Tim Williams

Linked Data & Knowledge Graph architect and educator. F.A.I.R. data advocate. Over fifteen years of experience in the pharmaceutical industry, preceded by ten years in healthcare and environmental informatics.

Contact

✉ LinkedDataTim@gmail.com

in https://www.linkedin.com/in/timpwilliams/

🐦 @NovasTaylor

Skills

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

Software & Languages

- RDF & Property Graph
- OWL
- SPARQL
- SHACL
- Protégé
- R, R Shiny
- SAS
- Git

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. 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 data modeling, 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