



PHILIP MORRIS  
INTERNATIONAL

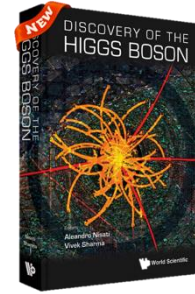
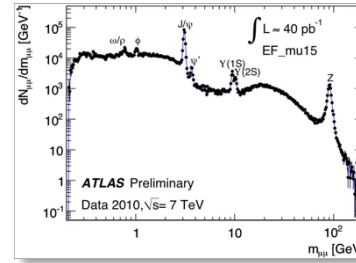
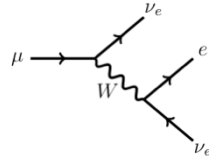
Designing a Smoke-Free Future

# Rikard Sandström

## CERN Alumni - Moving Out of Academia to Big Data

Council Chamber (CERN)  
21.09.2018

# Career in Physics



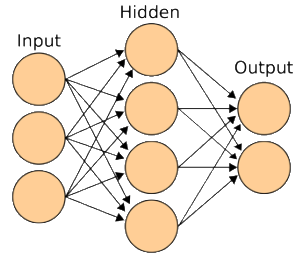
CERN Summer Student  
(ATLAS)

PhD Experimental Physics,  
Geneva University

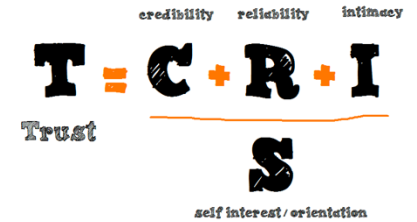
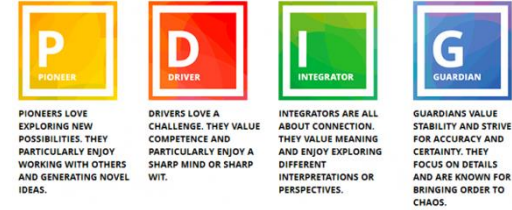
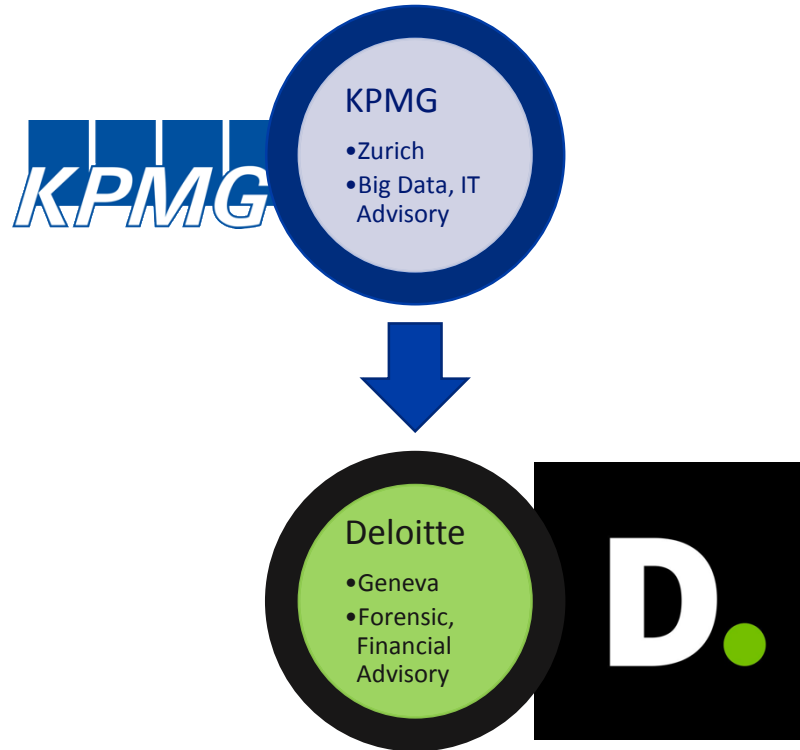
Post-doc ATLAS, Max Planck  
Insitut

MSc in Theoretical Physics,  
Gothenburg University

Post-doc ATLAS, NIKHEF



# Career in Consulting



# What I Do Now

Enterprise Data Science Lead @ Philip Morris International (Lausanne)



## Data Science @ PMI in 2017

+100'000 lines of analytical code written (master branches only)

~2'000 data scientist candidates screened

+600 commits to master branches


+80 screening calls with data scientist candidates

+30 on-site interviews with data scientist candidates


+10 Proof of Concepts (Hypotheses) built

3 Data Science Labs bootstrapped in LSN, AMS & TYO


1 Data Ocean platform for Data Science



Every decision. Every day. Driven by data.



A very strong team following data science and big data best practices



Enterprise Analytics & Data consists of multiple roles and functions

Skills	Data Scientist	Data Engineer	DevOps
Requirements Gathering	+++	++	+
Business know-how	++++	++	++
Solution Architecture	+	++++	+++
Data modeling	+	++++	++
Statistics	++++	++	+
Programming	+++	++++	+++
Big Data Technology	++	++++	++++
Continuous Integration & Continuous Delivery	++	+++	++++
Communication and presentation skills	++++	++	++
Interpersonal skills	++++	++++	++++

Thank you

