

# Community-based models for engaging researchers with research data.



**Connie Clare**

University of Nottingham, PhD student  
Intern @ TU Delft Library

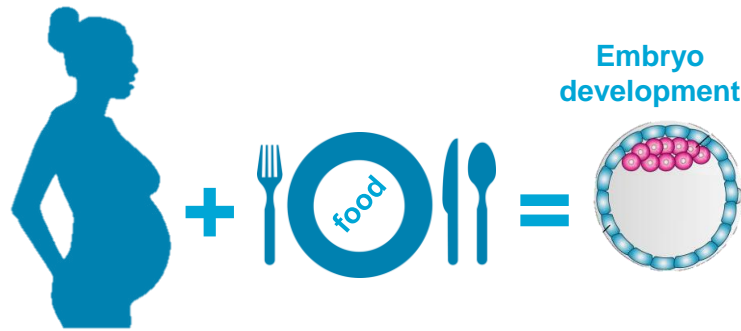
# About Me



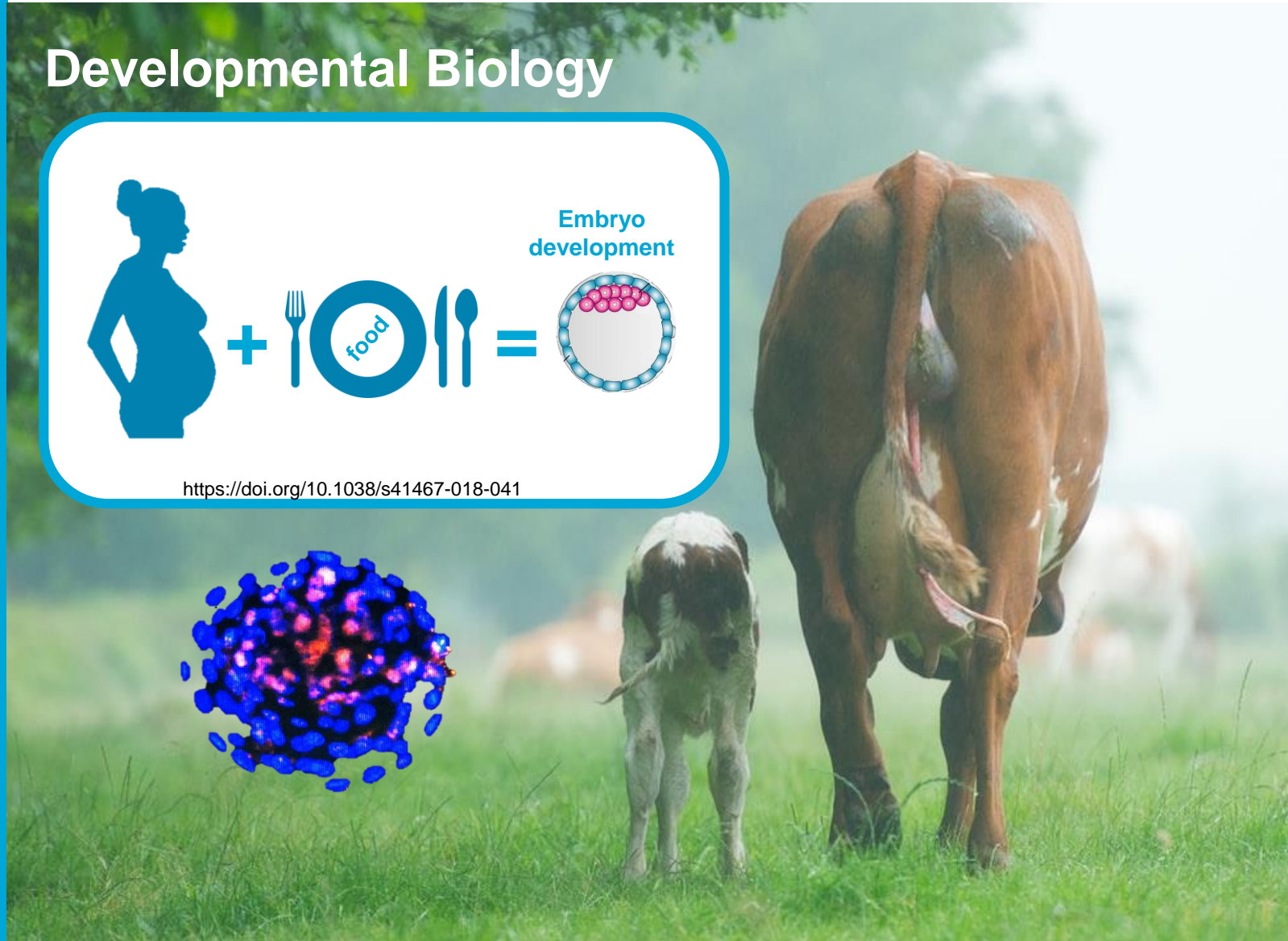
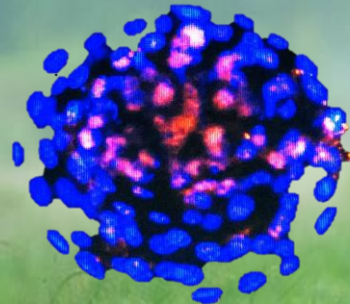
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Nottingham  
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## Developmental Biology



<https://doi.org/10.1038/s41467-018-041>



# #Scidata18



**Marta Teperek**  
Data Stewardship  
Coordinator



**Alastair Dunning**  
Head Research  
Data Services



**SPRINGER NATURE**

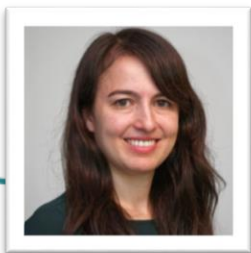


**#SCIDATA18**

# Data Stewards



**Heather Andrews**  
Aerospace  
Engineering



**Yasemin Turkyilmaz-  
van der Velden**  
Mechanical, Maritime and  
Materials Engineering



**Kees den Heijer**  
Civil Engineering and  
Geosciences



**Santosh  
Ilamparuthi**  
Electrical Engineering,  
Mathematics and  
Computer Science



**Marta Teperek**  
Data Stewardship  
Coordinator



**Nicolas Dintzner**  
Technology, Policy  
and Management



**Esther Plomp**  
Applied Sciences

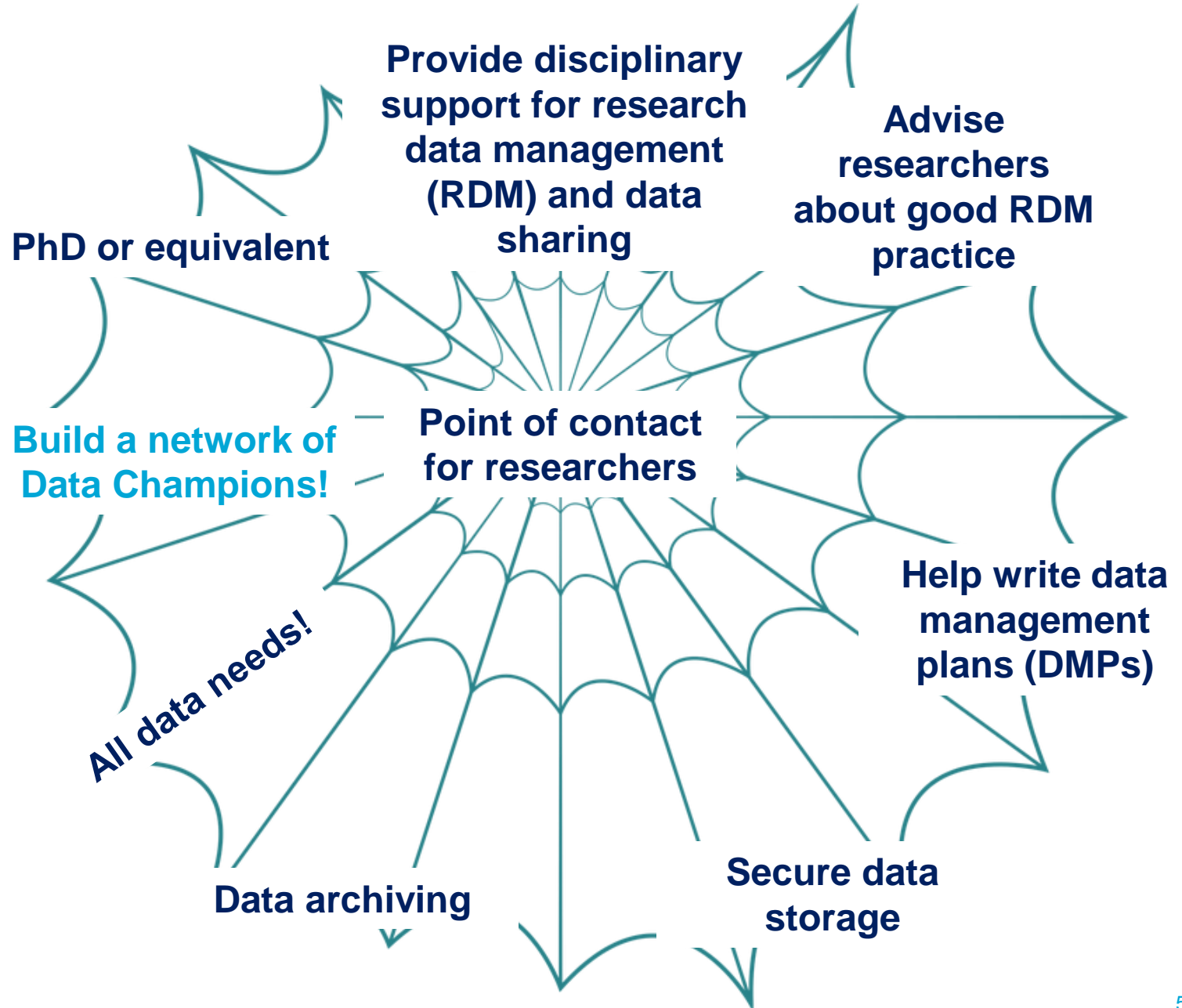


**Yan Wang**  
Architecture and the  
Built Environment




**Jeff Love**  
Industrial Design and  
Engineering

# What do Data Stewards do?



# What is a Data Champion?

## TU Delft Data Champion

*noun* **UK**  /'deɪ.tə/ /'tʃæm.pi.ən/

An individual who volunteers their discipline-specific expertise, promotes FAIR data principles and advocates proper research data management (RDM).

An individual who uses their passion for knowledge exchange and their desire to build a collaborative and researcher-led community to drive the uptake of good RDM within their faculties and departments.



# Promoting the work of the Data Champions.



# Engaging Data Champions

- Approach via email
- Arrange **one-to-one** interviews
- Write the article to **reward** and **recognise** their efforts and achievements
- Published to the **Open Working** blog...

# Data Champions

This page is dedicated to our [Data Champions](#) who provide local expertise and promote good research data management (RDM) within their departments and faculties at TU Delft.

What is their **research** about?

How do they **engage researchers** with research data?

How, when and why do they **share data**?  
How do they **mentor** others?



Illustration by Connie Clare

- [‘Helping researchers do IT.’](#) – Susan Branchett lends a helping hand with advanced information technology.
- [‘Switch gear! Drive the uptake of Open Science within your research team.’](#) – Joost de Winter and Pavlo Bazilinsky team up to talk Open Science.
- [‘Five W’s of Open Data.’](#) – Anneke Zuiderwijk talks about the ‘who, what, where, when and why’ of Open Data research.

What are their **motivations** for becoming **Data Champions**?

Why do they advocate for **proper RDM** and **Open Science**?

What are their **future goals** and **aspirations**?

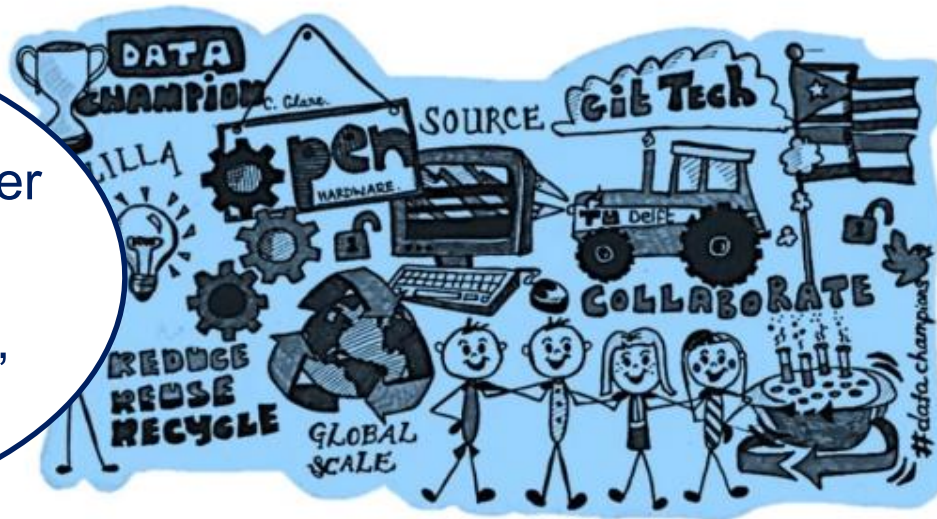
# José Carlos Urra Llanusa

JULY 3, 2019

moz://a

## Reduce, Reuse, Recycle knowledge: How open hardware can help to build a more sustainable future.

“People can work together to create a community; its important to engage with all kinds of people.”



Written and illustrated by Connie Clare



*The benefits of open hardware*

*José Carlos Urra Llanusa from the Faculty of Industrial Design and Engineering shares his vision of open hardware with TU Delft Library.*

Industrial and interaction designer from Cuba, José Carlos Urra Llanusa, recently joined our team of [Data Champions](#) at TU Delft to share his engineering and programming expertise. Here, he tells us more about his passion for using open hardware to promote sustainable development and to facilitate a circular economy where resources are not discarded but are repaired, improved and reused to reduce waste.

JULY 5, 2019

# Siân Jones

## Keep calm and go paperless: Electronic lab notebooks can improve your research.



“Once it becomes common practice, the long-term benefits significantly outweigh the initial work investment.”



Written and illustrated by Connie Clare

Postdoctoral researcher from the [Faculty of Civil Engineering and Geosciences](#), Dr Siân Jones, champions the use of electronic lab notebooks (ELNs) at TU Delft.

Physicist and [Data Champion](#), [Dr Siân Jones](#), has dedicated her research career to studying the [rheology of foam](#) at several European institutions. She currently works in the [Petroleum Engineering](#) section at TU Delft studying the industrial application of steam-foam floods at high temperatures and pressures for enhanced oil recovery. As an experienced bench scientist, Jones gives us her verdict on the use of electronic lab notebooks (ELNs) to promote good research data management and laboratory practice.

# Balázs Dukai

JULY 10, 2019

## The Changing Landscape of Open Geospatial Data.

# 3dfier

### 3D Registration of Buildings and Addresses

“Becoming a Data Champion has allowed me to connect my group with a diverse network with opportunity for collaboration.”

Written and illustrated by Connie Clare



“We can harness the power of existing open data” says [Data Champion, Balázs Dukai](#).

Software engineer and [Data Champion](#) from the [Faculty of Architecture and the Built Environment](#), [Balázs Dukai](#), specialises in the construction of geospatial datasets to generate 3D city models. A ‘3D city model’ is a three-dimensional (3D) digital representation of an urban area that depicts its landscape and architectural infrastructure. The geometry and structure of the terrain, roads, rivers and buildings are described by 3D geospatial data (i.e. coordinates, projections and transformations) for their contextual visualisation using computer modelling software.

# Victor Koppejan & Raúl Ortiz Merino



## Carve your niche with 'The Carpentries'

ed by s.aragon on 8 August 2019 - 9:09am

onnie Clare, TU Delft.

Data  
the Department of  
Victor Koppejan and  
Merino, to celebrate their  
entry

D student in  
Engineering.

the  
proteins from biological  
Industrial use using

ed bed adsorption. Koppejan employs open source computer simulation tools to **model the**  
**ics of fluid and particle flow in a fluidised bed** using the **Dutch National Super Computer**.

**Raúl Ortiz Merino** is a Postdoctoral researcher in **Industrial Microbiology**. He works within the field of comparative genomics to characterise microbial gene sequences of commercial relevance. After years spent training as a wet lab biochemist, Ortiz Merino made his transition to dry lab computational science and is now an



Illustration by Connie Clare.

Spread the word of good data and code management amongst a larger research community



# Natalia Romero Herrera

AUGUST 8, 2019

## Empowering people with data.

*Data Champion from the Faculty of Industrial Design and Engineering, Natalia Romero Herrera, explores innovative ways of giving data back to the user for social good.*

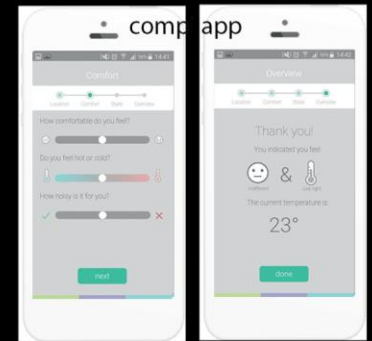
### MIXED METHODS TOOLS

“Rather than simply *taking* data from people, we can *give* data back to people to influence their actions.”

*– InterregNWE - Social housing*

*Self report:*

- Dial to measure thermal comfort
- Diary to report practices of comfort



*BOCS – Climate KIC – Office buildings*

*Sensor box to measure indoor climate  
Self-report app to measure comfort*

and application of user-centred design methods to understand people's daily life practices and, in particular, the impact of environmental and health issues.

As an active member of the [idStudioLab](#), Romero Herrera uses [living labs](#) to contextualise complex behavioural data. In a living lab, innovative technological applications and tools are designed, and tested by participants to determine how people engage with specific products and services. Romero Herrera's technological designs are 'experience-centred', meaning that they aim to improve user experience as a whole. Therefore, a key element of her research is to learn about the needs and values of users; to engage, empathise and empower them through data.



## Starting small and thinking big: A Quantum Tinkerer's quest to mentor Open Science

We hear from [Data Champion](#) and Associate Professor in [Quantum Nanoscience](#), [Anton Akhmerov](#), about his journey towards becoming an ambassador for Open Science at TU Delft.



Research Blog Group members Open positions Student projects



### I need your data, your code, and your DOI

Anton Akhmerov — 2019-01-05 15:00

### Integrating output in documentation with jupyter-sphinx



Anton Akhmerov [Follow](#)

May 30 · 3 min read

Written and illustrated by Connie Clare



An individual who volunteers their discipline-specific expertise, promotes FAIR data principles and advocates proper research data management.

An individual who uses their passion for knowledge exchange and their desire to build a collaborative and researcher-led community to drive the uptake of Open Science within their faculties and departments.

By definition, [Anton Akhmerov](#) leads by example as an outstanding TU Delft Data Champion.

“Sharing code increases the impact of such work, and makes it possible to work on topics as a community.”



# Anneke Zuidewijk

AUGUST 16, 2019

## Five W's of Open Data.

TU Delft library met Open Data Expert and [Data Champion](#), [Anneke Zuidewijk](#), to learn about the 'who, what, where, when and why' of Open Data.

“It's important to improve the ease of use of data infrastructures and to provide institutional training for using them.”



Written and illustrated by Connie Clare



Anneke Zuidewijk is a [Data Champion](#) working within the [Faculty of Technology, Policy and Management](#). As an Assistant Professor in the Department of [Engineering, Systems and Services](#), she has dedicated her academic career to investigating the complex rationale behind open data. In Zuidewijk's unique case, data sharing isn't just a research consideration, rather it's her research domain.

Zuidewijk believes that great value can be created through open data sharing and use and that it can be revolutionary for scientific advancement. Her mission is to develop theory for designing infrastructures and institutional arrangements that incentivize open data sharing so that it eventually becomes the standard rather than the exception.

AUGUST 19, 2019

# Switch gear! Drive the uptake of Open Science within your research team.

Associate Professor, [Joost de Winter](#), and Postdoctoral Researcher, [Pavlo Bazilinskyy](#), share their experience of working together on automated driving projects.

“For research to be robust, reliable and reproducible, it’s important to use a large and representative sample population.”

“Crowdsourcing draws thousands of respondents from all corners of the globe to give you more powerful scientific results.”



written and illustrate  
As a member of the [Automated Driving Robotics](#) team, Joost de Winter and his colleagues study how drivers, pedestrians, cyclists and other road users interact with automated vehicles. Their aim is to develop automated vehicles that adapt to the driver's state and intentions for safer transportation. Joost de Winter advocates Open Science and transparent working within his team to improve the validity and reproducibility of their research.



Postdoctoral researcher, [Pavlo Bazilinskyy](#), has been a valued member of de Winter's team since 2014 when he began his PhD. His doctoral research explored the use of auditory interfaces for human interaction with automated vehicles. Bazilinskyy received several prestigious awards for his doctoral work, including the European Young Researchers Award, MCAA Best Innovator Award and EMA Alumni Award. His current research focuses on how automated vehicles should communicate with human road users.

Both scientists recently joined our vibrant team of [Data Champions](#) to drive the uptake of Open Science amongst the research community of TU Delft.

# Susan Branchett

AUGUST 29, 2019

## Helping researchers do IT.

*"In the era of big data more researchers are dependent on digital technology. I want to help researchers find the appropriate tool for the job," says [Data Champion](#), [Susan Branchett](#).*

**"Contact me if you need IT support in your faculty!"**

"In the era of big data more researchers are dependent on digital technology. I want to help researchers find the appropriate tool for the job."



Written and illustrated by [Annie Clare](#)



[Susan Branchett](#) has worked at the interface between science and software for several years. Since obtaining her PhD in Computational Quantum Mechanics at [University College London](#), she has assumed various professional positions to provide IT services and software support. Following her post as Director of Business Development and Operations at the [Netherlands eScience Center](#), she joined TU Delft's [IT Innovation Department](#) two years ago to share her expertise in Research Data Innovation.

### Demand for digitalisation

Branchett aims to help researchers use IT. "In the era of big data researchers are becoming more dependent on software,



SEPTEMBER 2, 2019

# How to build a community of Data Champions: Six Steps to Success.

*Inspired by the [University of Cambridge Data Champion programme](#), we have built a community of [Data Champions](#) to advocate for good research data management (RDM) practice within all university faculties at TU Delft. Currently, we have 47 active members and the number is increasing. Here, we present a 'toolkit' to help you build a community of Data Champions within your academic institution.*

## The toolkit: Six Steps to Success



Written and illustrated by Connie Clare

<https://openworking.wordpress.com/2019/09/02/how-to-build-a-community-of-data-champions-six-steps-to-success/>



# Engaging Researchers with Data Management The Cookbook

CONNIE CLARE, MARIA CRUZ, ELLI PAPADOPOULOU, JAMES SAVAGE,  
MARTA TEPEREK, YAN WANG, IZA WITKOWSKA, AND JOANNE YEOMANS



*Following in the footsteps of the [Open Science Training Handbook](#), we share our book sprint success story and some ideas to help with your collaborative writing.*

On 10th July our multidisciplinary team of dedicated volunteers checked-in at a hotel in the Hague, Netherlands, to participate in a three-day book sprint. For those unfamiliar with the concept, a 'book sprint' is an exercise of writing a book collaboratively in a short period of time, usually less than a week. Yet, together we learned that a book sprint is much more than a mere writing exercise; for us it was a truly rewarding and memorable experience that we can all reflect back on with pride. Here, we share our book sprint success story and reasons for why we advocate collaborative writing.

#### ***Book sprint motivation***

# 'Open Science' opens doors: How #Scidata18 helped me unlock career opportunities

As a winner of last year's Early Career Researcher writing competition, I've been invited to share my story of how attending #Scidata18 enabled me to unlock exciting career opportunities and further my professional development. Here are some 'lessons learned' that I hope will inspire you!



By [Connie Clare](#) on Aug 06, 2019 5 3

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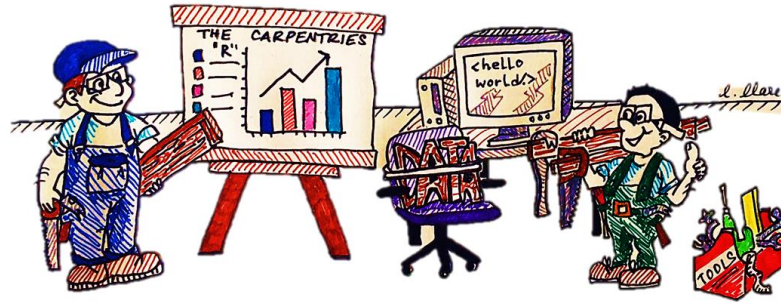
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Illustrated by Connie Clare

<https://researchdata.springernature.com/users/206394-connie-clare/posts/51963-open-science-opens-doors-how-scidata18-helped-me-unlock-career-opportunities>



# Thank you for listening!

