Dirk Hornung, Ph.D.

City: Barcelona

Date of birth: 5th of October, 1991
Place of birth: Fulda, Germany
Mobile: +34 695460404

E-mail: dirkhornung91@gmail.com Website: www.dirkhornung.com



Professional Experience

2004 - present Serious Entrepreneur

Hornung Webdesign, Eevents, Fulda Strategy Group Gbr, FuldaC-

ity, WeGoLoco, 17

Mai 2019 - January 2019 CYSAE

CTO

Utility Token for Cuatre Casas, Certifying documents with the help

of Ethereum, Enterprise Democracy on Chain

October 2017 - April 2019 Alda

CTO & Co-Founder

Fintech Chatbot helping Millenials in Financial Education

Education

2015 - 2019 Ph.D., Theoretical Physics, Autonomous University of Barcelona (Spain)

Thesis: The QCD Strong Coupling from Hadronic Tau Decays

Supervisor: Dr. Matthias Jamin

2014 - 2015 M.Sc., Particle Physics, Autonomous University of Barcelona (Spain)

Thesis: 1-Loop Anomalous Dimensions of 4-Quark Operators

Supervisor: Dr. Matthias Jamin

2011 - 2014 B.Sc., Condensed Matter Physics, Goethe University Frankfurt (Germany)

Thesis: Band Structure Studies of Graphene and Modified Graphene Structure

Supervisor: Prof. Dr. Roser Valentí

Relevant Skills

- Javascript, Swift, PHP, SQL, CSS, HTML - Data & Statistics Analysis

- React, React Native, Meteor, Laravel

- AWS (DynamoDB, S3, Cognito, Lambda)

- Wordpress, Goole Analytics, SEO

- Fortran, C++, Solidity
- Matlab, Mathematica

- Photoshop, Illustrator, After Effects
- Unix Shell, Linux

Funding

2015 - present Ph.D. PIF grant at the Autònoma de Barcelona (Spain), 1200 / month

Teaching Experience

2015 - 2018	Universitat Autònoma de Barcelona, Theoretical Mechanics/ Quantum Mechanics
	I/ Quantum Mechanics II, Complex Numbers/ Teaching Assistant (spanish)
2014	Goethe Universität Frankfurt, Quantum Mechanics I , exercise tutor
	Goethe Universität Frankfurt, Math for Physicists II, exercise tutor
2013 - 2014	Goethe Universität Frankfurt, Math for Physicists I, exercise tutor

Publications

2015 Diogo Boito, **Dirk Hornung**, Matthias Jamin

"Anomalous dimensions of four-quark operators and renormalon structure of mesonic two-point correlators" $arXiv:1510.03812\ [hep-ph]$

Oral presentations

- 2018 Aix Marseille Université, "Determination of the QCD Coupling from ALEPH τ -Decay data"
- 2015 Universitat Autònoma de Barcelona, Master Thesis Defense of : "1-Loop anomalous dimensions of 4-quark operators"
- 2014 Goethe Universität Frankfurt, Group Seminar Talk: "Band structure studies of graphene and modified graphene structures"

Languages

German: native
English: proficient
Spanish: proficient
French: intermediate

Hungarian: basics