

Jan-Benedikt Jagusch

Department of Computer Science

PROFILE

Master student with strong background in data science and machine learning, looking for PhD opportunities in the field of artificial intelligence with preferred focus on computer vision and reinforcement learning.

PERSONAL INFORMATION

Name:	Jan-Benedikt Jagusch
Current Position:	Master Student
Date of Birth:	05/25/1994
Place of Birth:	Offenbach am Main, Germany
Nationality:	German
Address:	Friedrich-Naumann-Straße 6, 63456 Hanau, Germany
Mobile:	+351 939471827
E-Mail:	m2016022@novaims.unl.pt
Skype:	jan-benedikt-jagusch@outlook.de
LinkedIn:	linkedin.com/in/jan-benedikt-jagusch
GitHub:	github.com/jbj2505

EDUCATION

09/2016 – 08/2018

Master of Science – Information Management

Nova Information Management School

Lisbon, Portugal

Coursework: *Business Intelligence, Data Mining, Statistics, Data Analysis, Time Series Analysis, Decision Support Systems*

Thesis: *Evolving Topology and Weight of Artificial Neural Networks with Geometric Semantic Genetic Programming*

Advisors: *Mauro Castelli, Ivo Gonçalves*

Grade Point Average: 4.0

10/2013 – 09/2016

Bachelor of Science – International Management for Business and IT

Cooperative State University Mannheim

Mannheim, Germany

Coursework: *Java Programming, Databases, Distributed Systems, Statistics, Econometrics, Information Management, Operations Research, Finance*

Thesis: *Optimization of Distribution Chains in Outbound Logistics*

Advisor: *Thomas Schuster*

Exchange Program: *University of Tennessee, Knoxville, Tennessee, USA*

Grade Point Average: 3.7

RESEARCH/TEACHING EXPERIENCE

06/2017 – Present

Research Assistant

Nova Information Management School
Lisbon, Portugal

Analyzing the performance of Topology and Weight Evolving Artificial Neural Networks (TWEANN) in combination with Geometric Semantic Genetic Programming (GSGP) together with Mauro Castelli and Ivo Gonçalves. Designing benchmark experiments and implementing all algorithms under study in central Java framework. Future research will deal with applying TWEANN and GSGP to computer vision tasks.

10/2017 – Present

Teaching Assistant

Nova Information Management School
Lisbon, Portugal

Supporting the coordination of the Decision Support Systems class, which deals with optimization algorithms, such as bio-inspired machine learning techniques and artificial neural networks, together with Mauro Castelli. Responsible for designing, supervising and reviewing mid-term and final examination.

08/2013 – 09/2016

Private Tutor

Hanau, Germany

Private tutor for mathematics. Preparing students for final high-school examination, university exams and standardized tests.

PROFESSIONAL HISTORY

07/2017 – Present

Data Scientist

Data Science for Social Good
Lisbon, Portugal

Developing and implementing predictive model for long-term-unemployment, based on social service data in collaboration with Portuguese municipality.

10/2016 – Present

Data Scientist

Nova Analytics Group
Lisbon, Portugal

09/2017 – 11/2017

Designing predictive model for classifying diabetic patients in Brazil, based on national health survey data.

03/2017 – 07/2017

Developing and implementing model for predicting matching-rate between job applicant and job offer, based on qualifications and requirements in collaboration with Portuguese job platform.

09/2013 – 09/2016

Corporate Student

Evonik Industries AG
Hanau, Germany

07/2016 – 09/2016

Building a predictive model for analyzing nutritional components of feed, based on near-infrared spectroscopy

01/2016 – 03/2016

Building a model for evaluating distribution chains, based on provided service and incurred cost.

07/2015 – 09/2015

Developing tailored customer relationship management software.

01/2015 – 03/2015

Collecting, analyzing and visualizing latency data of corporate intranet.

PUBLICATIONS

Master Thesis	Castelli, M., Gonçalves, I. and Jagusch, J. (2018). Evolving Weight and Topology of Artificial Neuron Networks with Geometric Semantic Genetic Programming. The Genetic and Evolutionary Computation Conference.
Bachelor Thesis	Jagusch, J. (2016). Optimization of Distribution Chains in Outbound Logistics.

PRESENTATIONS

11/2017	Predicting Diabetes in Brazil Queen's International Innovation Challenge Toronto, Canada <i>Presenting a novel algorithm for predicting diabetes in Brazil, based on national health survey data.</i>
11/2016	Google Flu Trends in a Nutshell Science Slam Bochum, Germany <i>Presenting the theory behind the Google Flu Trends algorithm at scientific pitch competition.</i>

HONORS & AWARDS

11/2017	Queen's International Innovation Challenge 4 th Place Queen's University <i>Data analytics challenge with focus on food security and sustainability. We developed a predictive model for classifying diabetic patients in Brazil, based on national health survey data. Amongst more than 100 teams, we were invited to the finale in Toronto, Canada.</i> Prize: 3,000 CAD (2,400 USD)
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09/2017

Data Mining Award

Top 5

Nova Information Management School

Award for finishing the Data Mining 2 class as one of the top 5 students.

08/2017

Hack4Munich

2nd Place

Staufenbiel Institut

Innovation competition in the field of Internet of Things. We presented the concept of intelligent beer glasses for optimizing supply at the Oktoberfest.

Prize: 1,000 EUR (1,200 USD)

02/2017

Senacor Case Challenge

Finalist

Senacor Technologies AG

Consulting challenge in the area of IT services. As one of three teams, we were invited to the finale in St. Gallen, Switzerland.

10/2016

ECTS Grade A

Laureate

European Commission

Award for completing the Bachelor studies in International Management for Business and IT with outstanding performance.

07/2013

DMV-Abiturpreis Mathematik

Laureate

German Mathematical Society

Award for passing the final high-school examination in the area of mathematics with outstanding result.

FELLOWSHIPS

09/2016 – 03/2018

Evonik Stipendium

Evonik Industries AG

Corporate scholarship for studying Information Management at the Nova Information Management School.

08/2014 – 12/2014

Baden-Württemberg Stipendium

Baden-Württemberg Stiftung gGmbH

Scholarship for studying abroad at the University of Tennessee.

EXTRACURRICULAR ACTIVITIES

10/2016 – Present

Co-Founder and President

Nova Analytics Group
Lisbon, Portugal

Coordinating student association in the area of data science and machine learning. The group has been successful in various international analytics challenges and has provided data science services to Portuguese conglomerates and start-ups.

07/2017 – Present

Technical Lead

Data Science for Social Good
Lisbon, Portugal

Volunteering as technical lead in a fellowship that aims to train aspiring data scientists to work on data mining, machine learning, big data, and data science projects with social impact.

SKILLS & CERTIFICATIONS

Languages

German	Mother Tongue
English	C2
Spanish	B2
Portuguese	B1

Computer Skills

R	Excellent Knowledge
Java	Excellent Knowledge
SQL	Excellent Knowledge
Python	Good Knowledge
Power BI	Good Knowledge
SAS	Good Knowledge

TOEFL **116/120**

Reading	30/30
Listening	30/30
Speaking	30/30
Writing	26/30

GRE **321/340**

Verbal Reasoning	153/170	61 st Percentile
Quantitative Reasoning	168/170	94 th Percentile
Analytical Writing	3.5	42 nd Percentile