# Niklas Weber







#### **Education**

#### 04/2022 Ludwig-Maximilians-Universität-Munich Doctoral Researcher

- Research area: Systemic risk, default propagation in networks and machine learning
- Current project: Scenario based capital allocation to minimize systemic loss in financial 0 networks via Graph Neural Networks (Python)
- Teaching assistant of several lectures, e.g., lin. algebra, optimization, comp. finance 0
- Initiator and teacher of an Interview Preparation Class for students of mathematics

# 09/2021

#### Alma Mater Studiorum Università di Bologna M.Sc. Quantitative Finance, Double Degree

- -03/2022
- Final grade: 110/110 cum laude
- Erasmus+ / Double Degree 0
- Project: Implementation of a Trinomial Tree for Interest Rates (Python) 0

## 10/2019 -03/2022

#### Ludwig-Maximilians-Universität-Munich M.Sc. Financial Mathematics, Double Degree

- Final grade: 1.08 (very good)
- GrEnFIn Greening Energy Market and Finance European Erasmus+ Project: GrEnFIn Summer School 2020 (Bologna), GrEnFIn Summer School 2021 (Katowice), GrEnFIn Pilot Class 21/22 of LMU
- Thesis: Signature Regression and an application to Credit Cycle Forecasting (Python), Grade: 1.0 (very good)
- Project: Automatic algorithmic differentiation (Java finmath library) 0
- Project: Variance reduction for option pricing (Java finmath library) 0

# 10/2016

## Ludwig-Maximilians-Universität-Munich B.Sc. Business Mathematics

-09/2019

- Grade: 1.48 (very good)
- Thesis: Static replication of window double barrier options (Matlab), Grade: 1.0

# 09/2007

#### Gabriel-von-Seidl Gymnasium Bad Tölz Abitur

- 06/2015

- Abitur: 1.6 (good)
- Final examinations: German, Mathematics, Physics, Latin, Philosophy 0
- Seminar Thesis: LEDs and solar panels 0

# **Experience**

#### 05/2020

#### **Institute for Finance and Banking, LMU** Student Research Assistant

- 07/2021

- Webscraping of Wikipedia articles (Python) 0
- Creating an ontology of business-related keywords for text classification (Matlab)

#### 04/2018

#### **Department of Mathematics, LMU** *Tutor*

#### -02/2021

- Tutoring students solving exercises
- Presenting the solutions in class 0
- Correcting exercise sheets 0
- Lectures: financial mathematics, optimization and stochastics. 0

#### 10/2019

#### **Bayerische Landesbank, Munich** *Intern Financial Markets*

-01/2020

- Drafting and implementing of a hedging tool that optimizes portfolios of different currencies using FX-Forwards and graphically illustrates the results (Excel VBA)
- o Assisting the CVA desk with daily tasks, e.g. CVA model validation

#### 02/2019

#### **Versicherungskammer Bayern, Munich** *Intern Accounting*

- 04/2019

- Supporting annual accounts by answering auditors' ad hoc requests
- o Implementing macros in Excel VBA to automize reoccurring tasks
- Preparing of presentations about work-from-home, flexible-working-hours and coworking-space topics within the "Group Diversity"
- O Conducting early-stage research regarding the feasibility of a chatbot for the accounting team

# **Engagement**

### 09/2022

Beta Sigma Club Munich / LMU Munich Quantitative Finance Club

- o Quant Finance Interview Preparation Course: founder and lecturer
- Beta Sigma Club: Member, Supported founding of Munich branch by advertising Beta
  Sigma Club and recruiting board members

#### 10/2016

#### **LMU Munich** Student Council

-05/2022

- Math student's speaker 2017 2019
- o Elected representative 2017 2020
- Student member of several committees (appointment committee, accreditation committee)

#### 09/2012

#### Gabriel-von-Seidl Gymnasium Bad Tölz Student Council

- 06/2015

- Cohort representative year 10, 11 and 12
- Founder and editor of two pupil's magazines

#### **Promotion**

#### 04/2020

#### Deutschlandstipendium

-03/2022

- Shared scholarship of federal government and private sponsors for high-achieving and committed students
- Sponsor: Allianz Deutschland (both 2020/2021 and 2021/2022)

#### 10/2014

#### Jugend Aktiv e.V.

- 04/2015

Promotes very good and committed pupils with rhetoric seminars and mentoring

#### **Skills and Interests**

Languages: German (mother tongue), English (TOEFL 109), Italian (A2)

IT: Python (advanced), Java (advanced), MATLAB (advanced), Excel VBA (good), R (basic), C++ (basic), MS Office (advanced)

Interests: Trading Challenges (RTG, Prosperity), Strategy Games, Motorcycling Soccer, HIIT

Munich, 26.07.2023

N. Wesel