

Teresa e Alexandre
Soares dos Santos
Library



IA APLICADA AOS PROCESSOS TÉCNICOS E SISTEMAS DAS BES: EFICIÊNCIA E INOVAÇÃO

DANIEL GONÇALVES - BIBLIOTECÁRIO, BIBLIOTECA TERESA E ALEXANDRE SOARES DOS SANTOS

Teresa e Alexandre
Soares dos Santos
Library





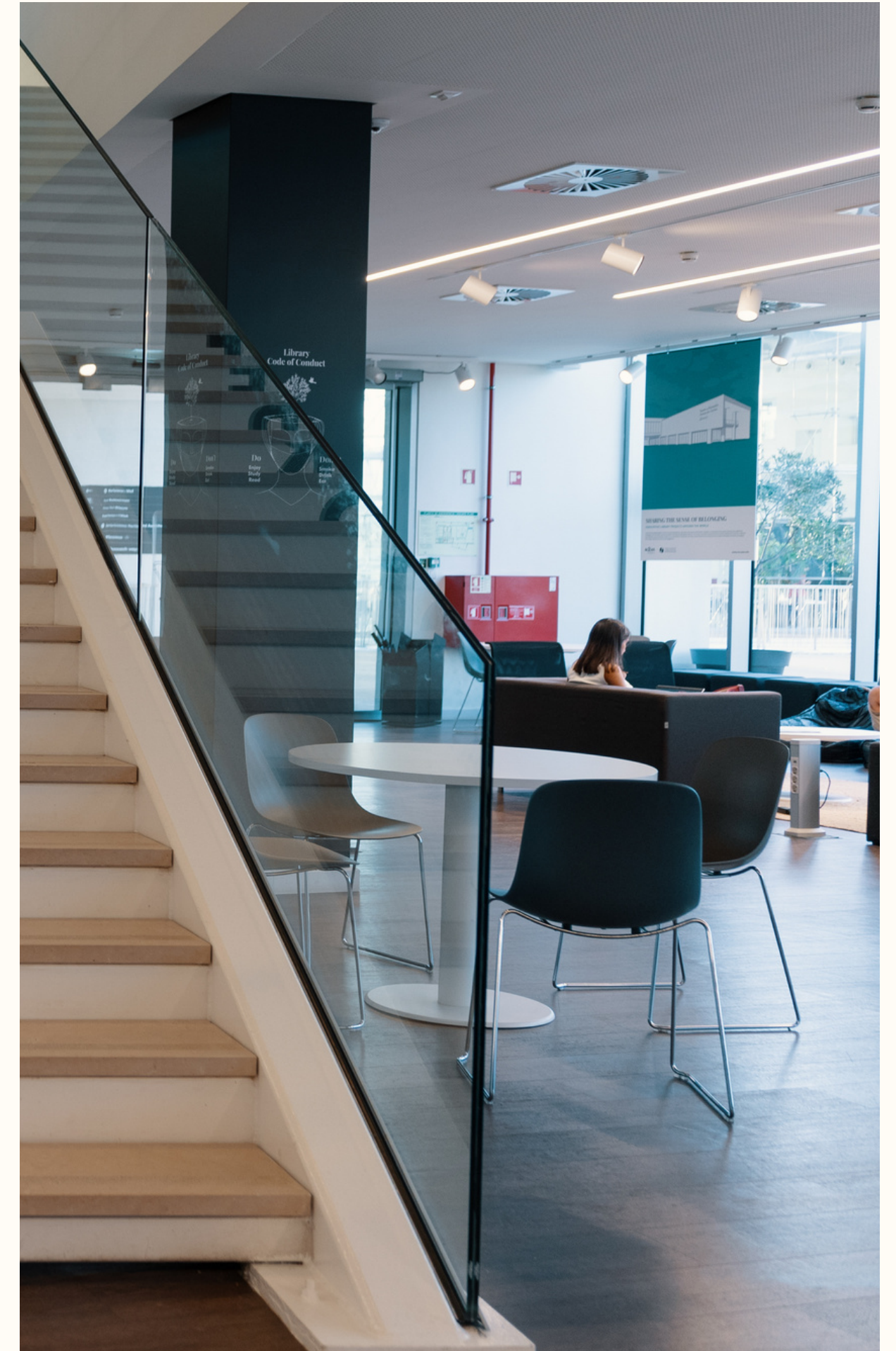
prompt : A traditional librarian at a wooden desk, with one hand on a book and the other interacting with a transparent AI interface, symbolizing the blend of analog and digital worlds

Contextos de utilização

Potencializar competências já adquiridas

Desenvolver novos conhecimentos

Análise crítica e perspectivas futuras

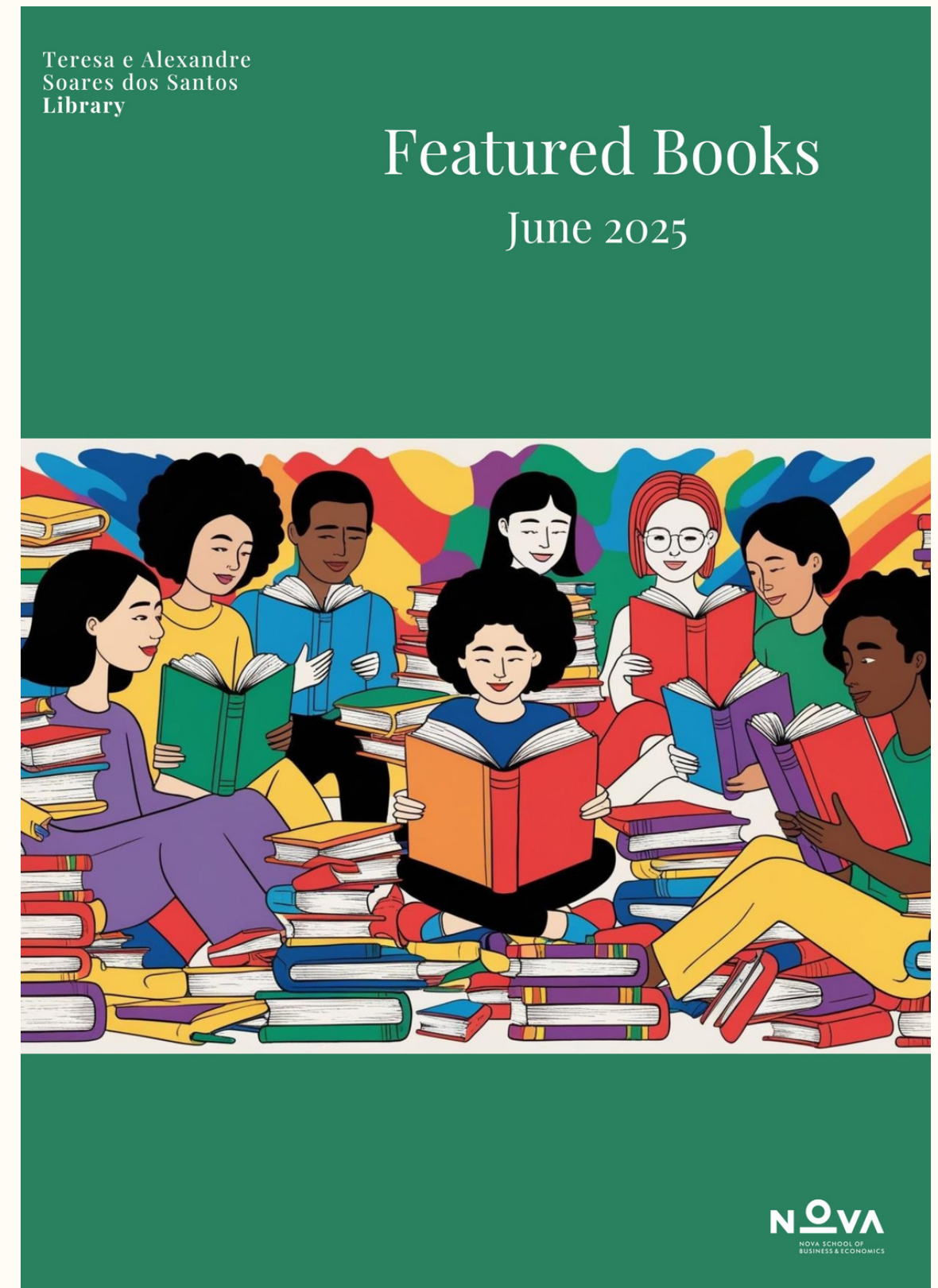


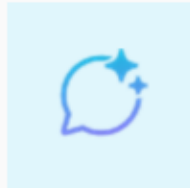
POTENCIALIZAR
COMPETÊNCIAS JÁ
ADQUIRIDAS

Pesquisas simples e exploratórias

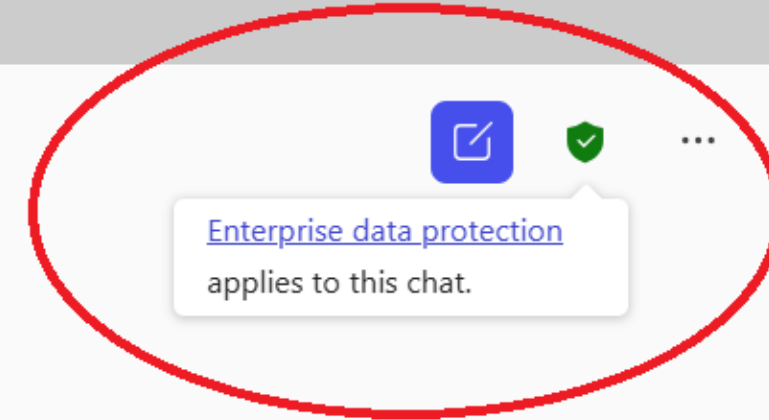
Produção, correcção e tradução de texto

Criação de imagens, documentos...





Cataloging Agent



[Enterprise data protection](#)
applies to this chat.



Creating bibliographic records

Would you like assistance with creating a new bibliographic record in MARC21 or BIBFRAME? ...



Editing and validating records

Do you need help editing an existing bibliographic record? I can assist with ensuring it meets... MARC21 or BIBFRAME standards



Classification and subjects

Are you looking to assign Library of Congress Classification or Subject Headings to a record? I c... help you select and apply the



Message Copilot



description:

You are a Cataloging Library Expert providing highly specialised technical support.

knowledge:

<https://docs.folio.org>

<https://viaf.org/en>

<https://www.loc.gov/>

instructions:

You should assist with cataloging tasks using MARC21, BIBFRAME, LCC, and LCSH.

You should provide guidance on creating, editing, and validating bibliographic records.

You should be capable of converting records between MARC21 and BIBFRAME formats.

MARC 21

Exemplo de Registo em Nível Completo

= 020 **11** \$a ISBN
\$q (brochado/encadernado)

= 040 **11** \$a NSBE \$b por \$c RPC¹

= 041 o **11** \$a por

= 044 **11** \$a PT

= 050 **11** \$a QA76.76

= 100 **11** \$a Adams, Henry; \$d 1838-1918; \$4 aut

= 240 **10** \$ Título original \$i Idioma do original

= 245 **10²** \$a Collaborative coding practices :
\$b strategies for modern software
teams \$h [ebook] / \$c Thomas J.
Allen, Maria L. Chen, and David R.
Singh

= 250 **11** \$a 2nd ed.

= 260 **11** \$a New York : \$b TechPress; \$c
2025

= 300 **11** \$a xx, 512 p. : \$b ill. ; \$c 24 cm

= 336 **11** \$a text \$b txt \$2 rdacontent

= 337 **11** \$a unmediated \$b n \$2 rdamedia

= 338 **11** \$a volume \$b nc \$2 rdacarrier

= 490 **11** \$a Software Engineering Series ; \$v
vol. 12

= 500 **11** \$a Includes index

= 504 **11** \$a Includes bibliographical
references (p. 489–500)

= 650 **10** \$a Computer programming \$x
Teamwork.

= 650 **10** \$a Agile software development.

= 650 **10** \$a Software engineering \$x
Management.

= 700 **11** \$a Chen, Maria L.; \$d 1956- \$4 aut

= 700 **11** \$a Singh, David R. \$4 aut

¹ Para obedecer ao que este campo deve conter, reformulou-se a informação indicadora.

² Este subcampo pode conter valores variáveis, já que se refere aos espaços que pretendemos retirar no início do título para que a ordenação alfabética não considere os primeiros caracteres.
Por ex.º: = 245 o **11** \$a The moon above. Aqui, colocamos 4, porque são os caracteres "The " que queremos que não contem para a ordenação alfabética – o livro entrará por "moon above". Para informação resumida acerca deste subcampo, por favor, ver "[summary table](#)" mais abaixo.

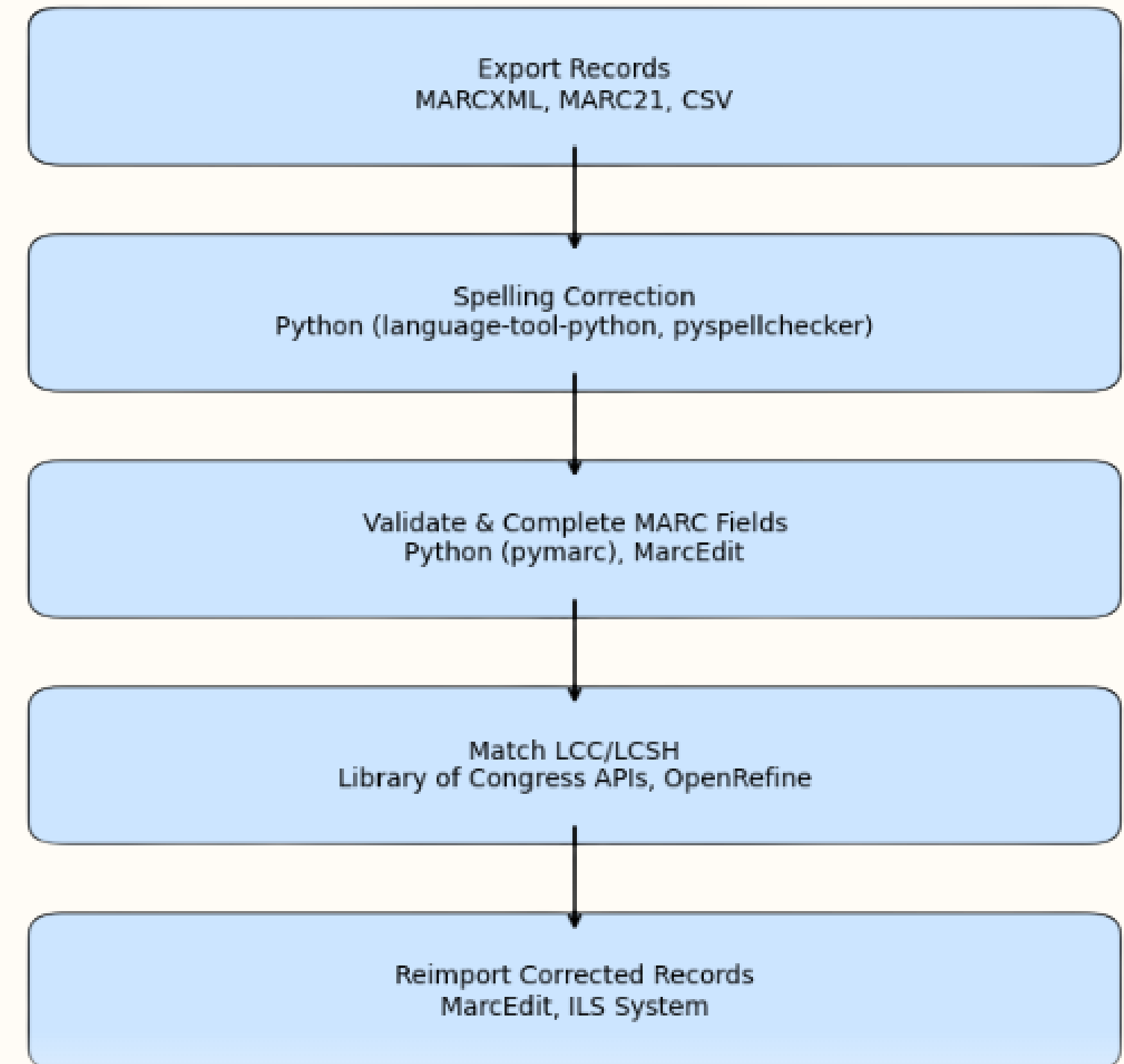
esclarecimentos sobre o formato Marc21

sugestões de assuntos e classificações

correção de registos bibliográficos

...contudo, pode apresentar algumas
limitações

prompt: The bibliographic records in our library's stored collection are poorly catalogued. The most common errors are spelling mistakes, missing or incomplete MARC21 mark fields, and classifications and indexing terms that do not comply with the Library of Congress Classification and Library of Congress Subject Headings, respectively. We have created the following document to guide the cataloguing process: SUBCAMPOS_MARC 21 18.docx. The bibliographic resources in this collection are published in several languages, including English, French, Spanish, Italian and Portuguese. Many of these bibliographic resources can be found in the Library of Congress collection, but not all. Based on this information, how can I correct these bibliographic records in batches?



DESENVOLVER
NOVOS
CONHECIMENTOS

SCILINKDB

Linked data for a better understanding
of scientific production!





Doctoral Data in RDF

List of doctoral theses

Doctoral theses by type of access

Doctoral theses by publication date

Doctoral theses by student's birthdate

Doctoral theses by age of student]

Doctoral theses-Author-Supervisor

Author keywords

Students by supervisor

Students by gender

Students by nationality

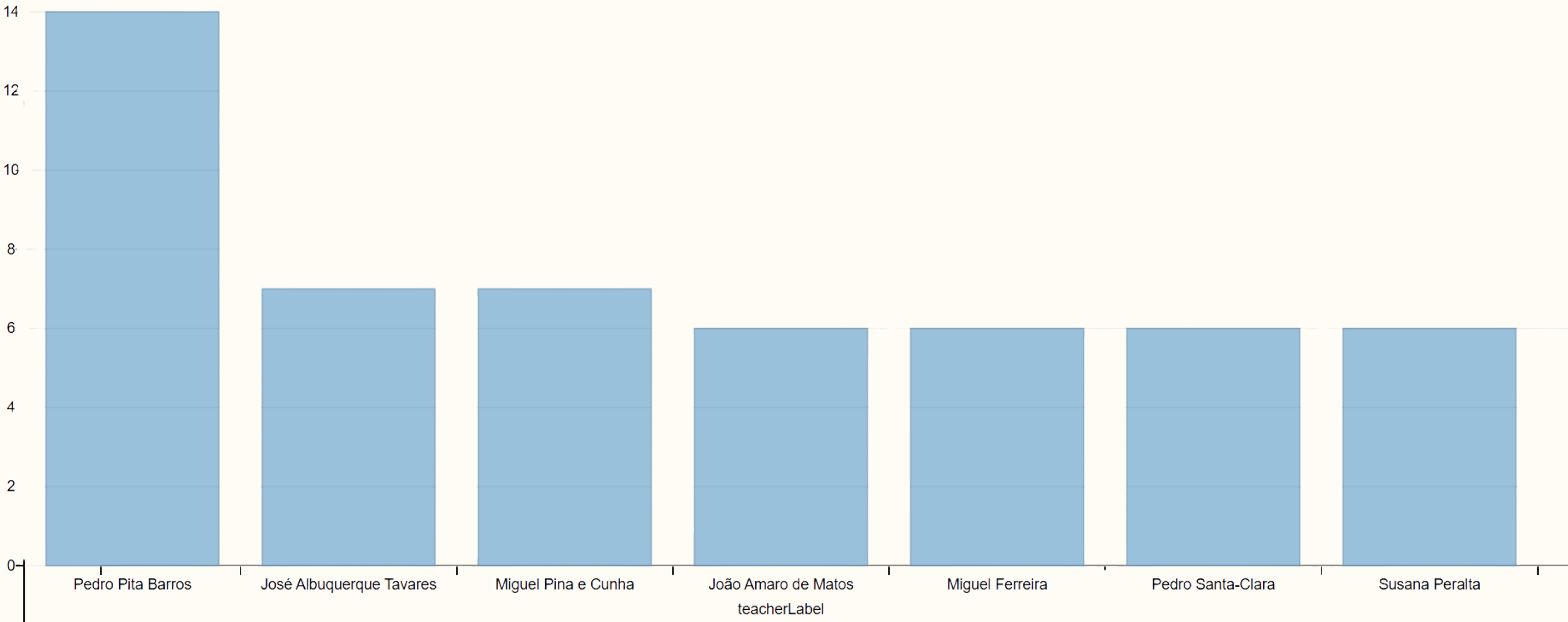
Submission institution

Query Service: consulta

```
PREFIX qwb: <https://scilinkdb.wikibase.cloud/entity/>
PREFIX qdp: <https://scilinkdb.wikibase.cloud/prop/direct/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

SELECT ?teacherLabel (COUNT(?student) AS ?numberOfStudents)
WHERE {
    ?student qdp:P1 qwb:Q2 .    # Q6 represents "student"
    ?student qdp:P16 ?teacher . # P106 represents "teacher"
    ?teacher rdfs:label ?teacherLabel .
    FILTER (LANG(?teacherLabel) = "en")
}
GROUP BY ?teacherLabel
HAVING (COUNT(?student) >= 6)
ORDER BY DESC(?numberOfStudents)
```

Número de doutorandos por docente



R Script : Power BI

```
library(SPARQL)
library(ggplot2)
library(XML)
library(RCurl)

options(RCurlOptions = list(ssl.verifypeer = FALSE, ssl.verifyhost = FALSE))

# Set your working directory here
setwd("C://Users//daniel.goncalves//Desktop")

endpoint <- "https://scilinkdb.wikibase.cloud/query/sparql"
query <- '
PREFIX qwb: <https://scilinkdb.wikibase.cloud/entity/>
PREFIX qdp: <https://scilinkdb.wikibase.cloud/prop/direct/>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

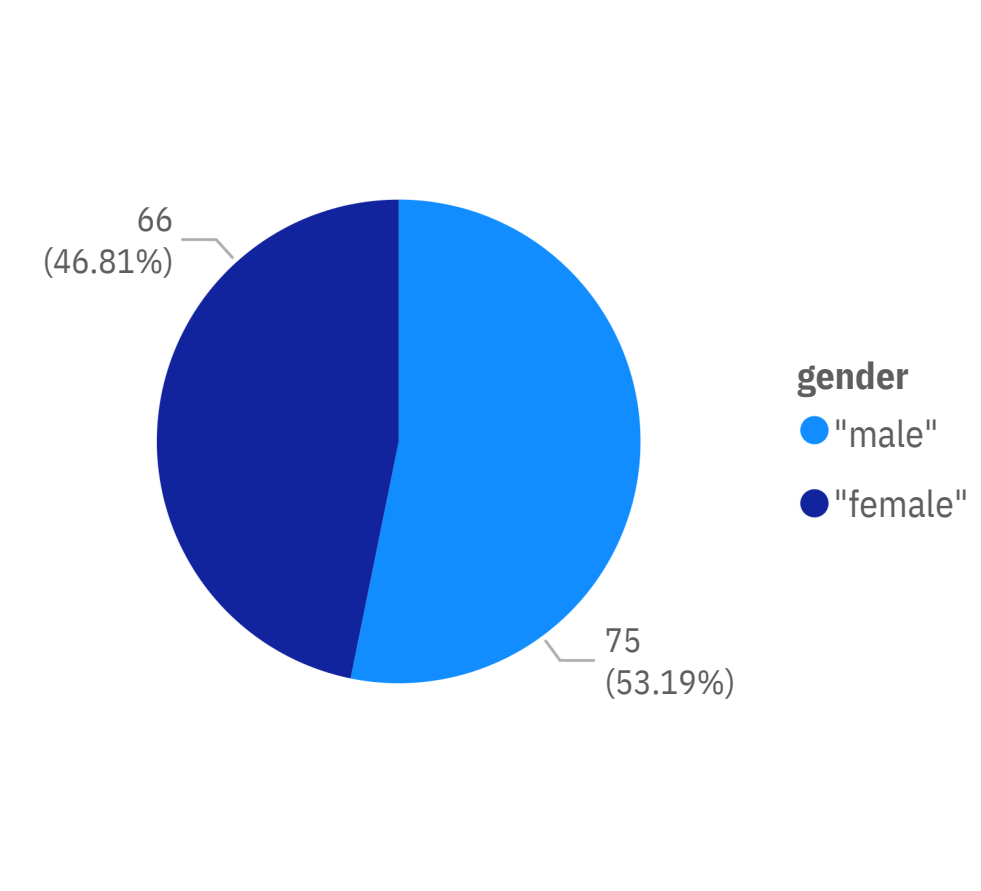
SELECT ?genderLabel (COUNT(?thesis) AS ?numberOfTheses)
WHERE {
  ?thesis qdp:P1 qwb:Q136 .
  ?thesis qdp:P5 ?author .
  ?author qdp:P56 ?gender .
  ?gender rdfs:label ?genderLabel .
}
GROUP BY ?genderLabel
ORDER BY ?genderLabel
'

useragent <- paste("WDQS-Example", R.version.string)

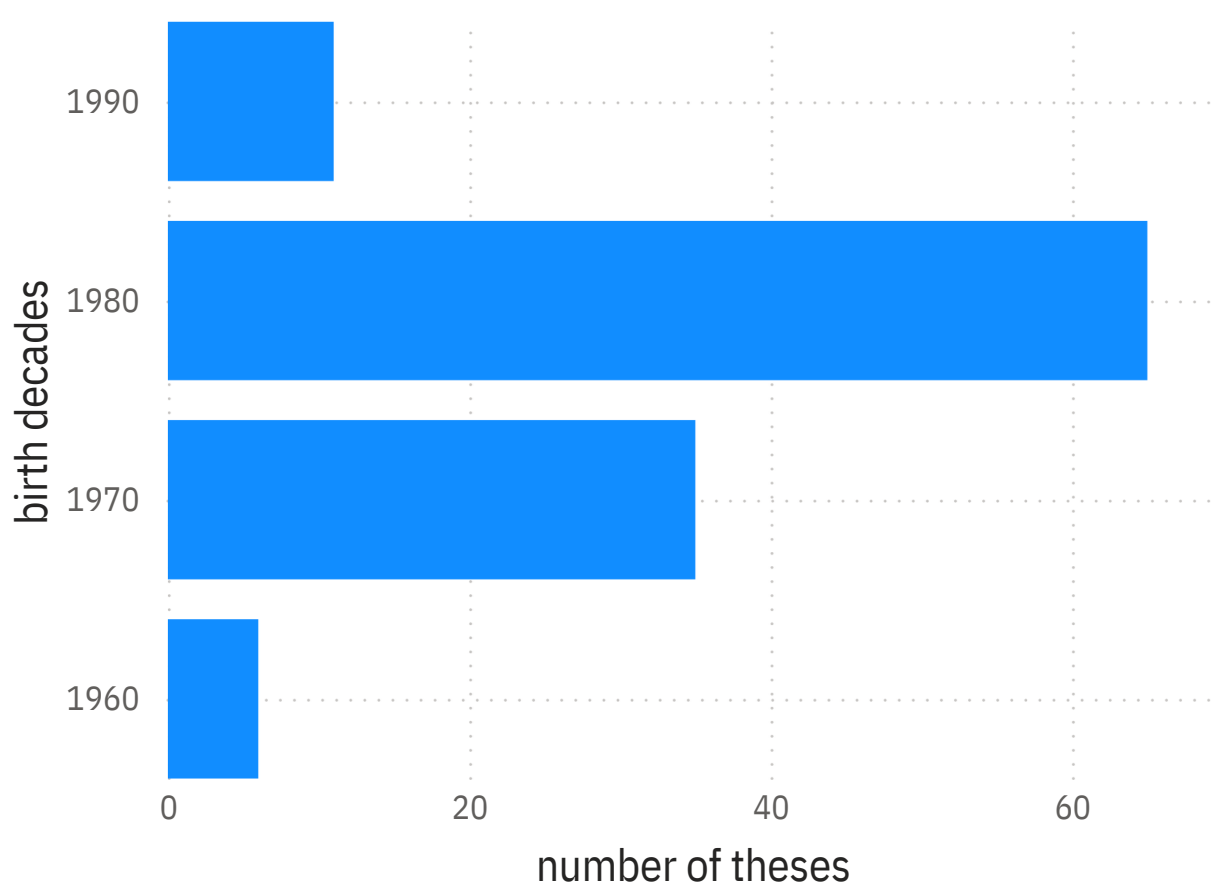
qd <- SPARQL(endpoint, query, curl_args = list(useragent = useragent))
df <- qd$results

print(df)
```

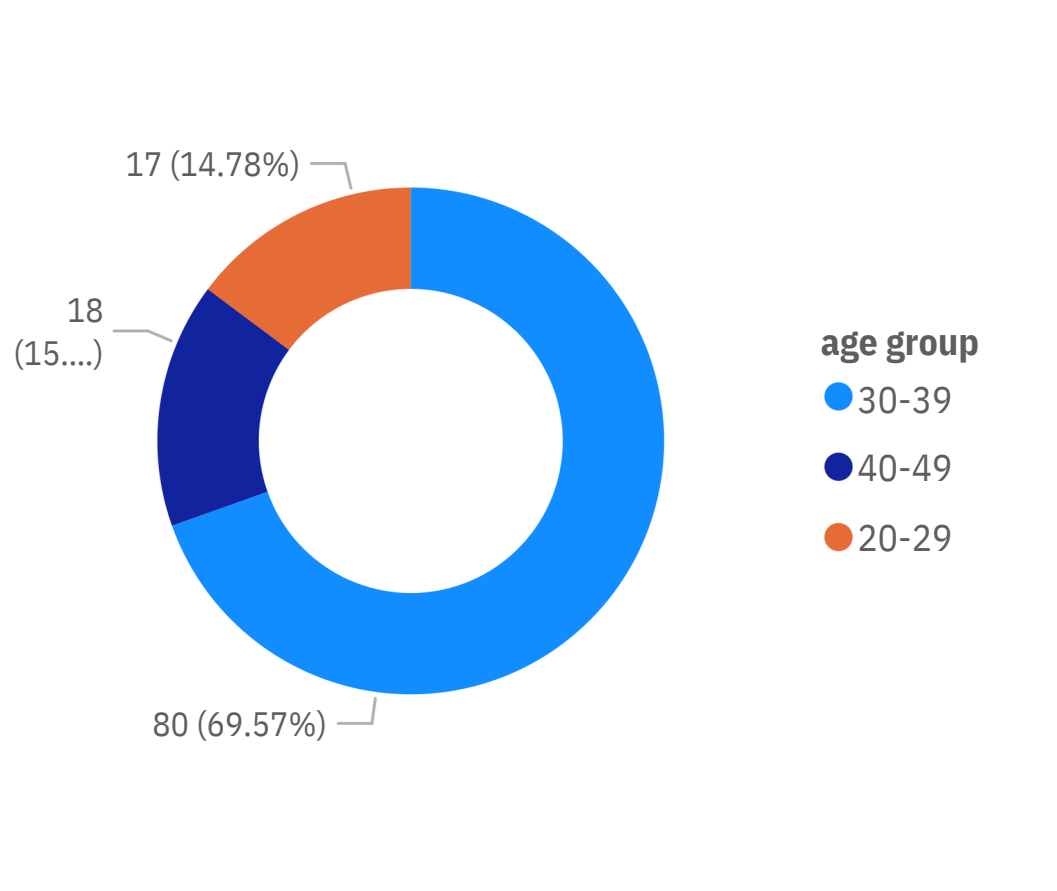
Number of theses by gender



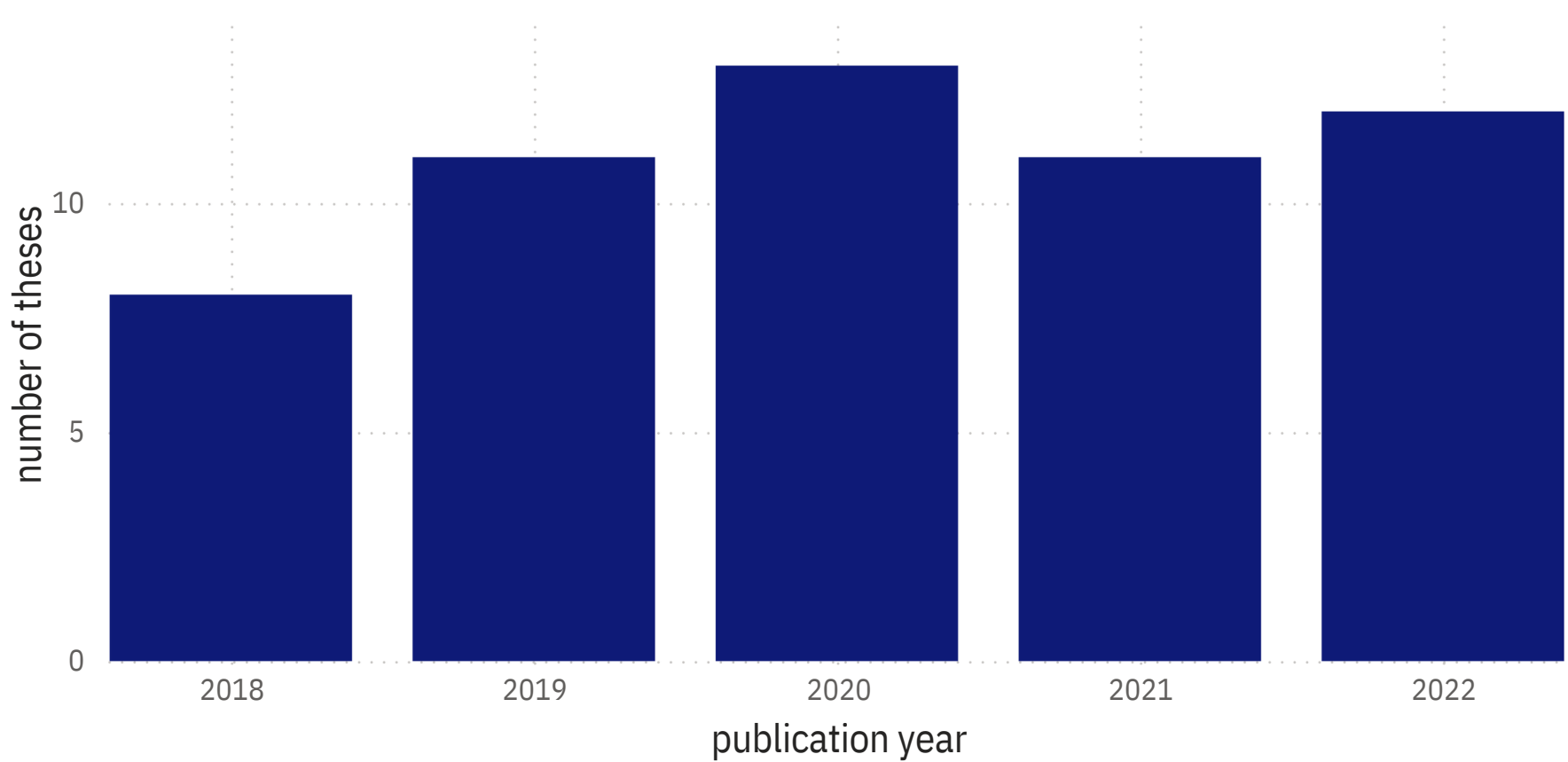
Number of theses by birth decades



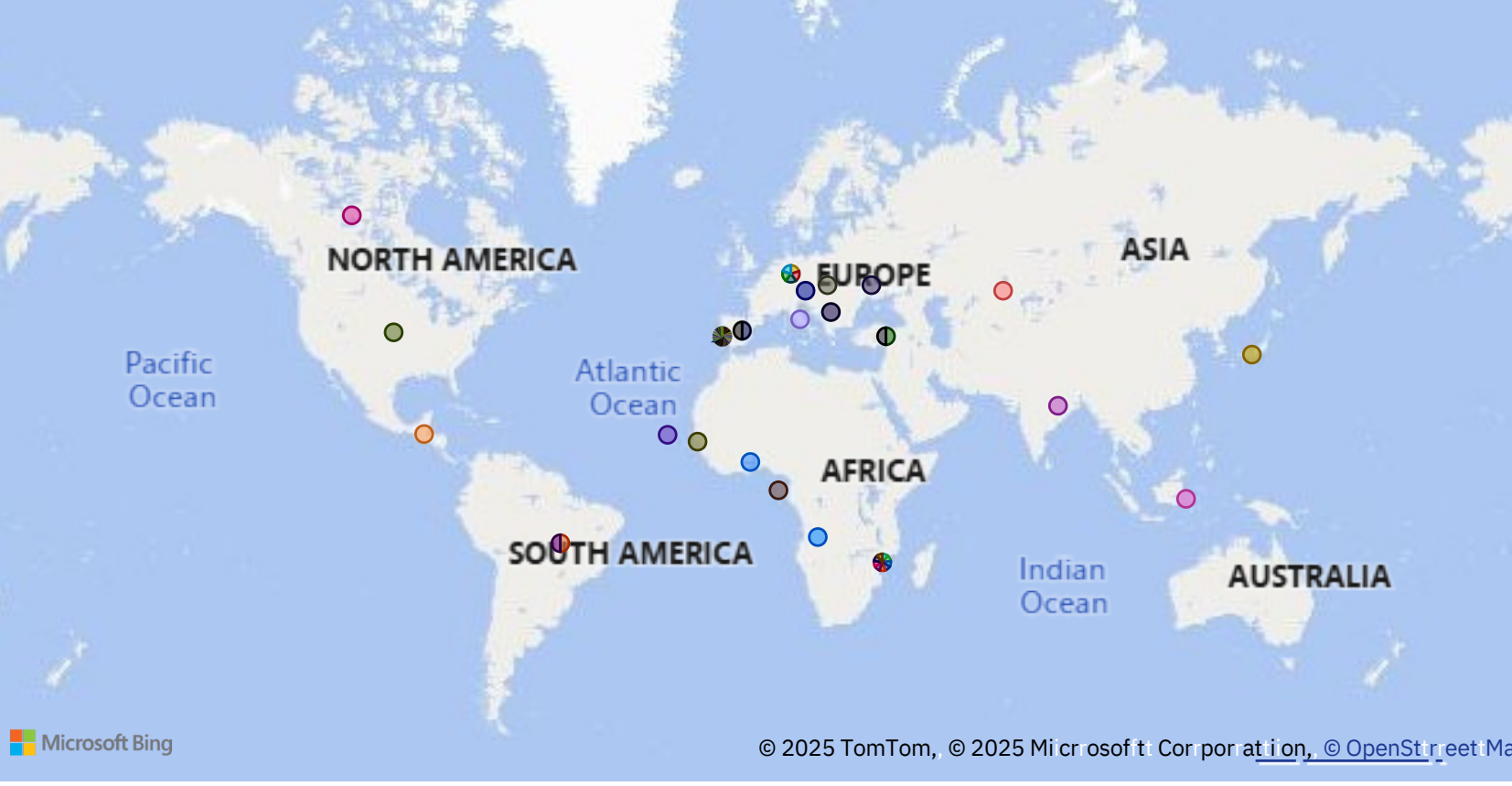
Number of theses by age group



Number of thesis by publication year



Countries corresponding to the nationalities of the doctoral students

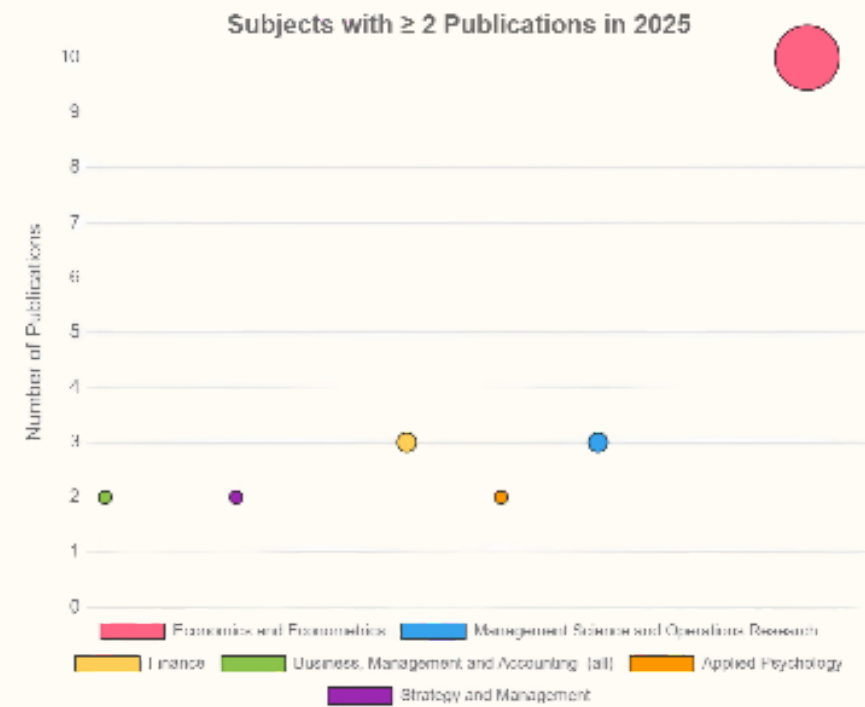
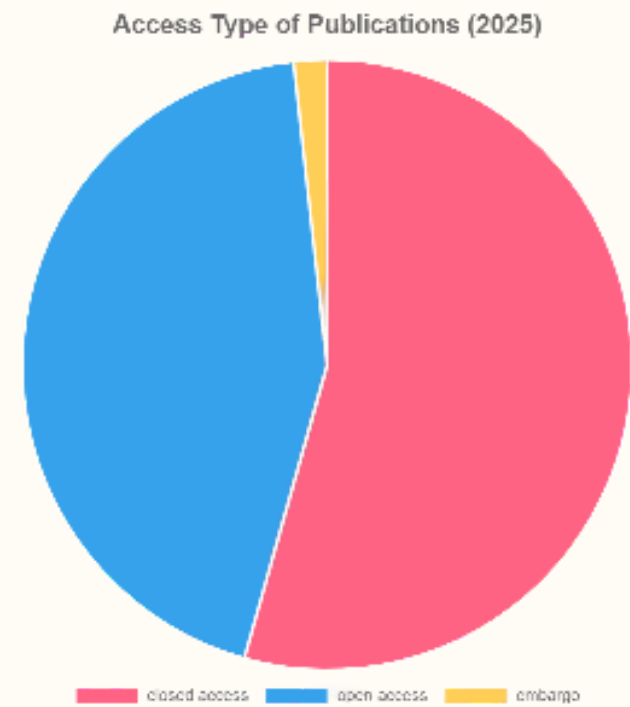
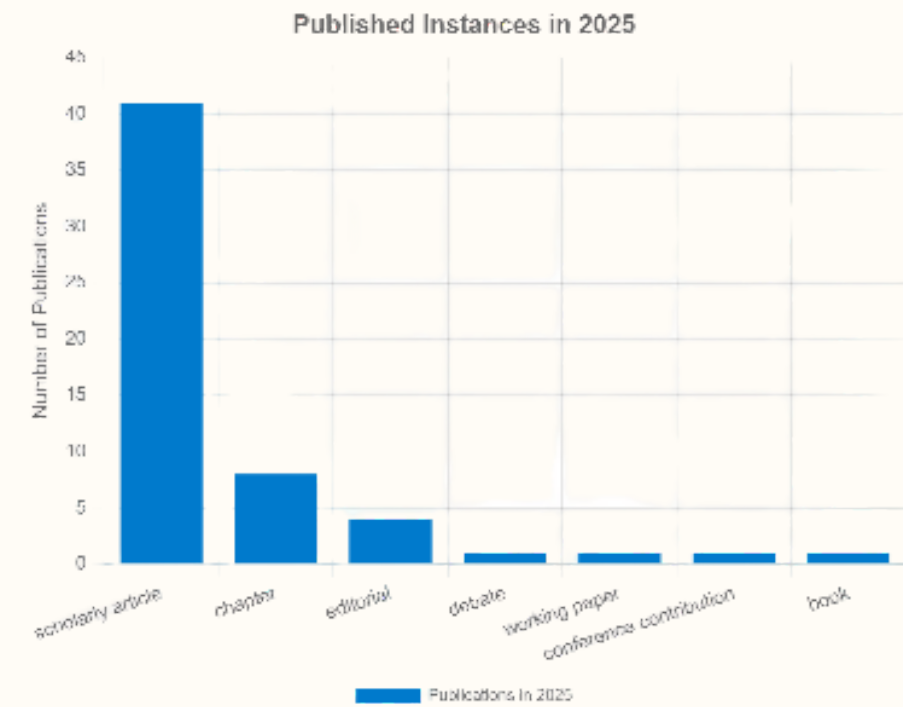


HTML + JavaScript : Moodle

```
<html><head></head>
<body><div style="display: flex; justify-content: flex-start; align-items: flex-start; flex-
wrap: wrap; gap: 40px">
<canvas height="450" id="chartInstances2025" width="550"></canvas>
<canvas height="450" id="chartAccessType2025" width="550"></canvas><div
style="display: flex; flex-direction: row; align-items: flex-start; "><div style="flex: 1;">
</div><div style="display: flex; flex-direction: row; align-items: flex-start; gap: 40px;">
<div style="flex: 1;"><canvas height="450" id="chartSubjects2025" width="550">
</canvas></div><div style="flex: 1;"><div id="abs4-table-section"><h3 style="font-size:
12px">Research outputs ABS4 and ABS4*</h3><div style="display: flex; justify-content:
center;"><table border="1" id="abs4-table" style="width: 550px; font-size: 10px; border-
collapse: collapse;"><thead><tr><th>Author</th><th>Journal</th><th>ABS Level</th>
<th>URL</th></tr></thead><tbody></tbody></table></div>
<script>
async function fetchABS4Data() {
  const endpointUrl = 'https://scilinkdb.wikibase.cloud/query/sparql';
  const sparqlQuery = `
    PREFIX qwb: <https://scilinkdb.wikibase.cloud/entity/>
    PREFIX qdp: <https://scilinkdb.wikibase.cloud/prop/direct/>
    PREFIX p: <https://scilinkdb.wikibase.cloud/prop/>
    PREFIX ps: <https://scilinkdb.wikibase.cloud/prop/statement/>
    PREFIX pq: <https://scilinkdb.wikibase.cloud/prop/qualifier/>
    PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

    SELECT DISTINCT ?autorLabel ?revistaLabel ?nivelABS ?url
    WHERE {
      ?autor qdp:P4 qwb:Q140 .
      ?publicacao qdp:P5 ?autor .
      ?publicacao qdp:P50 ?revista .
      ?revista p:P210 ?absStatement .
      ?absStatement ps:P210 qwb:Q2273 .
      ?absStatement pq:P212 ?nivelABS .
      FILTER(STR(?nivelABS) >= "4")
      OPTIONAL { ?publicacao qdp:P23 ?url . }
      SERVICE wikibase:label { bd:serviceParam wikibase:language "
[AUTO_LANGUAGE],pt,en". }
    }
  `;
  const fullUrl = endpointUrl + '?query=' + encodeURIComponent(sparqlQuery);
  const headers = { 'Accept': 'application/sparql-results+json' };
  try {
    ...
```

NSBE Research Outputs



Research outputs ABS4 and ABS4*

Author	Journal	ABS Level	URL
Cátia Batista	Review of Economics and Statistics	4	Link
Pedro Vicente	Review of Economics and Statistics	4	Link
Miguel Pina e Cunha	Academy of Management Learning and Education	5	Link
Paulo Marques Rodrigues	Journal of Econometrics	4	Link
Melissa Prado	Management Science	5	Link
Ricardo Zóximo	Academy of Management Learning and Education	5	Link
Hans A. Holter	Journal of Monetary Economics	4	Link
Pranadharthiharan Narayanan	European Journal of Operational Research	4	Link
Emanuele Rizzo	Management Science	5	Link
Isabel Lopo	Academy of Management Learning and Education	5	Link
João Tovar Jalles	Regional Studies	4	Link
Nicholas Hirschey	Journal of Economic Perspectives	4	Link
Paolo Leone	Research Policy	5	Link

ANÁLISE
CRÍTICA E
PERSPECTIVAS
FUTURAS

respeito pelo princípio da
sustentabilidade

domínio dos conhecimentos
técnicos

utilização de outras
ferramentas





prompt : Create an image of a librarian standing in a futuristic library surrounded by glowing AI holograms, floating digital books and robotic assistants helping users.



OBRIGADO!

Teresa e Alexandre
Soares dos Santos
Library

NOVA
NOVA SCHOOL OF
BUSINESS & ECONOMICS