

# Industrial PhD - lesson learned



**Tomasz Stanisławek**

MI2, 30.05.2022


# About me - before PhD

## Business experience (started in 2009)

- 6 projects from start
- 3 projects as a new joiner


## Research (started in 2011)

- 5 papers about Application


**APPLICA.AI**  
8 yrs 3 mos  
Warsaw, Masovian District, Poland

- Senior Data Scientist**  
2017 - Present · 5 yrs 3 mos  
Helping companies to robotize they business processes involving unstructured data (classification and information extraction from text documents) / Team leading ...see more
- Research Specialist / Software Developer**  
Jan 2014 - Present · 8 yrs 3 mos  
I'm responsible for architecture and implementation of new applications connecting with natural language processing ...see more

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**Research Specialist / Software Developer**  
Wasat Sp. z o.o.  
Dec 2014 - Dec 2015 · 1 yr 1 mo  
Warsaw, Masovian District, Poland  
I built two applications in the R&D field for a company (one was related to indoor navigation and the second was related to the topic of field irrigation) ...see more

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**Research Specialist / Software Developer / Java**  
Information Processing Institute  
Apr 2011 - Dec 2013 · 2 yrs 9 mos  
Warsaw, Masovian District, Poland  
Main responsibilities:  
\* junior/mid java programmer (correcting bugs + adding new functionalities) ...see more

### [A recommender system of reviewers and experts in reviewing problems](#)

J Protasiewicz, W Pedrycz, M Kozłowski, S Dadas, T Stanisławek, ...  
Knowledge-Based Systems 106, 164-178

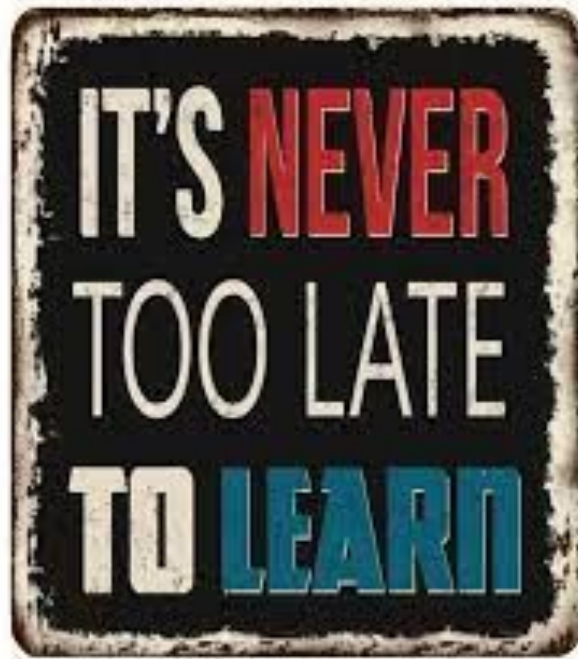
### [Influence of human body on radio signal strength indicator readings in indoor positioning systems](#)

J Rapiński, D Zinkiewicz, T Stanisławek  
Technical Sciences/University of Warmia and Mazury in Olsztyn, 117--127

### [Multilingual and hierarchical classification of large datasets of scientific publications](#)

J Protasiewicz, T Stanisławek, S Dadas  
2015 IEEE International Conference on Systems, Man, and Cybernetics, 1670-1675

# Lesson learned



# How it started?



Hey!  
Do you want to do a PhD?

Great!  
You have a two weeks for  
choosing a topic and  
writing a plan for 4 year  
Industrial PhD.

It will be **the Przemysław  
Biecek**, super star  
researcher at MINI faculty!

You'll see, you'll love him!

Hey!  
Yes, I've always dreamed about it!

Hmmm... OK :|  
But I need the supervisor,  
who will it be?

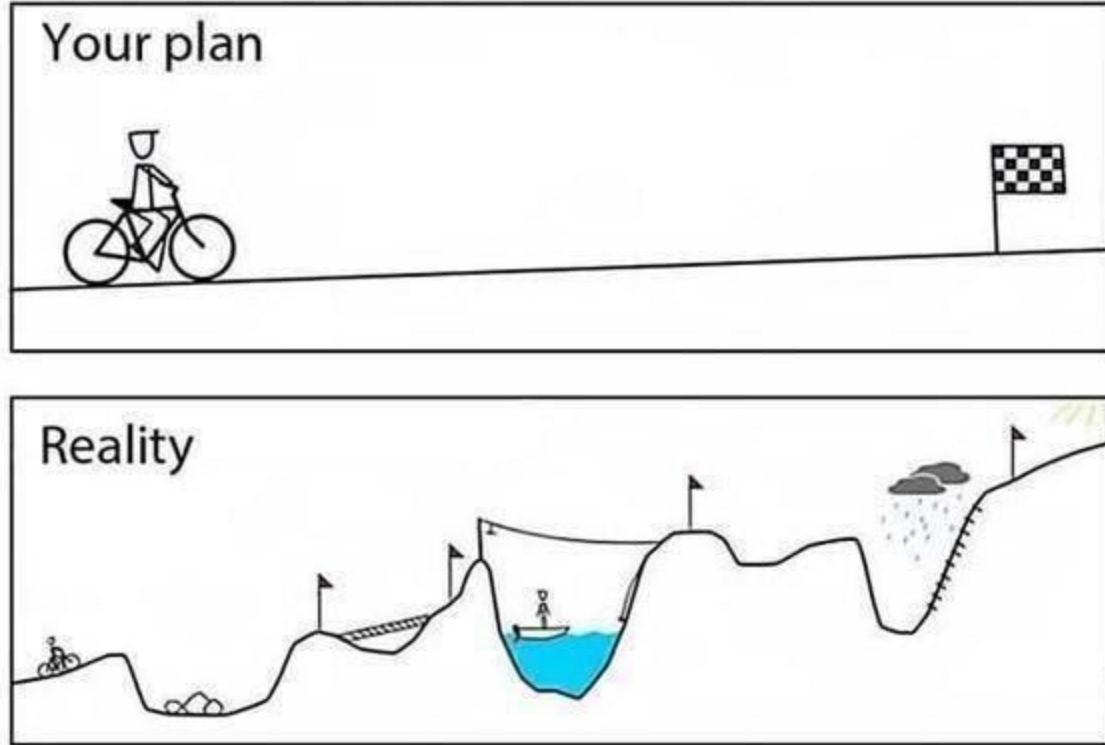


# Lesson learned



**Choose you supervisor wisely (I was lucky)!**

# PhD journey - plan vs reality



# Lesson learned

**“If you fail to plan,  
you are planning to  
fail.”**

*- Benjamin Franklin*







# Lesson learned



# Lesson learned



# Lesson learned



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# Lesson learned



It's hard to reconcile work and university!

# PhD results

LAMBERT: Layout-Aware Language Modeling for Information Extraction Ł Garncarek, R Powalski, T Stanisławek, B Topolski, P Halama, M Turski, ... International Conference on Document Analysis and Recognition, 532-547	35	2021
Kleister: Key Information Extraction Datasets Involving Long Documents with Complex Layouts T Stanisławek, F Graliński, A Wróblewska, D Lipiński, A Kaliska, ... International Conference on Document Analysis and Recognition, 564-579	22 *	2021
DUE: End-to-End Document Understanding Benchmark Ł Borchmann, M Pietruszka, T Stanisławek, D Jurkiewicz, M Turski, ... Thirty-fifth Conference on Neural Information Processing Systems Datasets ...		2021
UniCase--Rethinking Casing in Language Models R Powalski, T Stanisławek arXiv preprint arXiv:2010.11936	2	2020
Named Entity Recognition--Is there a glass ceiling? T Stanisławek, A Wróblewska, A Wójcicka, D Ziembicki, P Biecek arXiv preprint arXiv:1910.02403	14	2019
GEval: Tool for Debugging NLP Datasets and Models F Gralinski, A Wróblewska, T Stanisławek, K Grabowski, T Górecki Proceedings of the 2019 ACL Workshop BlackboxNLP: Analyzing and Interpreting ...	9	2019
Robotic Process Automation of Unstructured Data with Machine Learning A Wróblewska, T Stanisławek, B Prus-Zajączkowski, Ł Garncarek Annals of Computer Science and Information Systems 16, 9-16	18	2018



# Lesson learned

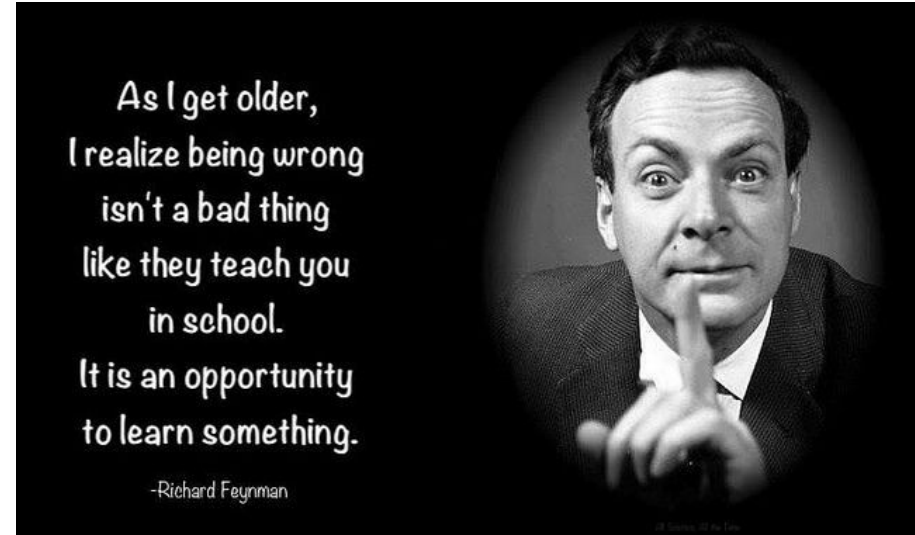
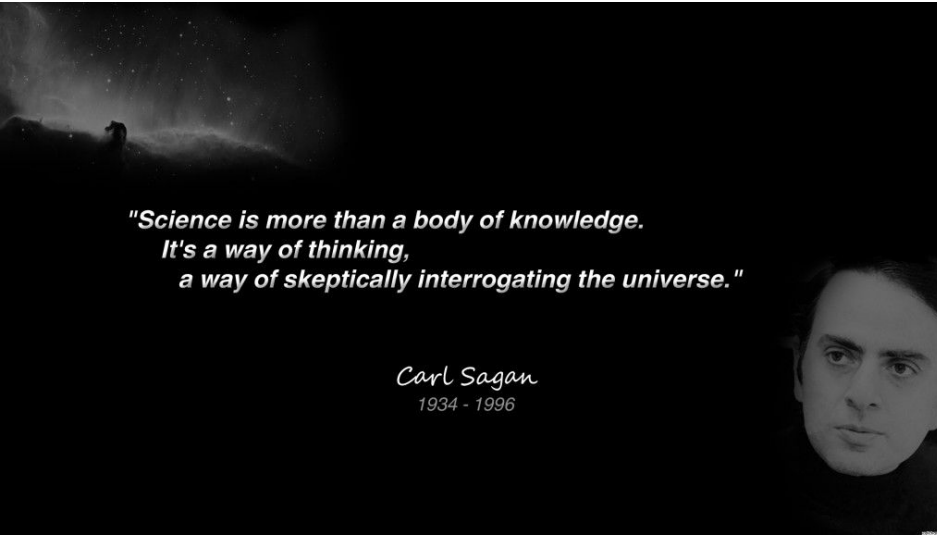
## QUALITY MATTERS



# Lesson learned



# General advice



1. Learn from the best to be the best!
2. Question everything!
3. Make sense of everything you are doing!

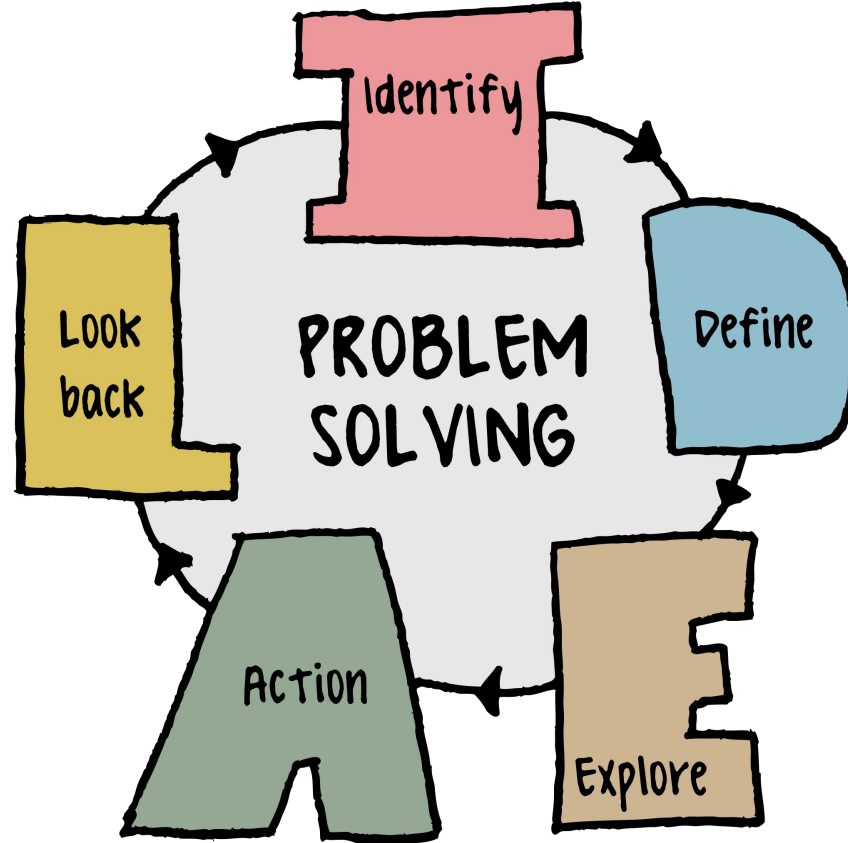


# What next?

When you announce to your family that you want to go for a Postdoc after spending 6 years on your PhD



# What next?





**I want you to be happier than I was!**