

# Aula Prática – Zotero



# Zotero

- Zotero is a reference manager
- It integrates with Google Chrome to allow you to download references from digital libraries
- It integrates with your word processor (Word, Google Docs, etc) to allow you to manage the bibliography of your manuscript

# Create a User



- Create a user at Zotero's website
- This will provide you an account where all your references will be stored
- You will be able to sync your references in several devices once you log into the client



[Log In](#) · [Register](#)



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## Register

[Register for a free account](#) · [Log in to your account](#) · [Forgot your password?](#)

If you haven't already created a Zotero account, please take a few moments to register now. It's a **free** way to [sync and access your library from anywhere](#), and it lets you join [groups](#) and [back up all your attached files](#).

Username

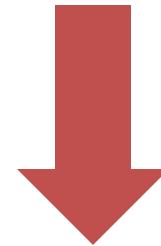
<https://www.zotero.org/<username>>

Email

Confirm Email

Password

# Login



Zotero

Groups

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[Log In](#)

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Your personal  
research assistant



[Download](#)



Available for Mac, Windows, Linux, and [iOS](#)

Just need to create a quick bibliography? Try [ZoteroBib](#).



# In your personal area...

- There are two important functionalities:
  - Web Library
  - Grupos



Web Library

Groups

Documentation

Forums

Get Involved

Vanessa Br...

Upgrade Storage



# Your personal research assistant



Zotero is a free, easy-to-use tool to help you collect, organize, annotate, cite, and share research.



Download



Available for Mac, Windows, Linux, and iOS

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# Web Library

Zotero

Q Title, Creator, Year



My Library		+	-pencil	-document	+ folder	- trash	upload	grid	list	...	grid
		Title	Creator	Date							
	teste	Algorithms for the Assignment and Transportation ...	Munkres	1957							
	My Publications	Dynamic graph exploration by interactively linked n...	Burch et al.	2021-09-07							
	Trash	Efficient Evaluation of Multiple Queries on Stream...	Huo et al.	2006-01-01							
	Group Libraries	Efficient Query Processing for Streamed XML Frag...	Huo et al.	2006-01-01							
>	dew	From Databases to Big Data	Madden	2012-05							
>	gems	Memory-Efficient Query Processing over XML Frag...	Lee et al.	2012-01-26							
>	GPBD	noWorkflow: A Tool for Collecting, Analyzing, and ...	Pimentel et al.	2017-08							
>	Metodologia	Storing and Querying Ordered XML Using a Relatio...	Tatarinov et al.	2002							
>	urban-data	Tracking and Analyzing the Evolution of Provenanc...	Pimentel et al.	2016-06-07							
		XML Data Partitioning Strategies to Improve Paralle...	Machdi et al.	2009							



Web Library

Groups

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Forums

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# Your personal research assistant



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Download

Available for Mac, Windows, Linux, and iOS

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[Upgrade Storage](#)

[Home](#) · [Web Library](#)

[Groups](#)

[Documentation](#)

[Forums](#)

[Get Involved](#)

[Search](#)

[Home](#) > [Groups](#)

## Zotero Groups

[Search for Groups](#) · [Create a New Group](#)

### dew

[Group Library](#)

[Manage Profile](#) · [Manage Members](#) · [Manage Library](#)

**Members** 14

**Description** Grupo de Dados Semi-Estruturados da UFF

**Group Type** Public, Closed Membership

**Group Library** Anyone can view, only members can edit

### gems

[Group Library](#)

**Members** 30

**Description** Base de referências do grupo de evolução e manutenção de software (GEMS) da Universidade Federal Fluminense (UFF)

# Groups

- Good way of sharing your references
- Ask your advisor if (s)he has a group already before creating one

# Client

- Zotero needs to be installed in your computer

# Download





## Zotero 7 for Mac

Your personal research assistant

[Download](#)[Installation Help](#)[Other versions](#)

## Zotero Connector

Save from your browser with a single click

[Install Chrome Connector](#)[Zotero Connectors for other browsers](#)

# Installation

- Install both the Zotero client and the Connector

# Now...

- Open Zotero Client
- Log into your account



Settings    Reset

## Data Syncing

Username: braganholo [Unlink Account...](#)

[Choose Libraries...](#)

Sync automatically

Sync full-text content

[About Syncing](#)

## File Syncing

Sync attachment files in My Library using [Zotero](#)

Download files [as needed](#)

Sync attachment files in group libraries using Zotero storage

Download files [at sync time](#)

By using Zotero storage, you agree to become bound by its [terms and conditions](#).

?

# Now let's use the Chrome conector

- Let's download some references...

# Search for the paper you want

- When looking at a paper in a digital library (ACM, IEEE Explore, etc), Zotero will recognize it and will be ready to download the reference for you



Inbox - vanessa.braganholo@ | Google Calendar - Week of Ju | noWorkflow: a tool for collect

dl.acm.org/doi/abs/10.14778/3137765.3137789

Bookmarks Gmail Docs Calendar eScience BD EDBT 2026 JCR Id UFF Portal de Periódicos

All Bookmarks

ACM DIGITAL LIBRARY Association for Computing Machinery

Browse About Sign in Register

Journals Magazines Proceedings Books SIGs Conferences People Search ACM Digital Library Advanced Search

Journal Home Just Accepted Latest Issue Archive Author List Affiliations Award Winners

Home > Collections > Hosted Content > Proceedings of the VLDB Endowment > Vol. 10, No. 12 > noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts

RESEARCH-ARTICLE



# noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts

Authors: João Felipe Pimentel, Leonardo Murta, Vanessa Braganholo, Juliana Freire [Authors Info & Claims](#)

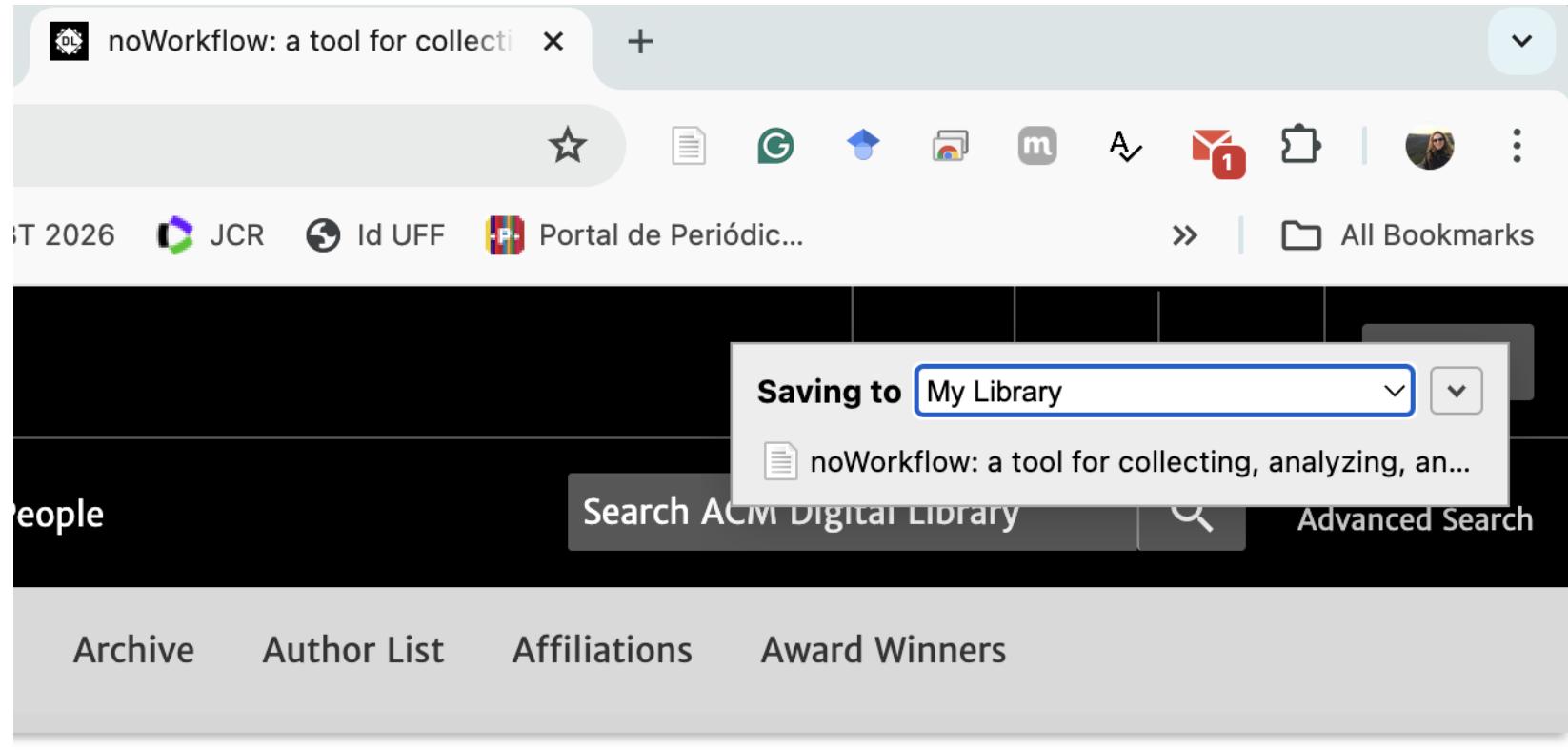
Proceedings of the VLDB Endowment, Volume 10, Issue 12 • pp 1841–1844

- <https://doi.org/10.14778/3137765.3137789>

Published: 01 August 2017 [Publication History](#)

PDF

Help



o, No. 12 > *noWorkflow: a tool for collecting, analyzing, and managing provenance from python*

My Library

Info Notes Related

**Item Type:** Journal Article  
**Title:** noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts  
**Creator:** Pimentel, João Felipe; Murta, Leonardo; Braganholo, Vanessa; Freire, Juliana  
**Abstract:** We present noWorkflow, an open-source tool that systematically and transparently collects provenance from Python scripts, including data about the script execution and how the script evolves over time. During the demo, we will show how noWorkflow collects and manages provenance, as well as how it supports the analysis of computational experiments. We will also encourage attendees to use noWorkflow for their own scripts.  
**Publication:** Proceedings of the VLDB Endowment  
**Volume:** 10  
**Issue:** 12  
**Pages:** 1841-1844  
**Date:** Agosto 1, 2017  
**Series:**  
**Series Title:**  
**Series Text:**  
**Journal Abbr:** Proc. VLDB Endow.  
**Language:**  
**DOI:** 10.14778/3137765.3137789  
**ISSN:** 2150-8097  
**Short Title:** noWorkflow  
**URL:** <https://doi.org/10.14778/3137765.3137789>  
**Accessed:** 6/11/2024, 9:39:27 AM  
**Archive:**  
**Loc. in Archive:**  
**Library Catalog:** ACM Digital Library  
**Call Number:**  
**Rights:**  
**Extra:**

Title	Creator
Algorithms for the Assignment and Transportation Problems	Munkres
Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations	Burch et al.
Efficient Evaluation of Multiple Queries on Streamed XML Fragments	Huo et al.
Efficient Query Processing for Streamed XML Fragments	Huo et al.
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Tracking and Analyzing the Evolution of Provenance from Scripts	Pimentel et al.
XML Data Partitioning Strategies to Improve Parallelism in Parallel Holistic Twig Joins	Machdi et al.

My Library

- teste
- My Publications
- Duplicate Items
- Unfiled Items
- Trash

Group Libraries

- dew
  - Complexity
  - Controle de Experimentos em ES
  - Data Mining
  - Deduplicação
  - Desambiguação
  - Digital Library
  - HDFS
  - Heurística
  - Informação
  - LCS
  - MaturidadeEmPesquisa
  - Método Indutivo
  - Metodologia Científica
  - Metrica em Software
  - MetricaNaCiencia
  - ModelosNaCiência
  - Navalha de Occam
  - PensamentoSistêmico
  - PlataformaLattes

Artificial Intelligence (incl. Robotics)

big data Business Information Systems

COMPUTER networks -- Scalability

data processing

Vanessa Braganholo

Now download a few more  
references...

# Let's add some formating styles



- Go to the Zotero Styles webpage
- Search for the style you need
- Click on it to install it

# Zotero Style Repository

Here you can find [Citation Style Language](#) 1.0.2 citation styles for use with [Zotero](#) and other CSL 1.0.2–compatible software. For more information on using CSL styles with Zotero, see the [Zotero wiki](#).

## Style Search

**Format:** [author-date](#) [numeric](#)

acm X

**Fields:** [communications](#) [engineering](#) [humanities](#) [science](#)

Show only unique styles

47 styles found:

- [ACM Computing Surveys](#) (2017-07-09 19:14:54)
- [ACM Journal on Emerging Technologies in Computing Systems](#) (2017-07-09 19:14:54)
- [ACM SIG Proceedings \("et al." for 15+ authors\)](#) (2023-07-13 21:22:54)
- [ACM SIG Proceedings \("et al." for 3+ authors\)](#) (2023-07-13 21:22:38)
- [ACM SIGCHI Proceedings - Extended Abstract Format](#) (2017-01-15 15:53:01)
- [ACM SIGCHI Proceedings \(2016\)](#) (2016-10-30 03:15:40)
- [ACM SIGGRAPH](#) (2014-09-06 22:02:33)
- [ACM Transactions on Accessible Computing](#) (2017-07-09 19:14:54)
- [ACM Transactions on Algorithms](#) (2017-07-09 19:14:54)
- [ACM Transactions on Applied Perception](#) (2017-07-09 19:14:54)
- [ACM Transactions on Architecture and Code Optimization](#) (2017-07-09 19:14:54)
- [ACM Transactions on Asian Language Information Processing](#) (2017-07-09 19:14:54)
- [ACM Transactions on Autonomous and Adaptive Systems](#) (2017-07-09 19:14:54)

Show only unique styles

26 styles fo

## Citations

(HISAKATA; NISHIDA; JOHNSTON, 2016; HOGUE, 2001; MUSK, 2006; SAMBROOK; RUSSELL, 2001)

## Bibliography

HISAKATA, R.; NISHIDA, S.; JOHNSTON, A. An adaptable metric shapes perceptual space. *Current Biology*, v. 26, n. 14, p. 1911–1915, 25 jul. 2016. Disponível em: <[http://www.cell.com/current-biology/abstract/S0960-9822\(16\)30544-9](http://www.cell.com/current-biology/abstract/S0960-9822(16)30544-9)>. Acesso em: 3 out. 2016.

HOGUE, C. W. V. Structure databases. In: BAXEVANIS, A. D.; OUELLETTE, B. F. F. (Org.).. *Bioinformatics*. Life Sciences Series. 2. ed. New York, NY: Wiley-Interscience, 2001. p. 83–109.

MUSK, E. *The secret Tesla Motors master plan (just between you and me)*. Disponível em: <<https://www.tesla.com/blog/secret-tesla-motors-master-plan-just-between-you-and-me>>. Acesso em: 29 set. 2016.

SAMBROOK, J.; RUSSELL, D. W. *Molecular cloning: a laboratory manual*. 3. ed. Cold Spring Harbor, NY: CSHL Press, 2001.

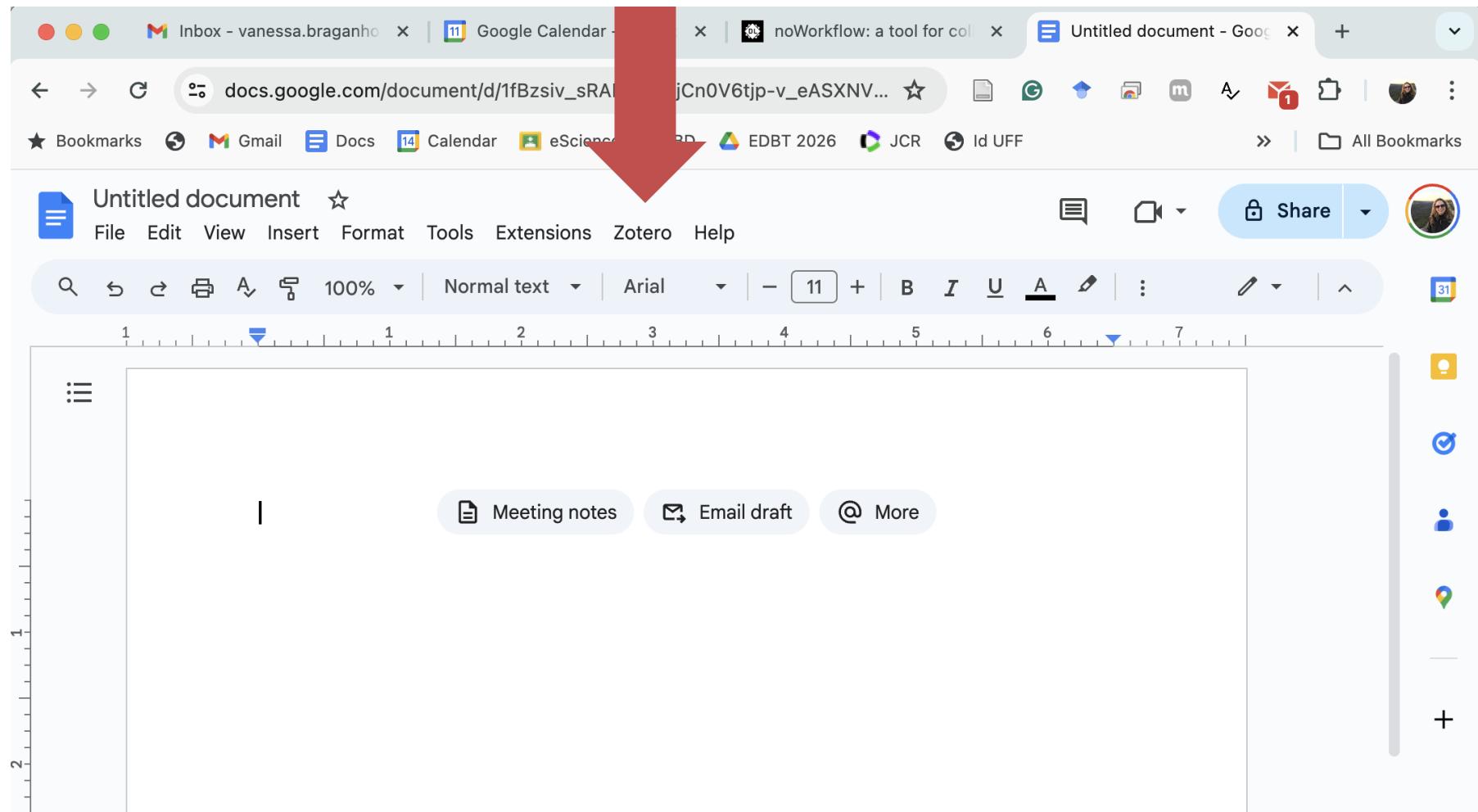
[Universidade Federal de Minas Gerais - Faculdade de Ciências Econômicas - ABNT \(autoria abreviada\) \(Português - Brasil\)](#) (2021-02-15 03:41:57) [Link](#) [Source](#)

[Universidade Federal de Minas Gerais - Faculdade de Ciências Econômicas - ABNT \(autoria completa\) \(Português - Brasil\)](#) (2021-02-15 03:41:57)

It is now time to start writing and  
citing!

- Open your Word Processor app

# I'm gonna use Google Docs



The screenshot shows the Aula Zotero application window. At the top left is the title bar "Aula Zotero". Below it is a toolbar with icons for File, Edit, View, Insert, Format, Tools, and Extensions. The main area contains a section titled "1. Introduction" with the text "I'm going to cite a paper now...". At the top right is a floating context menu with the following items: "Add/edit citation...", "Add note...", "Add/edit bibliography", "Document preferences...", "Refresh", "Switch word processors...", and "Unlink citations...". A red arrow points from the left towards the "Add/edit citation..." option. The status bar at the bottom shows "Vanessa Braganholo".

Aula Zotero

File Edit View Insert Format Tools Extensions

Normal text

1 1 2

1. Introduction

I'm going to cite a paper now...

Zotero Help

Add/edit citation... (arrow pointing here)

Add note...

Add/edit bibliography

Document preferences...

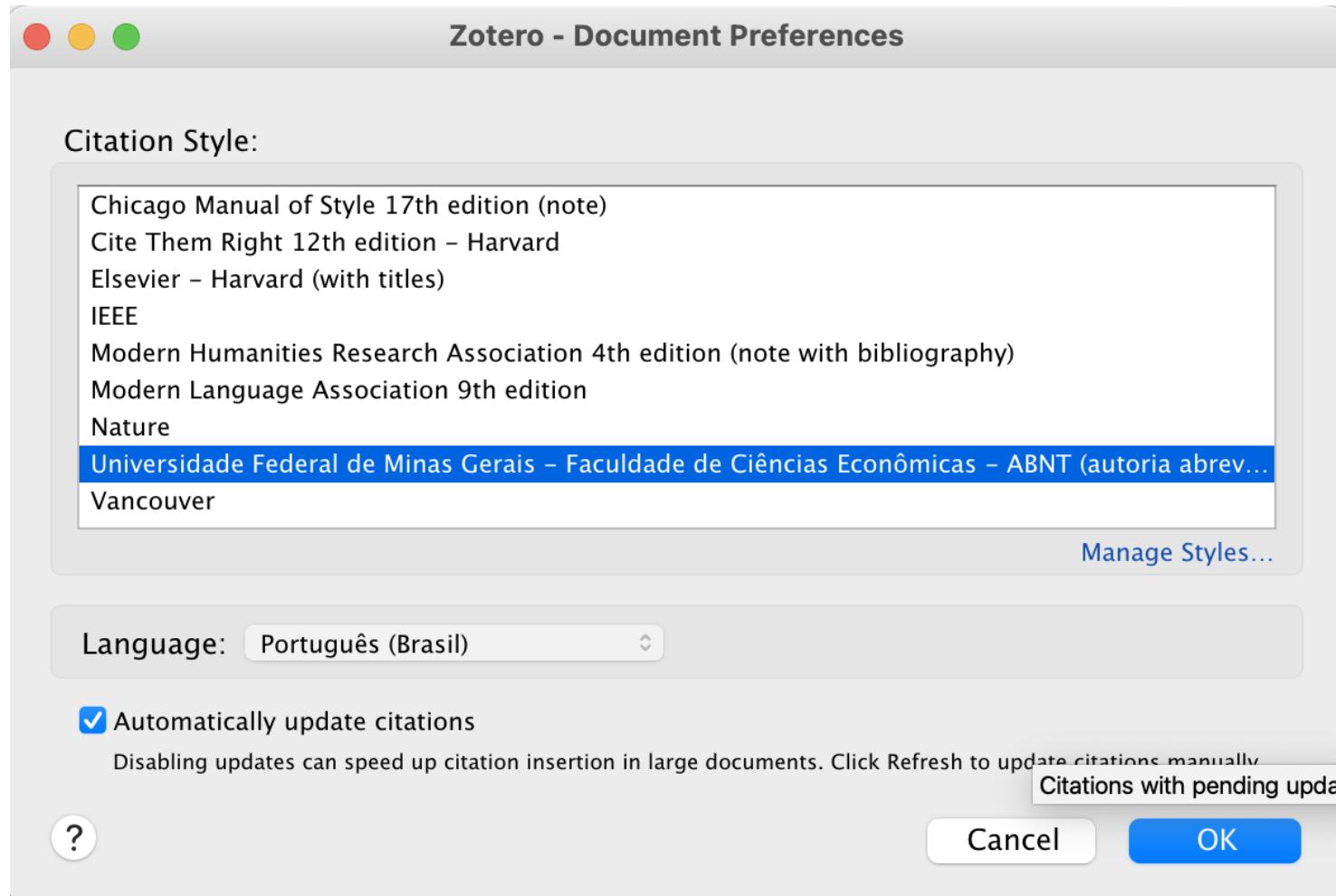
Refresh

Switch word processors...

Unlink citations...

Vanessa Braganholo

# Choose a Formatting Style



# Type the title or author you want to cite

The screenshot shows the Zotero library interface. On the left, there's a sidebar with 'My Library' expanded, showing categories like 'teste', 'My Publications', 'Duplicate Items', 'Unfiled Items', and 'Trash'. Below that is a 'Group Libraries' section with a group named 'dew' containing sub-folders such as 'Complexity', 'Controle de Experimentos em ES', 'Data Mining', 'Deduplication', 'Desambiguation', 'Digital Library', 'HDFS', 'Heurística', 'Informação', 'LCS', and 'MaturidadeEmPesquisa'. The main window displays a search results table with columns for 'Title' and 'Creator'. The results include:

Title	Creator
Algorithms for the Assignment and Transportation Problems	Munkres
Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations	Burch et al.
Efficient Evaluation of Multiple Queries on Streamed XML Fragments	Huo et al.
Efficient Query Processing for Streamed XML Fragments	Huo et al.
From Databases to Big Data	Madden
Memory-Efficient Query Processing over XML Fragment Stream with Fragment Labeling	Lee et al.
noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts	Pimentel et al.
Storing and Querying Ordered XML Using a Relational Database System	Tatarinov et al.
Tracking and Analyzing the Evolution of Provenance from Scripts	Pimentel et al.
XML Data Partitioning Strategies to Improve Parallelism in Parallel Holistic Twig Joins	Machdi et al.

A red search bar at the bottom contains the letter 'Z'.

My Library

All Fields & Tags

Title		Creator
	Algorithms for the Assignment and Transportation Problems	Munkres
	Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations	Burch et al.
	Efficient Evaluation of Multiple Queries on Streamed XML Fragments	Huo et al.
	Efficient Query Processing for Streamed XML Fragments	Huo et al.
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	XML Data Partitioning Strategies to Improve Parallelism in Parallel Holistic Twig Joins	Machdi et al.

Group Libraries

dew

- Complexity
- Controle de Experimentos em ES
- Data Mining
- Deduplicação
- Desambiguação
- Digital Library
- HDFS
- Heurística
- Informação
- LCS
- MaturidadeEmPesquisa
- Método Indutivo
- Metodologia Científica
- Metrica em Software
- MetricaNaCiencia
- ModelosNaCiência
- Navalha de Occam
- PensamentoSistêmico
- PlataformaLattes

Artificial Intelligence (incl. Robotics)

big data Business Information Systems

COMPUTER networks -- Scalability

data processing

nowor

My Library

**noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts**  
Pimentel et al. (2017), *Proceedings of the VLDB Endowment*, 10(12), 1841-1844.

gems

**noWorkflow: Capturing and Analyzing Provenance of Scripts**  
Murta et al. (2014), *International Provenance and Annotation Workshop (IPAW)*, Springer Cham: Cologne, Germany, 71-83.

**Yin & Yang: demonstrating complementary provenance from noWorkflow & YesWorkflow**  
Pimentel et al. (2016), *International Provenance and Annotation Workshop (IPAW)*, Springer International Publishing: McLean, USA, 161-165.

**Collecting and Analyzing Provenance on Interactive Notebooks: When IPython Meets noWorkflow**  
Pimentel et al. (2015), *Workshop on the Theory and Practice of Provenance (TaPP)*, USENIX: Edinburgh Scotland.

**noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts**  
Pimentel et al. (2017), *Proceedings of the VLDB Endowment*, 10(12), 1841-1844.

dew

**noWorkflow: Capturing and Analyzing Provenance of Scripts**  
Murta et al. (2014), *5th International Provenance and Annotation Workshop*, 1-12.

GPBD

**noWorkflow: Capturing and Analyzing Provenance of Scripts**  
Murta et al. (2014), *International Workshop on Provenance Annotation (IPAW)*, 1-12.

	noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts	Pimentel et al.
	Storing and Querying Ordered XML Using a Relational Database System	Tatarinov et al.
	Tracking and Analyzing the Evolution of Provenance from Scripts	Pimentel et al.
	XML Data Partitioning Strategies to Improve Parallelism in Parallel Holistic Twig Joins	Machdi et al.



Pimentel et al., 2017

Press ENTER once you are done

▼ Au  
▼ Au  
Abst

Publica  
Vol  
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Se  
Series  
Series



100% Normal text Arial - +

1 1 2 3 4 5



## 1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017)

# Now let's insert more than one...

ES

noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts	Pimentel et al.
Storing and Querying Ordered XML Using a Relational Database System	Tatarinov et al.
Tracking and Analyzing the Evolution of Provenance from Scripts	Pimentel et al.
XML Data Partitioning Strategies to Improve Parallelism in Parallel Holistic Twig Joins	Machdi et al.

Burch et al., 2021 Tatarinov et al., 2002

▼ Author B  
▼ Author F  
Abstract W  
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Publication P  
Volume 1  
Issue 1  
Pages 1  
Date A  
Content

# 1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017). Now let's insert more than one citation (BURCH *et al.*, 2021; TATARINOV *et al.*, 2002)|

# Now let's add the bibliography

The screenshot shows the Aula Zotero interface. At the top, there is a toolbar with icons for file operations like saving and sharing, followed by a menu bar with 'File', 'Edit', 'View', 'Insert', 'Format', 'Tools', and 'Extensions'. Below the menu bar is a toolbar with icons for search, navigation, and document settings. The main area contains a title '1. Introduction' and a text block about citing papers. A red arrow points to the 'Add/edit bibliography' option in the 'Zotero' dropdown menu.

Aula Zotero

File Edit View Insert Format Tools Extensions

Zotero Help

Add/edit citation... Ctrl+⌘C

Add note...

**Add/edit bibliography**

Document preferences...

Refresh

Switch word processors...

Unlink citations...

1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017). Now let's insert more than one citation (BURCH *et al.*, 2021; TATARINOV *et al.*, 2002)|

# 1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017). Now let's insert more than one citation (BURCH *et al.*, 2021; TATARINOV *et al.*, 2002)

|

## References

BURCH, M. *et al.* Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations. *Visual Computing for Industry, Biomedicine, and Art*, v. 4, n. 1, p. 23, 7 set. 2021.

PIMENTEL, J. F. *et al.* noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts. *Proceedings of the VLDB Endowment*, v. 10, n. 12, p. 1841–1844, Agosto 2017.

TATARINOV, I. *et al.* Storing and Querying Ordered XML Using a Relational Database System. SIGMOD '02, 2002, New York, NY, USA. *Anais...* New York, NY, USA: ACM, 2002. p. 204–215. Disponível em: <<http://doi.acm.org/10.1145/564691.564715>>. Acesso em: 13 dez. 2013.

# Cite Year Only

The screenshot shows a citation tool interface with a red header bar. In the top left of the header bar is a small red 'Z' icon with a dropdown arrow. To its right, the text 'Pimentel et al., 2017' is displayed in a blue rounded rectangle. Below the header is a white modal window containing citation details and input fields.

**noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts**  
Pimentel et al. (2017), *Proceedings of the VLDB Endowment*

Page:

Prefix:

Suffix:

Omit Author

**Open in My Library**

# 1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017). Now let's insert more than one citation (BURCH *et al.*, 2021; TATARINOV *et al.*, 2002).

Now, I want the author's name outside the parenthesis since it will be part of a sentence. (2017)



# Edit the text to insert author's name

## 1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017). Now let's insert more than one citation (BURCH *et al.*, 2021; TATARINOV *et al.*, 2002).

Now, I want the author's name outside the parenthesis since it will be part of a sentence.  
Pimentel et al., (2017)...|

## References

BURCH, M. *et al.* Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations. *Visual Computing for Industry, Biomedicine, and Art*, v. 4, n. 1, p. 23, 7 set. 2021.

PIMENTEL, J. F. *et al.* noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts. *Proceedings of the VLDB Endowment*, v. 10, n. 12, p. 1841–1844, Agosto 2017.

TATARINOV, I. *et al.* Storing and Querying Ordered XML Using a Relational Database System. SIGMOD '02, 2002, New York, NY, USA. *Anais...* New York, NY, USA: ACM, 2002. p. 204–215. Disponível em: <<http://doi.acm.org/10.1145/564691.564715>>. Acesso em: 13 dez. 2013.

# Fixing Problems

- When you notice a problem in your reference, edit it directly in Zotero's Client

# 1. Introduction

I'm going to cite a paper now... (PIMENTEL *et al.*, 2017). Now let's insert more than one citation (BURCH *et al.*, 2021; TATARINOV *et al.*, 2002).

Now, I want the author's name outside the parenthesis since it will be part of a sentence.  
Pimentel et al., (2017)...|

## References

BURCH, M. *et al.* Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations. *Visual Computing for Industry, Biomedicine, and Art*, v. 4, n. 1, p. 23, 7 set. 2021.

PIMENTEL, J. F. *et al.* noWorkflow: a tool for collecting, analyzing, and managing provenance from python scripts. In: *Proceedings of the VLDB Endowment*, v. 10, n. 12, p. 1841–1844, Agosto 2017.

TATARINOV, I. *et al.* Storing and Querying Ordered XML Using a Relational Database System. SIGMOD '02, 2002, New York, NY, USA. *Anais...* New York, NY, USA: ACM, 2002. p. 204–215. Disponível em: <<http://doi.acm.org/10.1145/564691.564715>>. Acesso em: 13 dez. 2013.

# References

- BURCH, M. et al. Dynamic graph exploration by interactively linked node-link diagrams and matrix visualizations. *Visual Computing for Industry, Biomedicine, and Art*, v. 4, n. 1, p. 23, 7 set. 2021.]
- PIMENTEL, J. F. et al. noWorkflow: a tool for collecting, analyzing, and managing provenance from Python scripts. *Proceedings of the VLDB Endowment*, v. 10, n. 12, p. 1841–1844, Agosto 2017.
- TATARINOV, I. et al. Storing and Querying Ordered XML Using a Relational Database System. SIGMOD '02, 2002, New York, NY, USA. Anais... New York, NY, USA: ACM, 2002. p. 204–215. Disponível em: <<http://doi.acm.org/10.1145/564691.564715>>. Acesso em: 13 dez. 2013.

# Groups

- When you are part of a group, make sure you
  - Save new references to the group instead of to your personal library
  - Cite references from the group

# Exercise

- Write the introduction of your final project's paper and insert the references as appropriate

# Aula Prática – Zotero

