

First Name: Sebastian-Adrian

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Student at Universitatea „Alexandru Ioan Cuza” din Iași

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This resume was automatically generated from:

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Summary

Experience

Teaching Collaborator at Faculty of Computer Science, Alexandru Ioan Cuza University of Iasi

February 2023 -

'Numerical Calculus', BSc, 3rd year, 2nd term, two laboratories/
groups of students

Applied Science Intern at Amazon

September 2022 - December 2022

Organization: Product Safety and Compliance (PSC Tech)

I constructed a baseline model that creates a 3D representation
from multi-view data: grayscale and RGB images and point clouds.

Two subproblems investigated are:

- linking the 3D points in the point clouds to the 2D image pixels.

- salient object detection: we used a model called "TRACER"; we
fine-tuned it with our labeled dataset.

Technologies: 3D software (MeshLab), Python (PyTorch, Jupyter
Notebook), AWS EC2 (deploy code from PyCharm directly to EC2),
Sagemaker (Labeling job, Training job), S3

Java Software Engineer Intern at accesa.eu

July 2022 - September 2022

I worked on a team of 7 Java interns with 4 mentors using the
Agile methodology. We created a REST API for a low-code/no-
code platform for data science, which supported classification and
regression pipelines (data source, transformations, predictions) for
tabular data. The ML code was run in Python.

Technologies: Java, Spring, Databases (Spring Data, Liquibase), Git, Docker (compose), Google Cloud (BigQuery), Python, Jupyter Lab

**Teaching Collaborator at Faculty of Computer Science,
Alexandru Ioan Cuza University of Iasi**

October 2021 - May 2022

'Machine Learning', BSc, 3rd year, 1st term, four seminars/groups of students

'Numerical Calculus', BSc, 3rd year, 2nd term, two laboratories/groups of students

Applied Science Intern at Amazon

July 2021 - October 2021

Organization: Customer Behavior Analytics

I constructed a model that learns conditional distributions for regression problems.

I used a Mixture Density Network (MDN) model.

Technologies: Python (TensorFlow, PySpark), AWS EMR, Sagemaker, Zeppelin, S3

**Teaching Collaborator at Faculty of Computer Science,
Alexandru Ioan Cuza University of Iasi**

October 2020 - February 2021

'Machine Learning', BSc, 3rd year, 1st term, three seminars/groups of students

**Research Assistant/Programming Analyst at Faculty of
Computer Science, Alexandru Ioan Cuza University of Iasi**

February 2020 - February 2021

**Teaching Collaborator at Faculty of Computer Science,
Alexandru Ioan Cuza University of Iasi**

October 2019 - February 2020

'Machine Learning', BSc, 3rd year, 1st term, three seminars/groups of students

**Teaching Collaborator at Faculty of Computer Science,
Alexandru Ioan Cuza University of Iasi**

October 2018 - February 2019

'Machine Learning', BSc, 3rd year, 1st term, three seminars/groups of students

Research Assistant/System Engineer at Faculty of Computer Science, Alexandru Ioan Cuza University of Iasi

November 2017 - June 2019

Teaching Collaborator at Faculty of Computer Science, Alexandru Ioan Cuza University of Iasi

October 2017 - February 2018

'Machine Learning', BSc, 3rd year, 1st term, three seminars/groups of students

Programmer Intern at RomSoft

July 2016 - September 2016

I contributed to a project involving real estate data from the USA. I used the R programming language and applied some Machine Learning models.

The project was in collaboration with the Faculty of Computer Science within 'Alexandru Ioan Cuza University' of Iasi.

Education

'Alexandru Ioan Cuza' University of Iasi

Doctoral degree, Computer Science, 2019 -

Title: Contributions in Probabilistic Machine Learning

PhD papers:

1. (+presentation) Semantic Image Inpainting via Maximum Likelihood
2. (+presentation) Fixed Representatives and Variable Features: From Regularized Deep Clustering to Classic Clustering
3. A Factor Analysis Perspective on Linear Regression in the 'More Predictors than Samples' Case
4. (+presentation) Vanilla Probabilistic Autoencoder
5. (+presentation) Mixtures of Normalizing Flows

Technologies: Python, R, TensorFlow, TensorFlow Probability, scikit-learn

'Alexandru Ioan Cuza' University of Iasi
Master's degree, Advanced Studies in Computer Science
(research-based), 2017 - 2019

MSc Thesis: "Exploiting a new probabilistic model: S2FA - Simple Supervised Factor Analysis"

Symposium Presentations:

2. FROM (Working Formal Methods Symposium), Timișoara, 3-5 September 2019, short paper: An Application of the EM algorithm and Gaussian Processes in Bioinformatics – Sebastian Ciobanu, Liviu Ciortuz

1. SNCSSM (Sesiunea Națională de Comunicări Științifice Studențești de Matematică), Iași, 4-7 July 2019: Exploiting a new probabilistic model: S2FA – Sebastian Ciobanu, Liviu Ciortuz

Research themes per semester/term:

Term 3. Deep Gaussian Mixture Models

Term 2. Applications of the EM algorithm and Gaussian Processes

Term 1. Forecasting natural gas consumption

'Alexandru Ioan Cuza' University of Iasi
Bachelor's degree, Computer Science, 2014 - 2017

"Visualization and analysis of spatial data"

"Mihai Eminescu" National College, Botoșani
Baccalaureate Diploma, Mathematics and Computer Science,
2010 - 2014
