

Transcending the Limitations of Traditional Research Dissemination

Mathieu Boudreau, PhD

NeuroPoly, Polytechnique Montréal, Montreal, Canada

NeuroPoly



**POLYTECHNIQUE
MONTRÉAL**

Declaration of Financial Interests or Relationships

Speaker Name: Mathieu Boudreau

I have no financial interests or relationships to disclose with regard to the subject matter of this presentation.

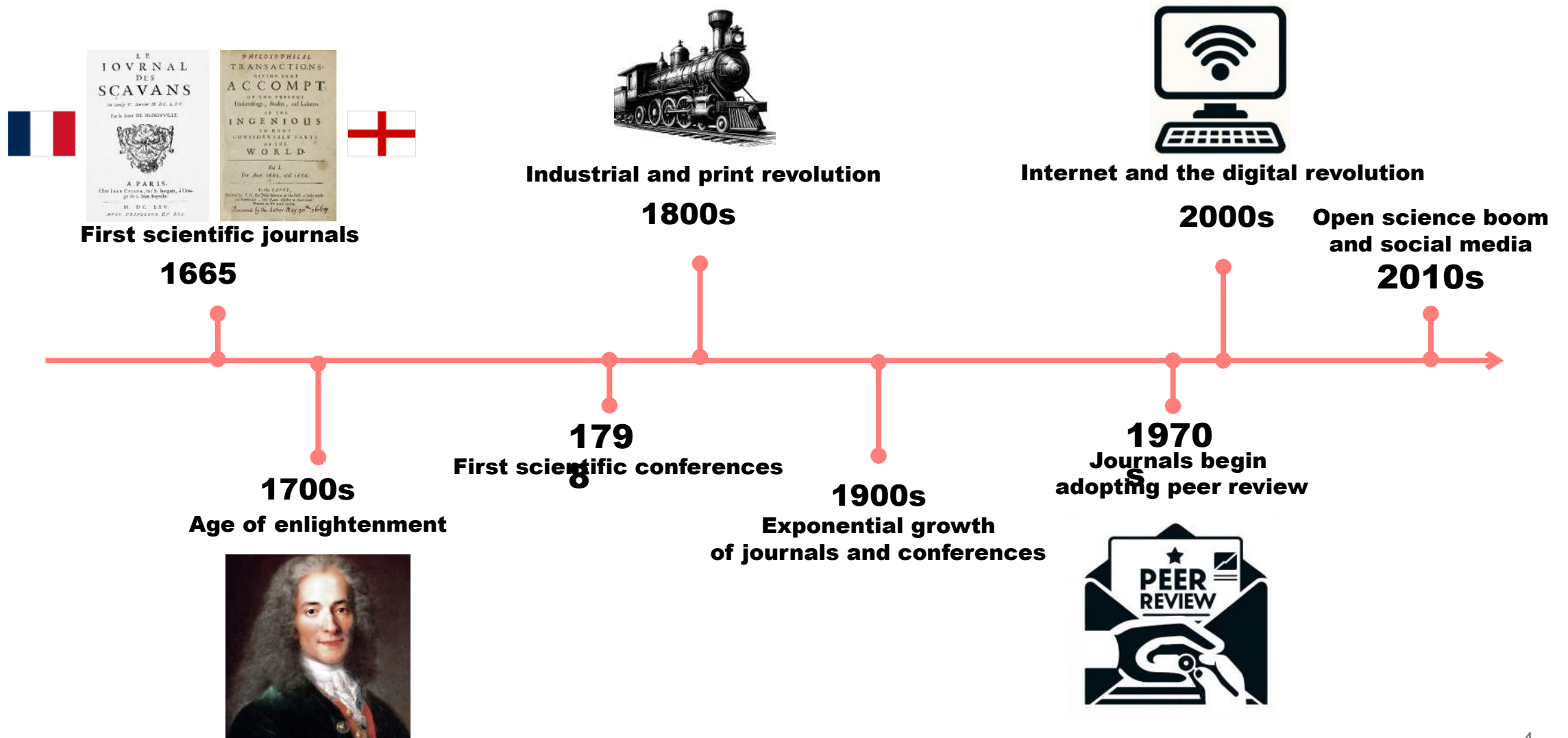
How did we get here?

History

**“Traditional” research
dissemination**

Limitations

History of research dissemination practices



Traditional Research Dissemination

Pitfalls

Academic thesis

Gathers dust, not readers

International conferences

Costly, closed, and ephemeral

Peer reviewed

Few eyes, lacks transparency

Subscription-based journals

Slow, accessibility inequity, static

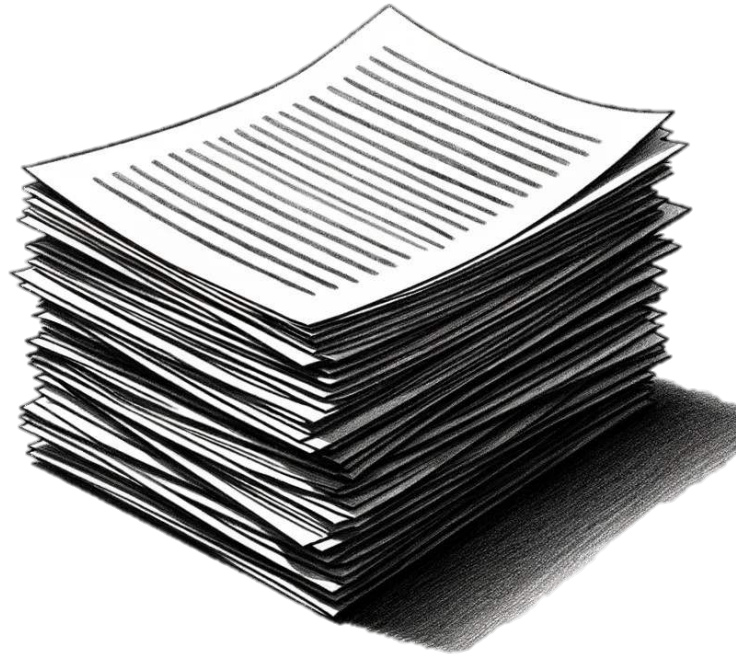
University press releases

Short reach

Limitations of conventional papers

Figures are **static**

Complex research
software and pipelines



Methodology
detail **constraints**

Missing information about proprietary “**black boxes**”

Tools

and

Platforms

Document Writing

**Code and Data
Sharing**

Containerization

Interactivity

Citeable hosting

Social Media

Modern Tools and Platforms for Research Dissemination



Generally
open-science
related



Promote
reproducibility



Interactivity



Web-focused

2. RESULTS

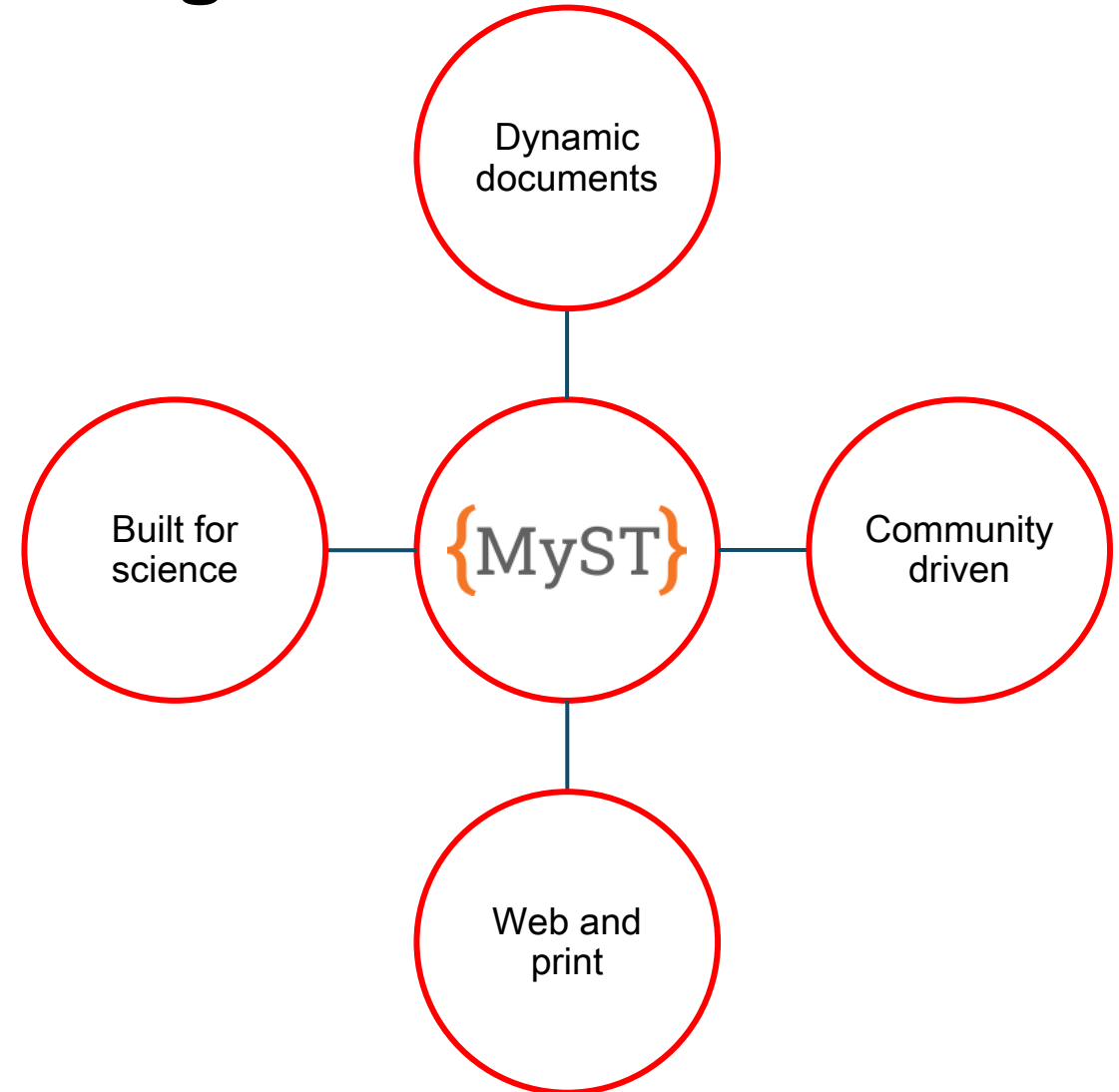
Modern Tools and Platforms for Research Dissemination

Document Writing Tools

{MyST} : Markdown framework for technical documentation and scientific publication

Journal articles, book chapters, tutorials, and blog posts

PDF, Web/HTML, LaTeX, Docx



Modern Tools and Platforms for Research Dissemination

Document Writing Tools

The screenshot displays the Curvenote web application interface. At the top, a navigation bar includes the Curvenote logo, a rich text editor toolbar (bold, italic, underline, link, unlink, list, table, quote, code, indent, outdent, undo, redo), and action buttons for 'STOP EDITING', 'SAVE VERSION', and 'SHARE'. A user profile icon is visible in the top right corner.

The left sidebar, titled 'ISMRM Demo', contains a 'PROJECT DOCUMENTS' section with a toggle switch and a list of documents. The active document is 'Transcending the Limitations of Tradition...', marked as 'has changes'.

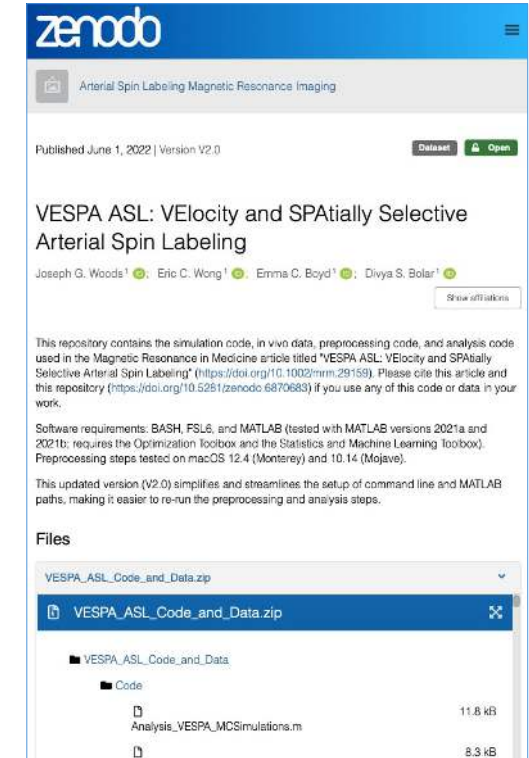
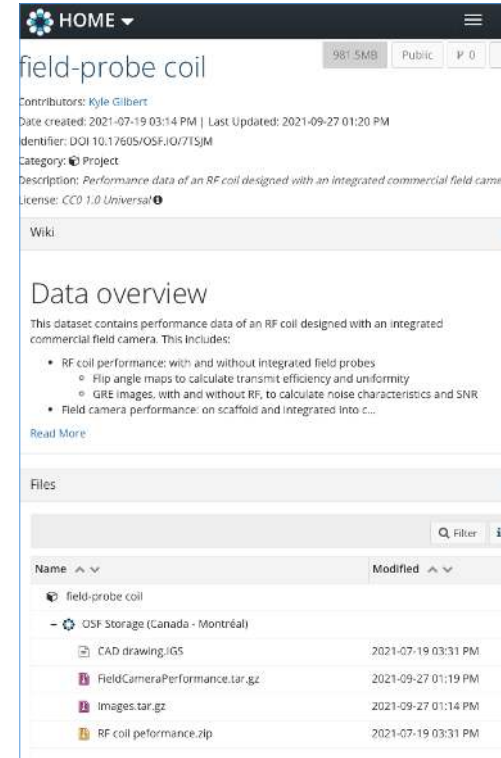
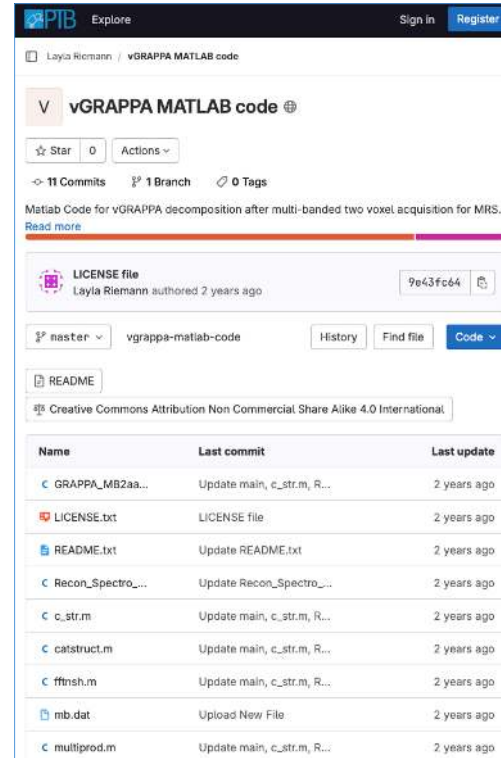
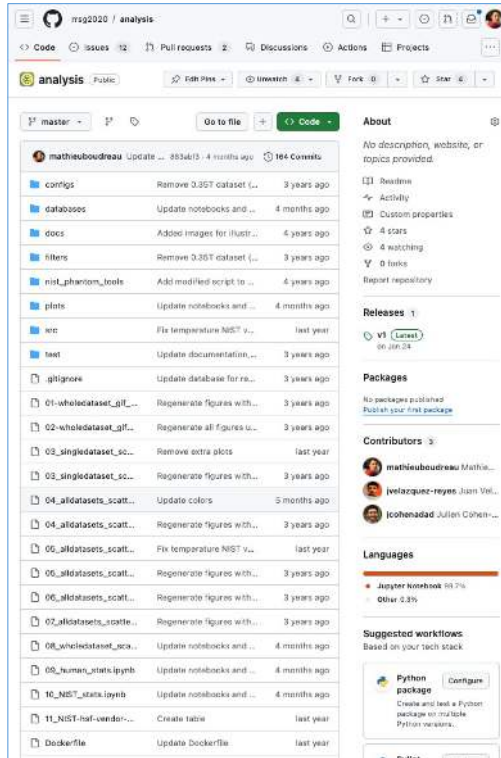
The main editing area shows a document titled 'Transcending the Limitations of Traditional Research Dissemination' by 'Mathieu Boudreau'. The document structure includes a title, subtitle 'ISMRM Demo', author information, date 'Apr 22, 2024', and an abstract. A context menu is open over the abstract, offering options: 'Add Reference' (with sub-option 'Cite existing literature'), 'Numbered list' (with sub-option 'Insert an ordered list'), 'Cite' (with sub-option 'Quickly reference a citation'), 'Table' (with sub-option 'Creates a 2X2 Table'), and 'Card' (with sub-option 'Create a card from a URL or link').

The document content includes an 'Introduction' section with placeholder text: 'You should start your paper gives the reader a good overview of the topic you are making. To add a reference c the reference or cite options. /ref'. Below this is a paragraph of placeholder text: 'Turpis egestas sed tempus. Ultrices in iaculis nunc sed augue. Tortor id aliquet lectus proin nibh nisl condimentum id venenatis. Elit sed vulputate mi sit amet. Tincidunt lobortis feugiat vivamus at. Imperdiet'.

At the bottom, a status bar shows 'Article, 11 blocks, 1067 words' and 'Selected Block: Draft Mode, 156 words'. A 'Saved' indicator is present in the bottom right corner.

Modern Tools and Platforms for Research Dissemination

Code and Data Sharing Platforms



Modern Tools and Platforms for Research Dissemination

Code and Data Sharing Platforms

The screenshot shows a GitHub discussion thread on the `qMRLab / qMRLab` repository. The thread is titled "B0 mapping" and is part of an "Issue". The discussion is between user `spinicist` (commented Feb 28, 2018) and user `lanGagnon7` (commented Aug 3, 2017). The thread includes a code snippet, a paper link, and a discussion about the Abdul-Rahman method and its implementation in `QUIT`.

spinicist commented on Feb 28, 2018 • edited

Hi,

You might be interested in this [paper](#) which compared the Abdul-Rahman to Laplacian unwrapping for QSM, and concluded that the Laplacian was not suitable. The Laplacian intrinsically will always alter phase values at least slightly.

@rtopfer - how were you calculating the residuals? The unwrapped phase is a degenerate value mod 2π - i.e., if your image is the same as the ground truth $\pm$ a global integer multiple of 2π , that's actually a valid solution. If the Abdul-Rahman method picks the "wrong" region as having the highest reliability, then it will produce such an answer. It looks to me like this may have happened. Also, I would argue that a comparison without noise is not very useful. The whole point of the Abdul-Rahman method is that it is very robust against noise.

I recently implemented the Abdul-Rahman method in [QUIT](#), after finding it in the MEDI toolbox. In my opinion, from running it on a few datasets here, the results are as robust as `prelude`, but it is far faster, so personally I'm planning to use it from now on. I experienced the 2π issue above while writing my tests for it.

lanGagnon7 commented on Aug 3, 2017 • edited

My test post, we could simply keep both `prelude` and `sunwrap` - that way users can use the one they like to use `prelude` and user who hasn't to use `sunwrap`.

What do you guys think? **@mathieuboudreau** and **@tanguyduval**

Best,
lan

The screenshot also shows a heatmap visualization of B0 mapping results, with a color scale from 10 to 40. The heatmap shows a complex pattern of yellow and blue pixels, indicating phase values. The visualization is titled "B0 mapping" and has a green "Open" button next to it.

Modern Tools and Platforms for Research Dissemination

Computational Environment Containerization

```
environment.yml
! environment.yml
Stoyan I. Asenov, 4 months ago | 4 authors (You and others)
1 name: ads_venv
2 dependencies:
3   - python=3.8
4   - h5py=2.10.0
5   - numpy
6   - scipy
7   - scikit-learn=1.1.1
8   - scikit-image=0.19.3
9   - tabulate<
10  - pandas
11  - matplotlib
12  - mpld3
13  - tqdm
14  - requests
15  - pillow!=9.0.0
16  - imageio<2.28.0
17  - pytest
18  - pytest-cov
19  - prettytable
20  - jupyter
21  - openpyxl
22  - qtconsole<5.4.2
23  - pip
24  - pip:
25    - nibabel==3.2.*
26    - raven
27    - napari
28    - protobuf==3.20.1
29    - ivadomed @ git+https://github.com/ivadomed/ivadomed
30    - onnxruntime<1.16.0
```

```
runtime.txt
binder > runtime.txt
Agah, 10 months ago | 1 author (Agah)
1 python=3.8

requirements.txt
binder > requirements.txt
You, 3 months ago | 2 authors (Mathieu Boudreau, PhD and others)
1 jupyter-book==0.13.0
2 plotly
3 matplotlib==3.5.1
4 numpy==1.21.6
5 pandas
6 nibabel==3.2.2
7 scipy
8 markdown
9 wget
10 jupyterlab-mathjax3
11 repo2data
12 osfclient
13 seaborn

$ postBuild
binder > $ postBuild
Agah, 6 months ago | 2 authors (Agah and others)
1 #!/bin/bash
2 git clone --depth=1 https://github.com/rrsg2020/analysis.git content/analysis
3

data_requirement.json
binder > data_requirement.json
Mathieu Boudreau, PhD, 3 months ago | 3 authors (Mathieu Boudreau, PhD and others)
1 {
2   "src": "https://github.com/rrsg2020/analysis/releases/download/v1/rrsg-2020-note",
3   "dst": "../data",
4   "projectName": "rrsg-2020-note"
5 }
6
```

```
Dockerfile
Users > mathieuboudreau > neuropoly > github > t1_book > binder > Dockerfile
You, 2 years ago | 1 author (You)
1 FROM jupyter/base-notebook:latest
2
3 USER root
4
5 RUN apt-get update && \
6     apt-get install -y --no-install-recommends \
7         build-essential \
8         git \
9         python3-dev && \
10    apt-get clean && \
11    apt-get autoremove && \
12    rm -rf /var/lib/apt/lists/* /tmp/* /var/tmp/*
13
14 RUN cd $HOME/work; \
15     pip install --upgrade pip --ignore-installed certifi; \
16     pip install jupyter-book \
17         scipy \
18         plotly \
19         flask \
20         ipywidgets \
21         nbconvert \
22         jupyterlab \
23         jupyter-text \
24         matplotlib \
25         chart_studio; \
26     git clone https://github.com/qMRLab/t1_book.git; \
27     cd t1_book; \
28     git checkout neurolibre-plots-only; \
29     chmod -R 777 $HOME/work/t1_book;
30
31 WORKDIR $HOME/work/t1_book
32
33 USER $NB_UID
```



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Interactivity

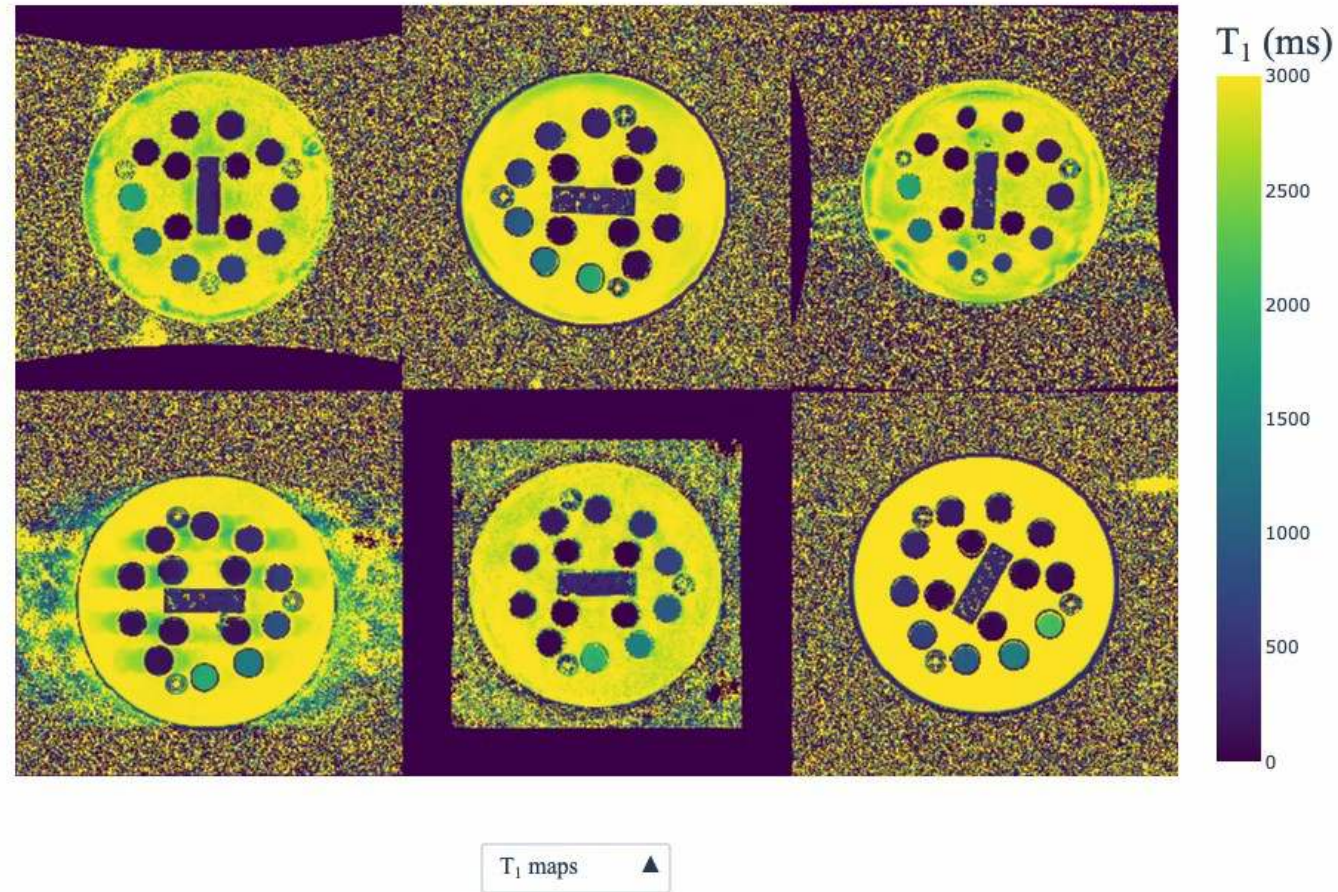
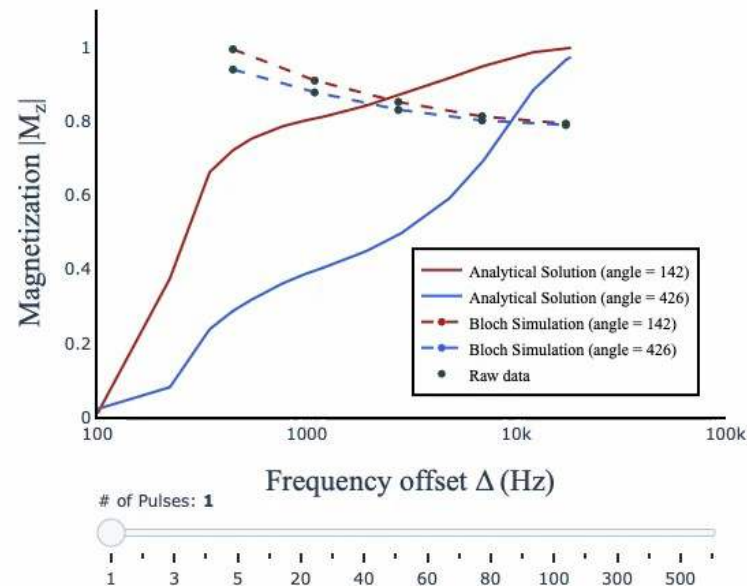


Figure 4 Example T1 maps that were generated from submitted data. Note the differences in acquisitions (e.g. FOV (top middle), orientation (bottom right, gradient distortion correction (top left and right) and resulting artifacts in the T1 maps (e.g. ghosting (bottom left), ringing (bottom middle), noise profiles (top left and bottom right), deformation/slice mispositioning (top right))) resulting from the independently-implemented acquisition protocols.

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Interactivity

Figure 4. Z-spectrum simulated using Bloch simulations (dashed lines) for a number of MT pulses ranging from 1 to 600. Bloch simulations are compared with the Z-spectrum obtained from the analytical solution (solid lines).



Data Fitting

In qMT imaging, the biophysical model relates the parameters observed in the two-pool tissue model to physical quantities such as the fractional size of the pools, relaxation times and

Modern Tools and Platforms for Research Dissemination

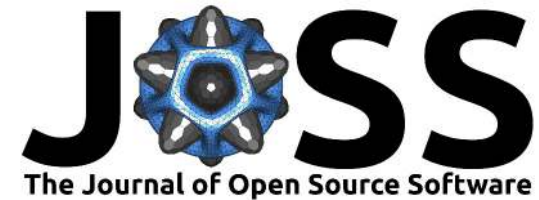
Citeable non-print platforms



THE PREPRINT SERVER FOR BIOLOGY



THE PREPRINT SERVER FOR HEALTH SCIENCES



Modern Tools and Platforms for Research Dissemination

Social Media



(or, the social media platform formally known as )



Examp e



Paper is not enough: Crowdsourcing the T1 mapping common ground via the ISMRM reproducibility challenge

DOI: [10.55458/neurolibre.00023](https://doi.org/10.55458/neurolibre.00023)

Reproducible Preprint

- [Jupyter Book](#)

Code

- [Technical Screening](#)
- [Submitted Repository](#)

Reproducibility Assets

- [Repository](#)
- [Dataset](#)
- [Jupyter Book](#)
- [Container](#)

*Mathieu Boudreau^{1,2}, *Agah Karakuzu^{1,2}, Julien Cohen-Adad^{1,3,4,5}, Ecem Bozkurt⁶, Madeline Carr^{7,8}, Marco Castellaro⁹, Luis Concha¹⁰, Mariya Doneva¹¹, Seraina A. Dual¹², Alex Ensworth^{13,14}, Alexandru Foias¹, Véronique Fortier^{15,16}, Refaat E. Gabr¹⁷, Guillaume Gilbert¹⁸, Carri K. Glide-Hurst¹⁹, Matthew Grech-Sollars^{20,21}, Siyuan Hu²², Oscar Jalnefjord^{23,24}, Jorge Jovicich²⁵, Kübra Keskin⁶, Peter Koken¹¹, Anastasia Kolokotronis^{13,26}, Simran Kukran^{27,28}, Nam. G. Lee⁶, Ives R. Levesque^{13,29}, Bochao Li⁶, Dan Ma²², Burkhard Mädler³⁰, Nyasha Maforo^{31,32}, Jamie Near^{33,34}, Erick Pasaye³⁵, Alonso Ramirez-Manzanares³⁵, Ben Statton³⁶, Christian Stehning³⁰, Stefano Tambalo²⁵, Ye Tian⁶, Chenyang Wang³⁷, Kilian Weis³⁰, Niloufar Zakariaei³⁸, Shuo Zhang³⁰, Ziwei Zhao⁶, Nikola Stikov^{1,2,39}

* These authors contributed equally.



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Example: T1 challenge NeuroLibre preprint

Technical Details: Preprint

Manuscript written in a **Jupyter Notebook**

Written in **Markdown + HTML**

Coded in **Python**

Interactive figures via **Plotly**

Web version created with **Jupyter Book**

Environment reproducibility via a **Docker** container

Published on the **NeuroLibre** platform

Example: T1 challenge NeuroLibre preprint



Paper is not enough: Crowdsourcing the T_1 mapping common ground via the ISMRM reproducibility challenge

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**Authors MB and AK contributed equally to this work*

¹NeuroPoly Lab, Polytechnique Montréal, Montreal, Quebec, Canada, ²Montreal Heart Institute, Montreal, Quebec, Canada, ³Unité de Neuroimagerie Fonctionnelle (UNF), Centre de recherche de l'Institut Universitaire de Gériatrie de Montréal (CRIUGM), Montreal, Quebec, Canada, ⁴Mila - Quebec AI Institute, Montreal, QC, Canada, ⁵Centre de recherche du CHU Sainte-Justine, Université de Montréal, Montreal, QC, Canada, ⁶Magnetic Resonance Engineering Laboratory (MREL), University of Southern California, Los Angeles, California, USA, ⁷Medical Physics, Ingham Institute for Applied Medical Research, Liverpool, Australia, ⁸Department of Medical Physics, Liverpool and Macarthur Cancer Therapy Centres, Liverpool, Australia, ⁹Department of Information Engineering, University of Padova, Padova, Italy, ¹⁰Institute of Neurobiology, Universidad Nacional Autónoma de México Campus Juriquilla, Querétaro, México, ¹¹Philips Research Hamburg, Germany, ¹²Department of Radiology, Stanford University, Stanford, California, United States, ¹³Medical Physics Unit, McGill University, Montreal, Canada, ¹⁴University of British Columbia, Vancouver, Canada, ¹⁵Department of Medical Imaging, McGill University Health Centre, Montreal, Quebec, Canada, ¹⁶Department of Radiology, McGill University, Montreal, Quebec, Canada, ¹⁷Department of Diagnostic and Interventional Imaging, University of Texas Health Science Center at Houston, McGovern Medical School, Houston, Texas, USA, ¹⁸MR Clinical Science, Philips Canada, Mississauga, Ontario, Canada, ¹⁹Department of Human Oncology, University of Wisconsin-Madison, Madison, Wisconsin, USA, ²⁰Centre for Medical Image Computing, Department of Computer Science, University College London, London, UK, ²¹Lysholm Department of Neuroradiology, National Hospital for Neurology and Neurosurgery, University College London Hospitals NHS Foundation Trust, London, UK, ²²Department of Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio, USA, ²³Department of Medical Radiation Sciences, Institute of Clinical Sciences, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, ²⁴Biomedical Engineering, Sahlgrenska University Hospital, Gothenburg, Sweden, ²⁵Center for Mind/Brain Sciences, University of Trento, Italy, ²⁶Hopital Maisonneuve-Rosemont, Montreal, Canada, ²⁷Bioengineering, Imperial College London, UK, ²⁸Radiotherapy and Imaging, Institute of Cancer Research, Imperial College London, UK, ²⁹Research Institute of the McGill University Health Centre, Montreal, Canada, ³⁰Clinical Science, Philips Healthcare, Germany, ³¹Department of Radiological Sciences, University of California Los Angeles, Los Angeles, CA, USA, ³²Physics and Biology in Medicine IDP, University of California Los Angeles, Los Angeles, CA, USA, ³³Douglas Brain Imaging Centre, Montreal, Canada, ³⁴Sunnybrook Research Institute, Toronto, Canada, ³⁵Computer Science Department, Centro de Investigación en Matemáticas, A.C., Guanajuato, México, ³⁶Medical Research Council, London Institute of Medical Sciences, Imperial College London, London, United Kingdom, ³⁷Department of Radiation Oncology - CNS Service, The University of Texas MD Anderson Cancer Center, Texas, USA, ³⁸Department of Biomedical Engineering, University of British Columbia, British Columbia, Canada, ³⁹Center for Advanced Interdisciplinary Research, Ss. Cyril and Methodius University, Skopje, North Macedonia

Abstract

Example: T1 challenge NeuroLibre preprint



Paper is not enough: Crowdsourcing the T₁ mapping common ground via the ISMRM reproducibility challenge

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Parting Thoughts

Maximizing Impact

Looking Ahead

Online Resources

Ten steps to innovative dissemination

1. Get the basics right

Define your objectives, map your audience(s), target and frame your messages and bring this together into a dissemination plan of what you'll release and when.

2. Keep the right profile

Use personal websites, social media accounts, researcher identifiers and academic social networks to make you and your research visible.

3. Encourage participation

In the age of Open Science, don't just broadcast, go for multi-directional dissemination. Invite & engage with others to participate & collaborate.

4. Open science for impact

Open Access publications and preprints mean more citations. In addition, publishing datasets, software and peer reviews increase your number of citable research outputs.

5. Remix traditional outputs

Give traditional outputs like research articles and books an impact-boost with accompanying lay-summaries, press-releases, blogs, and visual/video abstracts.

6. Go live

In person dissemination doesn't just have to be at stuffy conferences – hit the road and take part in science festivals, science slams, TEDx talks, science festivals, or roadshows.

7. Think visual

Disseminate findings through art or multimedia interpretations. Let your artistic side loose or use new visualisation techniques to produce intuitive, attractive data displays.

8. Respect diversity

Research should reach all who might benefit. Respect inclusion in scientific dissemination by creating messages which reflect gender, demography and ability diversity.

9. Find the right tools

Choose media, format and dissemination strategy based on your communication objectives. Find tools via, e.g., the OpenUP Hub: openuphub.eu/disseminate/services

10. Evaluate, evaluate, evaluate

Assess your dissemination activities. Are they having the right impact? If not, why not?

Maximizing impact: do's and don'ts

Do

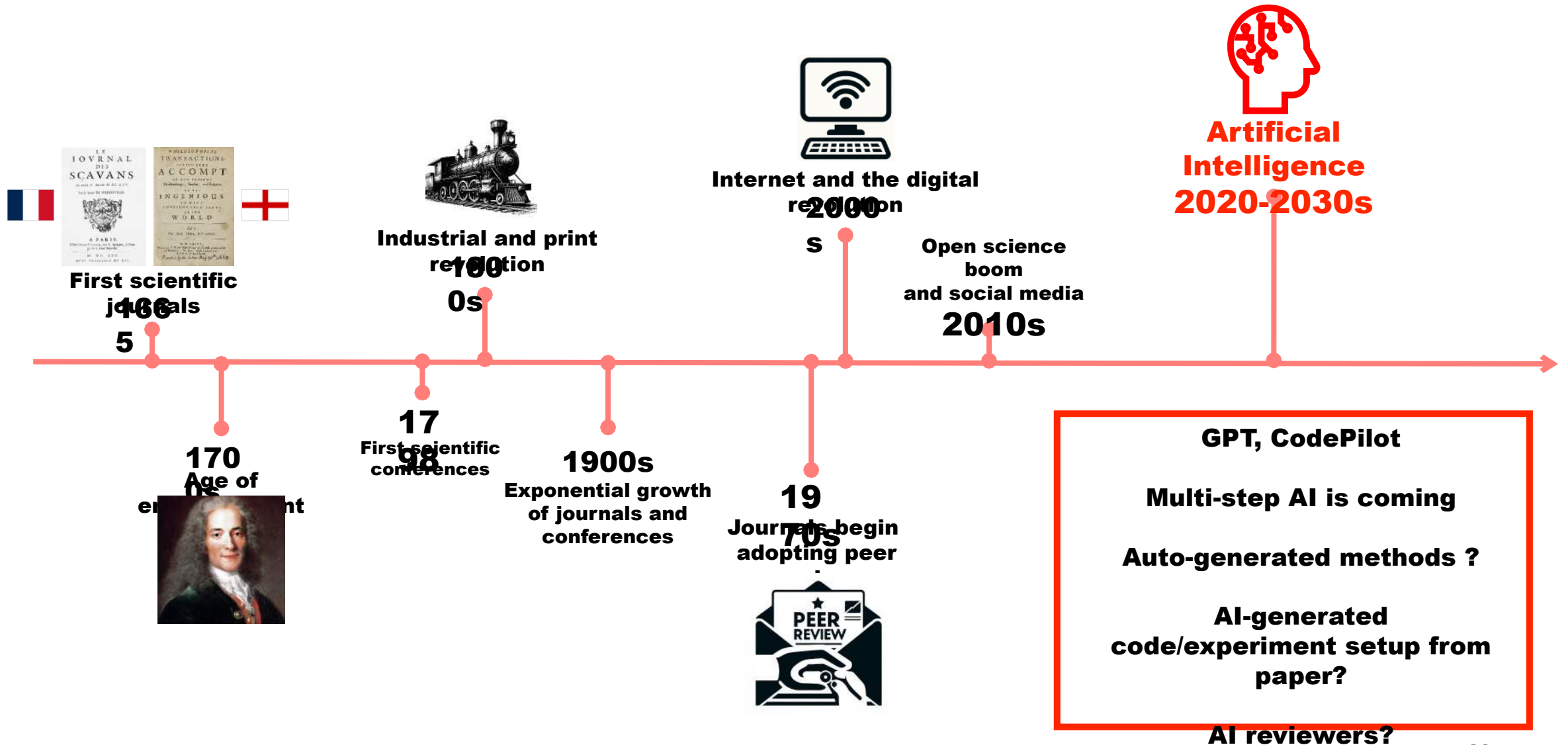
- Leverage communication platforms that you're active in
- Create interactive content
- Be open
- Follow FAIR practices

Findabl
e
Accessib
le
Interoperat
ble
Reusabl
e

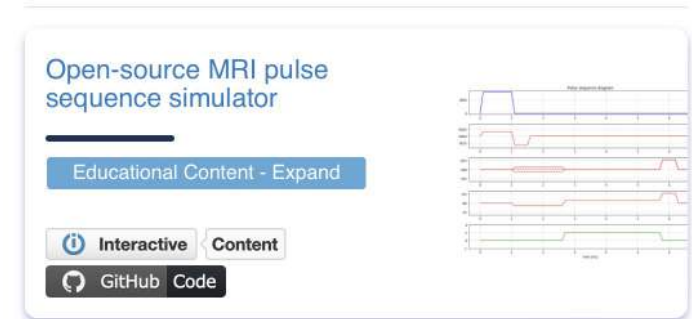
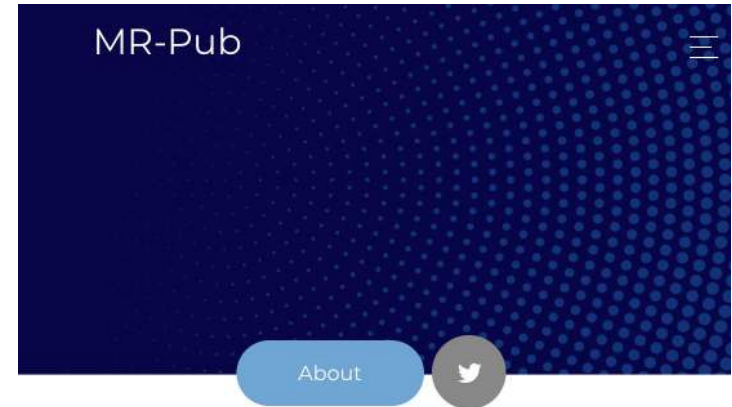
Don't

- Spam content repeatedly / too frequently
- Overburden yourself

Looking Ahead



Online Resources



Can Un-trained Networks
Compete with Trained Ones for

Open Source in Lab Management

Thursday, 09 May 2024
07:00 - 08:00
Room 325-326



**Julien Cohen-
Adad**

NeuroPoly



**POLYTECHNIQUE
MONTRÉAL**

MRM Highlights



MRM Turns 40

The story of MRM
Most inspiring
MRM articles

Presidential Interview

Derek Jones

Singapore Meeting

MR in Singapore

MRM Highlights Magazine & Blog

Q&A OSIPI LEADERSHIP: LAURA BELL, BEN DICKIE, PETRA VAN HOUDT, HENK MUTSAERTS, AND YURIKO SUZUKI

The road to the ISMRM OSIPI: A community-led initiative for reproducible perfusion MRI

INTERVIEW BY MATHIEU BOUDREAU

EDITOR'S PICK FOR JUNE

This MRM Highlights Pick interview is with current and past members of the ISMRM Open Science Initiative for Perfusion Imaging (OSIPI) leadership, **Laura Bell** (Genentech), **Ben Dickie** (University of Manchester), **Petra van Houdt** (the Netherlands Cancer Institute), **Henk Mutsaerts** (Amsterdam University Medical Center), and **Yuriko Suzuki** (University of Oxford). Their first two-year roadmap has resulted in a collection of MRM publications.

important effort. I gave them some feedback and ideas which they liked, apparently enough to want me to join the OSIPI leadership when I was the trainee representative of the ISMRM Perfusion Study Group.

Yuriko: I first started working in MRI as a clinician.



Clockwise from above: OSIPI logo, Laura Bell, Petra van Houdt, Yuriko Suzuki, Ben Dickie, Henk Mutsaerts.



Highlights Afterparty

**May 9th at BluJaz Cafe, 11
Bali Ln,**



Acknowledgements



**Nikola
Stikov**



**Julien Cohen-
Adad**



**Agah
Karakuzu**

