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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Skills

Team Leadership
Project Management
Communications
Course Development & Instruction
Systems Validation

Software & Languages

- R, RShiny
- SAS
- Protégé
- RDF Triplestores
- RDF
- OWL
- SPARQL
- 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!* [[Github](#)]
An interactive, two-hour, introductory workshop to RDF Knowledge Graphs.

Project Co-lead: *Clinical Trials Data as RDF* [[Github](#)]
Ontology-based modeling of clinical trials results data (Study Data Tabulation Model) as RDF.

Project Co-lead: *RDF Data Cubes for Clinical Research & Development* (2016) [[Github](#)]

Contributor: *Unique Identifiers for Pharma* [[Github](#)]

Publications and Presentations

Presentation: **Toward F.A.I.R. Pharma. PhUSE Initiatives Past and Present.** Semantics@Roche 2019; Basel. [[slides](#)]

Presentation: **Knowledge Graphs for Pharma**. Pistoia Alliance, 2019. [[slides](#)]

Presentation: **Semantic Web in the Pharmaceutical Industry: A Landscape of Challenges and Opportunities**. SWAT4HCLS 2018; Antwerp. [[slides](#)]

Williams, T. **Overcoming Resistance to Technology Change: A Linked Data Perspective.** PhUSE EUConnect 2018; Frankfurt. [[paper](#)]

Oliva, A. and T. Williams. **Transforming Clinical Trials with Linked Data.** PhUSE USConnect 2018; Raleigh. [[paper](#)]

Williams, T. and A. Oliva. **Breaking the Mould: Clinical Trials Data as RDF**. PhUSE EUConnect 2017; Edinburgh. [[paper](#)]

Williams, T. **Interactive Visualization of Linked Data**. *[Best Paper, Data Visualization]* PhUSE EUConnect 2016; Barcelona. [[paper](#)]

Andersen, A and T. Williams. **'Dude, where's my graph?' RDF Data Cubes for Clinical Trials Data**. PhUSE EUConnect 2015; Vienna. [[paper](#)]

Williams, T. **A Primer on Converting Analysis Results Data to RDF Data Cubes using Free and Open Source Tools.** PhUSE EUConnect 2014; London. [[paper](#)]

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. [[paper](#)]

Work Experience

2012 - present	**Statistical Solutions Analyst** *UCB Biosciences* • New technologies for analytics and data visualization. • Business Lead: Validated R Studio and R Shiny platform deployment • Founder: UCB R Interest Group
2002 - 2008	**Applications Manager** *UCB Biosciences* • Systems selection, validation, and support for Global Statistical Programming. • Computerized systems validation and life cycle management. • Training and support for international programming teams.
	System Administrator *PRA Health Sciences* • 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