

Sebastian Baron MSc.



Date of Birth: 28.11.1995

Nationality: Austria

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📁 Work Experience

📅 10/2024 📍 SALZBURG, AUSTRIA

Ph.D. Position University of Salzburg

Dissertation Topic: Sleep Analysis using low-cost wearables and Deep Learning

📅 10/2022 📍 SALZBURG, AUSTRIA

Research Assistant IDA Lab Salzburg

Project-based work in the areas of digital twins as well as large language models (LLMs)

📅 09/2022 📍 SALZBURG, AUSTRIA

Machine Learning Researcher sleep2 - wake up like new

Continuation of the project "The virtual sleep lab" within the framework of NUKKUAA GmbH.

📅 01/2021 – 08/2022 📍 SALZBURG, AUSTRIA

Project Student University of Salzburg

Development of deep learning models for sleep stage classification within the framework of the project "The virtual sleep lab"

📅 09/2020 – 10/2020

📍 WALS-SIEZENHEIM, SALZBURG, AUSTRIA

Machine Learning Researcher Sanitas Medizintechnik GmbH

Machine learning / deep learning algorithm development with R and Python

📅 10/2017 – 09/2019

📍 INNSBRUCK, TYROL, AUSTRIA

Student Employee and Tutor University of Innsbruck

Student employee at the Institute for Financial Science and tutor for public sector economics

📅 03/2019 – 08/2019 📍 VIENNA, AUSTRIA

Data Analyst Oesterreichische Nationalbank

Analysis and programming activities (R, VBA) in the department of statistics, models, supervision and credit analysis

📁 Work Experience

📅 08/2017 – 09/2017

📍 REUTTE, TYROL, AUSTRIA

Internship EWR - Elektrizitätswerke Reutte AG

Data Analysis and Database Programming

🎓 Education

📅 01/2022 – 12/2025

Digital and Analytical Sciences | Doctor of Philosophy - PhD Paris Lodron University Salzburg

📅 01/2019 – 12/2022

Data Science | Master Paris Lodron University Salzburg

📅 01/2022 – 12/2022

Data Science (Exchange student) | Master's degree Aalto University

Semester abroad within the framework of the Data Science Master's programme

📅 01/2016 – 12/2019

Business Administration | Bachelor of Science - BS Leopold-Franzens University Innsbruck

📖 Publications

📅 03/2024

Interoperability in Production Networks: Digital Communication with Semantic Integration Patterns White Paper, Project Consortium i-Twin, Salzburg Research

<https://www.maintenance-competence-center.at/i-twin/interoperabilitaet-in-produktionsnetzwerken/>

Publications

11/2023

From Pulses to Sleep Stages: Towards Optimized Sleep Classification Using Heart-Rate Variability Sensors

<https://doi.org/10.3390/s23229077>

05/2023

Generalisability of sleep stage classification based on interbeat intervals: validating three machine learning approaches on self-recorded test data

Behaviormetrika

<https://link.springer.com/article/10.1007/s41237-023-00199-x>

02/2023

The Virtual Sleep Lab—A Novel Method for Accurate Four-Class Sleep Staging Using Heart-Rate Variability from Low-Cost Wearables

Sensors

<https://www.mdpi.com/1424-8220/23/5/2390>

09/2022

Accurate 4-class sleep scoring based on interbeat intervals using low-cost wearables

Journal of Sleep Research

<https://university-salzburg.elsevierpure.com/en/activities/accurate-4-class-sleep-scoring-based-on-interbeat-intervals-using>

11/2025

Exploring the bidirectional within-subject relationship between sleep and affective wellbeing: Insights from an intensive longitudinal study

International Journal of Clinical and Health Psychology

<https://doi.org/10.1016/j.ijchp.2025.100648>

02/2025

The role of objective sleep duration, continuity, and architecture for subjective sleep perception: Findings from an intensive longitudinal study using heart-rate variability to infer objective sleep indicators

Sleep Medicine

<https://doi.org/10.1016/j.sleep.2025.02.040>

Skills

LANGUAGES


German
Native

English
Excellent

Spanish
Basic knowledge

PROGRAMMING LANGUAGES

Python



R



Matlab



SQL



Java



Julia



Awards

Dean's List nomination
Innsbruck University

Recognition award at the Student-of-the-year nomination
Innsbruck University

Merit-based Scholarship
Deutschen Freundeskreis der
Universitäten in Innsbruck e.V.

Bachelor's Thesis: "International Differences in Technical Growth Rates According to Solow's Neoclassical Growth Model"

Merit-based Scholarship
Salzburg University

Master's Program in Data Science