


Tim Williams



Linked Data & Knowledge Graph architect and educator. [F.A.I.R.](https://www.linkedin.com/in/timpwilliams/) data advocate. Over fifteen years of experience in the pharmaceutical industry, preceded by ten years in healthcare and environmental informatics.

Contact

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Skills

Certified Scrum PSPO
Team Leadership
Project Management
Communications
Course Development & Instruction
Systems Validation
Data Visualization

Software & Languages

- RDF
- Protégé
- OWL
- R, R Shiny
- SPARQL
- SAS
- SHACL

Awards and Activities

2018 – 2019 Steering Committee, PHUSE Computational Science Symposium
2018 PHUSE Outstanding Contributor, Americas
2016 **Best Paper**, Data Visualization. EUConnect16
2013 **Best Paper**, Applications and Software Development EUConnect13



Projects and Workshops

Author and Instructor: *Let's Make a Knowledge Graph!* <http://bit.ly/learnkg>

A hands-on, interactive workshop introducing RDF Knowledge Graphs.

Project Co-lead: 1. *Study Data Validation and Submission Conformance*. (2020) <https://phuse-org.github.io/SENDConform>. A PHUSE, FDA, Academia collaboration. Cancelled due to pandemic.

2. *Going Translational with Linked Data*. (2018-2019) <http://bit.ly/ctdasrdf>

Ontology-based modeling of clinical trials results data with conversion to RDF.

3. *RDF Data Cubes for Clinical Research & Development* (2016) <http://bit.ly/cuberdf>

Co-Author: *Unique Identifiers for Pharma* <http://bit.ly/UIDPharma>

Presentations and Publications

A Gateway to Knowledge Graphs. A KG for personal use. 2021. <https://bit.ly/KGGateway>

Knowledge Graph Visualization (for fun). 2021. <https://bit.ly/KG-VisChallenge>

Knowledge Graphs: Shaping our Data Future. Presentation to Accenture Federal Services 2020. <http://bit.ly/KGShapeDataFuture>

How Knowledge Graphs will Transform the Pharmaceutical Industry. A PHUSE/Stardog webinar 2020. <http://bit.ly/KGTransPharma>

Williams, T. **Building a FAIR Foundation for Pharma.** PHUSE EUConnect 2019; Amsterdam. <http://bit.ly/eucon19>

Toward F.A.I.R. Pharma. PHUSE Initiatives Past and Present. Presented at Semantics@Roche 2019; Basel. <http://bit.ly/fairpharm>

Knowledge Graphs for Pharma. Presented at Pistoia Alliance, 2019. <http://bit.ly/kgpharm>

Semantic Web in the Pharmaceutical Industry: A Landscape of Challenges and Opportunities. Presented at SWAT4HCLS 2018; Antwerp. <http://bit.ly/swpharm>

Williams, T. **Overcoming Resistance to Technology Change: A Linked Data Perspective.** PHUSE EUConnect 2018; Frankfurt. <http://bit.ly/eucon18>

Oliva, A. and T. Williams. **Transforming Clinical Trials with Linked Data.** PhUSE USConnect 2018; Raleigh. <http://bit.ly/uscon18>

Williams, T. and A. Oliva. **Breaking the Mould: Clinical Trials Data as RDF.** PHUSE EUConnect 2017; Edinburgh. <http://bit.ly/eucon17>

Williams, T. **Interactive Visualization of Linked Data. [Best Paper, Data Visualization]** PHUSE EUConnect 2016; Barcelona. <http://bit.ly/eucon16>

Andersen, A and T. Williams. **'Dude, where's my graph?' RDF Data Cubes for Clinical Trials Data.** PHUSE EUConnect 2015; Vienna. <http://bit.ly/eucon15>

Williams, T. **A Primer on Converting Analysis Results Data to RDF Data Cubes using Free and Open Source Tools.** PHUSE EUConnect 2014; London. <http://bit.ly/eucon14>

Work Experience

2012 - present **Principal Statistical Solutions Analyst**

UCB Biosciences

- New technologies for analytics and data visualization

2008 - 2012 **Senior Applications Manager**

UCB Biosciences

- Systems selection, validation, and support for Global Statistical Programming.

2002 - 2008 **System Administrator**

PRA Health Sciences (now ICON)

- SAS systems administration, validation, deployment, international licensing
- Course development and instruction, support of 250+ programmers.

Previous **Principal SAS Programmer, Computer Systems Analyst, Research Associate (Epidemiology)**

Education

BSc., MSc. Biology

University of New Brunswick, Canada

President, UNB Biology Society