

Tim Williams



Linked Data & Knowledge Graph architect and educator. [F.A.I.R.](#) data advocate. Over fifteen years of experience in the pharmaceutical industry and a previous ten in healthcare and environmental informatics.

Contact

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 [@NovasTaylor](#)

Skills

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

Software & Languages

- RDF
- OWL
- SPARQL
- Protégé
- R, R Shiny
- SAS
- D3JS

Award and Activities

2018 – present 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>

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

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

Project Co-lead: *Going Translational with Linked Data*. (2018-2019) <http://bit.ly/ctdasrdf>
Ontology-based modeling of clinical trials results data with conversion to RDF.

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

Contributor: *Unique Identifiers for Pharma* <http://bit.ly/UIDPharma>

Publications and Presentations

Presentation: **How Knowledge Graphs will Transform the Pharmaceutical Industry**. A PHUSE/Stardog webinar 2019. <http://bit.ly/KGTransPharma>

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

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

Presentation: **Semantic Web in the Pharmaceutical Industry: A Landscape of Challenges and Opportunities**. 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>

Williams, T. **A Guide to Deploying Subversion for Version Control of SAS Programs in the Pharmaceutical Industry. [Best Paper, Applications and Software Development]** PHUSE EUConnect 2013; Brussels. <http://bit.ly/eucon13>

Work Experience

2012 - present **Statistical Solutions Analyst**
UCB Biosciences

- New technologies for analytics and data visualization, including Knowledge Graph development (RDF, Neo4j, D3js), R, R Shiny, R Interest Group.

2008 - 2012 **Applications Manager**
UCB Biosciences

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

2002 - 2008 **System Administrator**
PRA Health Sciences

- SAS systems administration, validation, 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