

# 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

 [LinkedDataTim@gmail.com](mailto:LinkedDataTim@gmail.com)  
 <https://www.linkedin.com/in/timpwilliams/>  
 [@NovasTaylor](https://twitter.com/NovasTaylor)

## 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.** 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.** 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