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- **Machine Learning & MLOps** Experience in designing, building and productionizing ML models and pipelines. Mostly in the area of **Recommender Systems**.
- **Data Science** Experience in applying Machine Learning and Statistics to solve business problems.
- **Data Analytics & Data Engineering** Experience in delivering actionable insights for product development and building data pipelines.
- **Software Engineering** On one hand experience in building highly performance applications in Rust and C++. On the other hand, experience in buliding web apps (full-stack).
- **Management** Tech and Team Lead experience managing and mentoring other team members.
- **Research in Machine Learning and Data Science** Experience in leading Machine Learning and Data Science research. Co-author of three ML and DS publications and one patent.
- **Teaching** Experience of teaching and explaining Data Science, Data Management, Machine Learning and Statistics concepts for both, technical and non-technical audiences.
- Proficiency with programming languages like Python, Scala, R, SQL, Rust, C++.
- Proficiency with tools like Spark, PyTorch, TensorFlow, scikit-learn, Hive, Tableau.
- Experience with AWS, Docker, Kubernetes, JavaScript and Ruby.
- **PhD** in Mathematics and more than 8 years of experience as researcher.
- **Languages** Fluent: English, Spanish • Native: Polish • Basic: Russian



Meta • Barcelona • Spain

February 2022–present

Software Engineer, Machine Learning • Working on WhatsApp's protocol tooling mostly using **Rust** and **C++**.



Koa Health (ex Telefonica Alpha) • Barcelona • Spain

March 2019–February 2022

Head of Personalization • previously AI Team Lead, Senior Data Scientist • Koa Health (founded by Telefonica) is an innovation facility created to build projects which improve people's mental health and wellbeing. I lead a team that from scratch has built ML service that train and deliver ML solutions for Koa's products, like, for example, personalized recommendations for Foundations' users. Our team also provide product insights, build data pipelines, design and analyze Randomized Controlled Trials and AB Tests. We also write articles and patents. I do both, hands-on work and manage the team. Tools used include: **Python, Scala, Tensorflow, Spark, Athena, Docker, Kubernetes, AWS...**



Schibsted • Barcelona • Spain

February 2018–March 2019

Staff Insight Analyst • Schibsted is an international media group that is one of the world's leading online classified ads businesses. I worked with Messaging Team helping them with integrating Machine Learning/Deep Learning products, setting up experiments and providing analysis. I also designed, developed and helped putting in production NLP models. Tools used include: **Spark, Scala, Python, Amazon Redshift, SQL, Tableau, AWS...**



SCRM/Lidl • Barcelona • Spain

February 2017–February 2018

Senior Data Scientist and Team Lead • I worked as Data Scientist Team Lead in Lidl Plus project, a project that changes customer service and the way people do shopping in the chain of more than 10,000 Lidl supermarkets across Europe. I led a team that was setting up hypothesis-driven decision-making environment, creating recommender systems and forecasting demand. Tools used include: **Python, Hive, R, Azure...**



King (Activision/Blizzard) • Barcelona • Spain

September 2015–February 2017

Data Scientist • King is a successful mobile game company with around 300 million unique players every month. I participated in developing and improving Bubble Witch 2 and 3 games. My role was to perform analysis of complex scenarios, design experiments (that includes *AB Tests*), balance *Quest's*, *Liveops' and levels' rewards* and tune their difficulties, create predictive models and develop analysis strategies. Tools used include: **Python, R, Hive, SQL**.



Universitat de Barcelona – IL3 • Barcelona • Spain

2019 – 2021

Creator and Teacher of Online Course in Advanced Analytics



Universitat Politècnica de Catalunya • Barcelona • Spain

2017 – 2021

Visiting Lecturer • Teaching courses on Deep Learning, Causality and Big Data Management for Master in Statistics and Operations Research (MESIO) UPC-UB.



KSchool • Barcelona • Spain

Jan 2019 – 2020

Teaching Spark and Machine Learning courses for Master in Data Science



Oxfam Intermón • Barcelona • Spain

April–September 2015

Voluntary Work for Unidad de Monitoreo y Evaluación de Campañas • Creating web application that analyzes and visualize Oxfam Intermón campaigns on Twitter. Tools used include: **R**



Barcelona Data Science and Machine Learning Meetup • Barcelona • Spain

2015 – present

Co-organizer of the meetup Barcelona Data Science and Machine Learning Meetup



Clacktion • Barcelona • Spain

January–April 2015

SEM Technologist • Creating AdWords Campaigns. Developing software for automated control and reports in Python (Django).



Soluciones de Gestión y Apoyo a Empresas S.L. • Zaragoza • Spain

Aug 2013–Dec 2014

Mathematical modelling in electric engineering, • Developing web apps and reports related to electrical and logistic projects in Angola. Writing, typesetting, programming HTML5 apps for engineering journal *Soluções*. Tools used include: Ruby (RoR), JavaScript, Python, Matlab, \LaTeX .

Ph.D. in Dynamical Systems (Maths) Warsaw University of Technology • Warsaw • Poland 2000–2005

M.Sc. in Mathematics Education University of Białystok • Białystok • Poland 1997–1999

Coursera/edX/Udacity/Udemy 2012–present

Deep Reinforcement Learning Nanograde, Deep Learning Nanograde, Data Science Specialization, Functional Programming in Scala, AWS Solution Architect, Machine Learning, Statistical Learning, DB Introduction to Databases, Software as a Service, Programming Languages, Computational Finance and Financial Econometrics ...



Universidad Católica del Norte • Antofagasta • Chile

2005–2013

Associate Professor • Mathematical Research in Dynamical Systems and Ergodic Theory: a book and articles written, participation in international and national grands, long and short term visits in other research institutions, active participation in mathematical congresses and workshops. Teaching: graduate/undergraduate courses, thesis supervision (PhD, MSc, Bachelor). Administration: Member of Mathematical Graduate Studies Committee.



University of North Texas • Denton • USA

Jan–Jun 2009, Feb–May 2007, Sep–Dec 2003

Visiting Professor • Research on Dynamical Systems, taught undergraduate courses, for example, *Probability Models*

Polish Academy of Sciences • Warsaw • Poland

2004–2005

Assistant Professor • Research position.

DeLTA UCN • Antofagasta • Chile

2010–2013

Professor • Working with socially disadvantaged gifted students, course for teachers about new technologies

Université Lille 1 • Lille • France

September–November 2010

Visiting Professor • research on Dynamical Systems

University of Warwick • Coventry • UK

April–July 2003

Marie Curie Scholarship • Research on Dynamical Systems

Fac. of Mathematics and Physics, University of Białystok • Białystok • Poland

1998–2000

Assistant Professor • taught graduate and undergraduate courses

Co-author of the **book** *Distance Expanding Random Mappings, Thermodynamical Formalism, Gibbs Measures and Fractal Geometry Lecture Notes in Mathematics* Springer 2011 (with V. Mayer and M. Urbański)

Author of **articles** in mathematical journals that include *Mathematical Proceedings of the Cambridge Philosophical Society, Fundamenta Mathematicae, Indagationes Mathematicae* etc.

Active participation in international research **grants** financed by European Union, Chile or Poland

Talks at international **conferences and workshops** in USA, Germany, Poland, Chile, Bolivia

Visiting universities and **receiving visits** from USA, France, Poland, Chile

Member of Organising Committee of international and national conferences in USA, Chile, Poland, Bolivia

Education

Academic Experience