KYLE SCHEPS
Born on December 18th, 1997; Nationality: Swiss

PERSONAL INFORMATION

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EDUCATION

MASTER'S IN FINANCIAL ANALYSIS (MFA) AT LONDON BUSINESS SCHOOL (2020-2021)

- In progress

INTEGRATED MASTER'S DEGREE IN PHYSICS WITH THEORETICAL PHYSICS AT IMPERIAL COLLEGE LONDON (2016-2020)

- **1st Class Honours,** including courses in Quantum Computing / Information, General Relativity, Cosmology, Unification, Quantum Field Theory, String Theory.
- **Computer Languages**: C++/Root, Python
- **Projects**:

    - **String Theory and T-Duality (2019-2020):** Thesis on String Theory, T-Duality, and Extended Geometries. I studied the fundamentals of bosonic string theory and analysed the effects of compactifying dimensions on strings – focusing on T-duality.
    - **Higgs Boson Research (2018-2019)**: I reviewed evidence gathered by the ATLAS and CMS detectors at the LHC, corroborating and/or falsifying the existence of The Standard Model Higgs Boson.
    - **Quantum Computing (2017-2018)**: I wrote an article reviewing theory and applications of Quantum Computing, and compared the market leaders in the field.
    - **Higgs and Machine Learning (2016-2017)**: I analysed simulated data from the Tevatron particle accelerator using Neural Networks to find supersymmetric Higgs Bosons.

INTERNATIONAL SCHOOL OF GENEVA, LA GRANDE BOISSIÈRE (2000.09 TO 2016.06)

- International Baccalaureate with 40 Points (maximum 45) in: Higher level Maths, Physics, Chemistry and Standard level French, English, History.

WORK EXPERIENCE

INTERNSHIP AT MELLANOX (SUMMER 2019, TEL-AVIV):

- Mellanox is a leading end-to-end high-speed interconnect provider which delivers Ethernet and InfiniBand for data centres and high-performance computers (HPCs). In 2019, Mellanox was acquired by Nvidia for $7bn. I worked in Mellanox's Advanced Technology Group, researching the use of Quantum Computing and Networking technology in HPCs. I also raised awareness for my research by presenting to key teams within the business and co-drafted a patent application for the use of quantum interconnect in HPCs which has been submitted to the US patent office.

INTERNSHIP AT CONVERGE (SUMMER 2017 AND 2018, LONDON):

- Converge is a startup that uses AI and sensors to optimise the efficiency and sustainability of the construction industry. The startup has raised over $10M and is working with some of the world's largest construction groups to digitise the physical world on construction sites. I supported financial modelling and forecasting for Converge's £2 million seed round, helped write grant applications worth circa. £500k to fund new R&D development streams and supported the production of management accounts.

TEACHING ASSISTANT IN HIGHER LEVER MATHEMATICS (2013-2016, GENEVA):
- I worked with the head of mathematics at the International School of Geneva, teaching supplementary IB higher level classes outside of regular school hours.

AWARDS/CERTIFICATES

- Certificate of Academic Distinction, International School of Geneva (2015, 2016).
- Duke of Edinburgh Award, The Gold Standard.
- Certificate of distinction in the Fermat mathematical contest.

OTHER INTERESTS

- Music – I have sung and performed before large audiences many times.
- Basketball – Played competitively throughout most of high school (until 2016). Have won several medals, ranking 1st, 2nd and 3rd in tournaments.
- Volunteering – taught autistic patients how to play videogames at the MAITAL Occupational Day Centre for Autists in Jerusalem and helped host soup kitchens for the homeless in Geneva.

LANGUAGES

- Fluent in French, English, Hebrew.
- Conversational Spanish