitHub APIs. For example, the authors are determined from the repository's contributor statistics. The automatic extraction is **solely a best guess**. Add a `.zenodo.json` file the root of your repository to explicit define the metadata. The format of file is the same as for our REST API (use e.g. below JSON to get started).

```
{
  "description": "This repository contains the software implementation for our paper A Novel Approach to Higgs Coupling Measurements (Cranmer, Kreiss, Lopez-Val, Plehn), arXiv:1401.0080 [hep-ph]. It contains tools to apply the discussed methods to new models and contains a Makefile to recreate the plots in the paper. A demo for the recoupling stage where the effective likelihood and template par
```

CERN?

Zenodo is offered by CERN as part of its mission to make available the results of its work

Article II

Purposes

1. The Organization shall provide for collaboration among European States in nuclear research of a pure scientific and fundamental character, and in research essentially related thereto. The Organization shall have no concern with work for military requirements and the results of its experimental and theoretical work shall be published or otherwise made generally available.

Funded by



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Behind Zenodo



CERN Data Centre

- ~300PB disk
- ~200PB tape
- ~110k CPUs

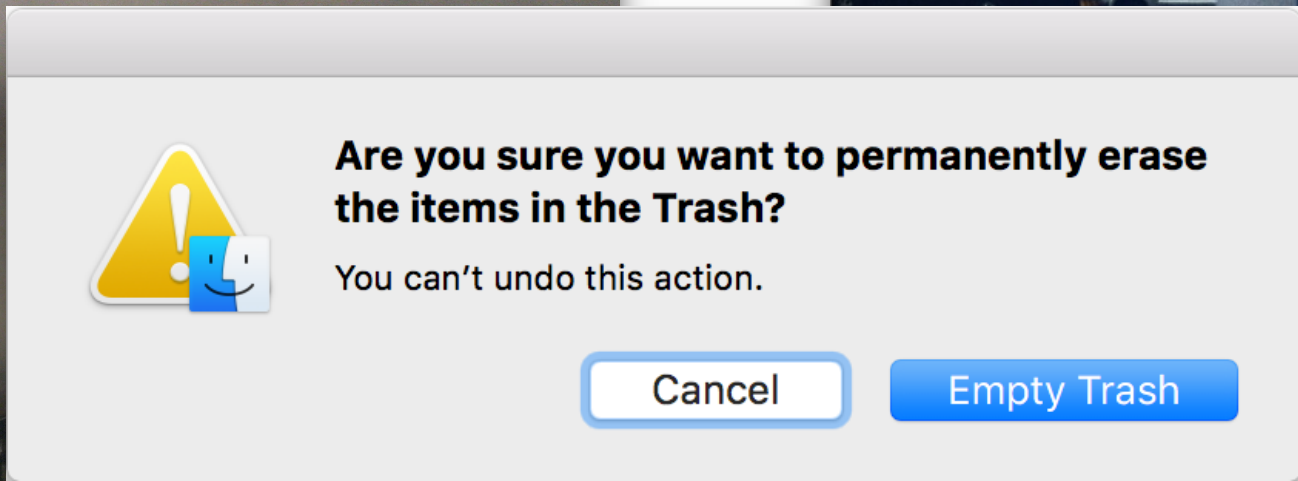
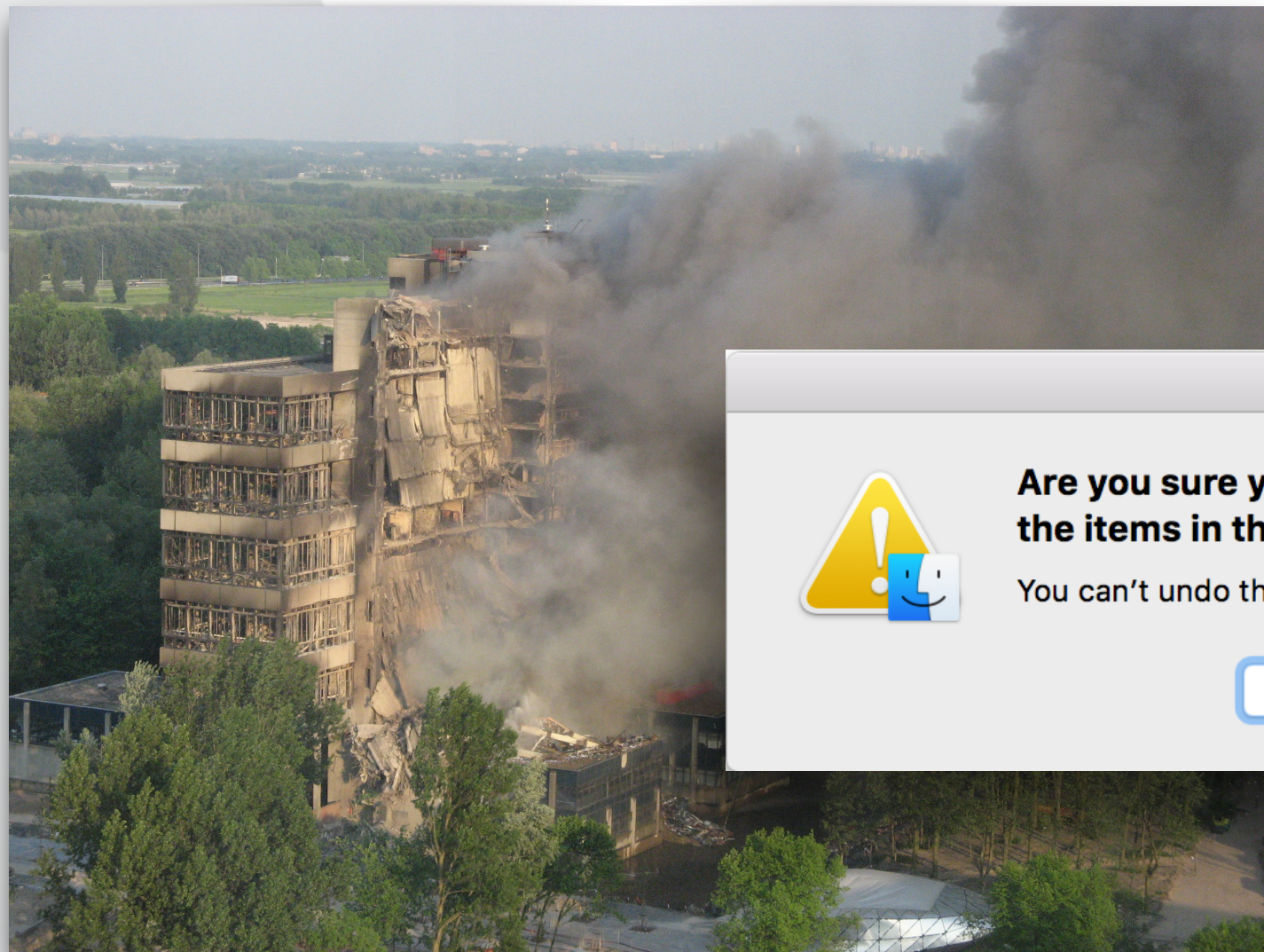
Services

- Digital repositories
- Data preservation for High-Energy Physics.

Zenodo: Open in every sense!

Built by Science.
For Science.

Don't do it yourself



Credit: (see earlier slides)



Start early

Ask for help

Include DOIs in citations

Thank you!

Start early

Ask for help

Include DOIs in citations

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DIY time

- Account:
 - Get an ORCID: <http://orcid.org>
 - Log in on Zenodo: <https://sandbox.zenodo.org>
- Upload:
 - Files: Format, Description.
 - Creators, Version, DOI
 - License: Choose standard license (never sign a Copyright Transfer Agreement)
 - Linking: Grants, Other resources

The background features a light blue gradient with stylized, semi-transparent grey silhouettes of human figures in the top-left and bottom-right corners. The figures are arranged in a way that suggests a group or community.

Start early

Jupyter Notebook

Initialize the API client and make a query

Using our just created helper classes we can now create a Zenodo API client:

```
In [2]: api = ZenodoClient()
```

Simple search

Using the API client we can now execute queries against Zenodo search API:

```
In [3]: result = api.search('North Carolina State University')
result.total
```

```
Out[3]: 105681
```

Phrase search

The query string is exactly like you would type in the Zenodo search box. The underlying search engine on Zenodo is Elasticsearch, which has a powerful query syntax. Above, we are searching for 4 terms, let's instead make it into a phrase search:

```
In [4]: result = api.search('"North Carolina State University"')
result.total
```

```
Out[4]: 1504
```

Field search

```
In [5]: ncsu_query = '+creators.affiliation:(\"NCSU\" \"NC State University\" \"North Carolina State University\") +doi:10.5281*'
result = api.search(ncsu_query)
result.total
```

```
Out[5]: 63
```

Notice the query string. Here is a couple of points:

Resources

<http://www.datacarpentry.org>

<https://software-carpentry.org>