

# Jędrzej Świeżewski

DATA SCIENTIST · PHD · THEORETICAL PHYSICS

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## Personal details

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residence Warsaw, Poland

date of birth 29 May 1987

civil status married, two children

## About me

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I am excited about how diverse goals can be reached with simple ideas in machine learning.

I believe data and artificial intelligence technologies can not only bring change to various industries, but also be an accelerator of science including ecological studies.

## Experience

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### Machine Learning Lead at Appsilon, Warsaw

*since Jan. 2021*

- I lead a growing team of Machine Learning experts, working on exciting projects with clients and partners from various industries and academia.

### Senior Data Scientist at Appsilon, Warsaw

*Oct. 2019 – Dec. 2020*

- Working with customers and diving into research subjects. Focused primarily on computer vision applications. Trained models, transformed data into insights and shared them with clients.

### Data Scientist at Itility, Eindhoven

*Sep. 2017 – Jul. 2019*

- Finding insight in data by munging it, and framing it in models and dashboards. Using mostly Splunk, Python and R.
- Started through Young Professional Program – finished with highest score

## Education

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### PhD in Theoretical Physics

*Nov. 2016*

- Faculty of Physics, University of Warsaw

### MSc in Physics, Summa Cum Laude

*Jun. 2011*

- Inter-Faculty Individual Studies in Mathematics and Natural Sciences, University of Warsaw

## Skills

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### Technical

Python, R, Splunk, machine learning, data science, data wrangling, data visualization

### Analytic problem solving

Both as a data scientist and previously as a researcher, every day I have practiced dealing with complex puzzles having no obvious solution. I have learned to structure them and solve them piece by piece.

### Learning difficult subjects fast

Being a theoretical physicist and then rapidly becoming a machine learning developer, I have extensively practiced learning difficult subjects thoroughly at a fast pace.

### Sharp on details

When faced with new subjects I quickly identify the key structures and recognize flaws. I enjoy debugging my colleagues' code and 3 of my publications were built on shortcomings spotted in the reasoning or mathematics of other authors.

### Collaborating in a group with distributed expertise

Many of the projects I have worked on required an orchestrated effort of experts in various domains. I value my ability to foster efficient exchange in such situations leading to fruitful cooperation.

### Mathematics

I have worked in a mathematically heavy part of theoretical physics, which required expertise in subjects ranging from analysis to differential geometry. This background allows me to grasp the deeper layers of data science with ease.

### Consultancy skills

I pay close attention to tailoring my message to the audience. I often work in close contact with customer employees and previously have presented my scientific results during multiple oral presentations (technical and broad audience).

## Science record

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- Details in my [academic CV](#) or on my [website](#)

### 10 papers in peer-reviewed journals

*MEE, JHEP, PLB, PRD & CQG*

- Applications of computer vision models in ecological studies
- Canonical approaches to classical and quantum gravity (loop quantum gravity and AdS/CFT)

*total Impact Factor >40*

### 10+ talks at conferences and several invited seminars

### Grants and awards

- **Principal Investigator** of Preludium grant funded by Polish National Science Centre (2014-2016)
- **Joanna z Gwiżdżów and Jerzy Glazer's prize** for the best MSc thesis in the Faculty of Physics, University of Warsaw (2012)
- Selection of an article to the **IOP Select** (chosen by editors for novelty, significance and potential impact on future research) (2012)
- Scholarship for the **best PhD students** (academic years 2013/14, 2014/15, 2015/16)
- **Increase of scholarship** from subject-specific subsidy for proquality tasks (academic years 2011/12, 2013/14, 2014/15, 2015/16)

### Teaching

- 6 courses in mathematics (introductory) and physics (classical mechanics and special relativity) at the University of Warsaw

## Certifications

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### Machine Learning Specialization by University of Washington on Coursera

- Clustering & Retrieval
- Classification
- Regression
- Foundations: A case study approach

*Aug. 2017*

*Jul. 2017*

*Jun. 2017*

*Jun. 2017*

### Certificate of Proficiency in English issued by University of Cambridge

*Jun. 2008*

- level C2

## Languages

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**Human** Polish (native), English (fluent – C2, CPE from British Council), Dutch (beginner – A2)

**Computer** Python, R, bash

## Hobbies

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skiing and ice-skating (see my [website](#) for samples)