

Manuscripts for X12-837-Fake-Data-Generator

This folder contains publication materials for the X12-837-Fake-Data-Generator project.

Future Publication Ideas (Outlines)

Additional manuscripts for development after JOSS publication:

1. Software/Tool Paper (COMPLETED)

File: [01_software_tool_paper.md](#) (detailed outline, now superseded by [paper.md](#))

Status:  Draft complete as [paper.md](#)

2. Educational Methods Paper

File: [02_educational_methods.md](#)

Target Journals: JAMIA, Journal of Biomedical Informatics Education, Academic Medicine

Focus: Using synthetic claims data for healthcare informatics education

Requirements: Pilot study data from teaching with the tool

3. Synthetic Data Generation Methods

File: [03_synthetic_data_methods.md](#)

Target Journals: JAMIA, Journal of Biomedical Informatics, Health Data Science

Focus: Methodology for generating realistic synthetic healthcare claims while preserving privacy

Requirements: Validation studies comparing synthetic to real claims distributions

4. Healthcare Interoperability Standards

File: [04_interoperability_standards.md](#)

Target Journals: JAMIA, Applied Clinical Informatics, International Journal of Medical Informatics

Focus: Practical implementation of X12 EDI standards for healthcare data exchange

Requirements: Time-tracking data, developer surveys, implementation case studies

5. Data Analytics Framework

File: [05_analytics_framework.md](#)

Target Journals: Journal of Healthcare Engineering, Health Information Science and Systems

Focus: Framework for claims-level analytics and population health insights

Requirements: Demonstration analyses on synthetic data, validation against benchmarks

Recommended Publication Strategy

Phase 1 (Immediate) - Establish Software Credibility

 **JOSS Software Paper** ([paper.md](#))

- Quickest to publish (2-3 months)
- Establishes tool credibility
- Provides citable DOI for other papers
- Required before submitting methods papers

Action: Complete [SUBMISSION_CHECKLIST.md](#) and submit to JOSS

Phase 2 (3-6 months) - Applied Research

After JOSS acceptance, pursue application papers:

- **Educational Methods** - if teaching with the tool
- **Interoperability Standards** - developer-focused audience

Phase 3 (6-12 months) - Advanced Methods

After tool adoption grows:

- **Synthetic Data Methods** - requires validation studies
- **Analytics Framework** - requires demonstration analyses

Why Start with JOSS?

1. **Fast turnaround** (2-3 months typical)
2. **Lower barrier** (software-focused, less data required)
3. **Establishes credibility** for tool
4. **Provides DOI** for citing in other papers
5. **Open access** and free to publish
6. **Community visibility** in open-source community

Examples and References

- [01/examples/](#) - Contains two published JOSS papers as format references:
 - [10.21105.joss.06581.txt](#) - dataquieR 2 (health data quality)
 - [10.21105.joss.04062.txt](#) - PopMedNet (distributed health networks)

Pre-Submission Quick Start (30 minutes)

1. **Review the paper** ([paper.md](#))
 - Check for accuracy
 - Update any placeholders
 - Proofread for typos
2. **Update metadata**
 - Add your ORCID ID (get free at <https://orcid.org>)

- Update affiliation
- Verify repository URL

3. Add LICENSE

- Copy MIT License to repository root as **LICENSE**
- Update copyright year and name

4. Create Zenodo account

- Link GitHub repository
- Will be needed for DOI

5. Optional: Add tests

- Even basic tests strengthen submission
- Creates **tests/** directory with simple validation

6. Submit to JOSS

- Visit <https://joss.theoj.org/papers/new>
- Provide GitHub repo URL
- Wait for review

Helpful Resources

- **JOSS Submission Portal:** <https://joss.theoj.org/papers/new>
- **JOSS Guidelines:** <https://joss.readthedocs.io/en/latest/submitting.html>
- **JOSS Review Criteria:** https://joss.readthedocs.io/en/latest/review_criteria.html
- **Zenodo:** <https://zenodo.org/>
- **ORCID:** <https://orcid.org/>

Questions?

- **JOSS Support:** <https://joss.theoj.org/about#contact>
- **JOSS Community:** <https://gitter.im/openjournals/joss>

Ready to make your research citable! 🎉

Start with **SUBMISSION_CHECKLIST.md** to ensure all requirements are met before submitting to JOSS.