FRANCESCO PICCOLI

Berkeley, CA | (510)-833-8805 | francesco_piccoli@berkeley.edu | LinkedIn | GitHub | Website

EDUCATION

University of California, Berkeley, USA **August 2019 – May 2020**

Master of Engineering in Industrial Engineering and Operations Research – GPA: 3.89

- *Key Coursework:* Applied Data Science with venture applications, Application in Data Analysis, Data Management, Learning and Optimization, Digital Platform Strategy, R&D Technology management & Ethics, Communications for Engineering Leaders, Coaching for high-performance teams, MBA International Finance, MBA Investing (Haas Business School).
- *MEng Opportunity Grant* recipient

Polytechnic University of Turin, Italy **September 2016 – July 2019**

BSc in Aerospace Engineering – GPA: 3.89 – Final evaluation: 110/110 cum laude (top 4%)

- ***Bachelor Thesis****: "Neural Networks for modelling and guidance of UAVs in urban environments*". Developed a Deep Reinforcement Learning algorithms to solve the path planning problem of an unmanned aerial vehicle (UAV). Built an interactive user interface with QML.
- *Young Talents project:* selected as one of the top 5% students to participate in a 3-year program of excellence.
- *EU/Young Talents Program:* recipient of a competitive mobility grant to spend a semester at **UPM, Madrid** (1/2019-6/2019)

PROFESSIONAL EXPERIENCE

Ripple **September 2019 – present**

Data Scientist - Team Lead, UC Berkeley MEng Capstone project San Francisco, CA

- Extracted and analysed large datasets with millions of transactions using SQL and Google BigQuery.
- Built a database on AWS that updates daily with information gathered from different APIs and deployed a UI on Heroku.
- Gathered real-time data with the Ripple Data API and built an anomaly detection system that notifies the team about anomalies on Ripple's ledger through Slack.
- Managing an international team of 7 people, conducting the weekly meetings, and designing the direction of the project.

Volvo Cars **January 2020 – present**

Deep Learning Researcher – Data-X Capstone project Berkeley, CA

- Collaborative research between Volvo Cars, UC Berkeley, and Chalmers University for pedestrian intention recognition
- Built an online, end-to-end system that analyzes information from videos acquired using vehicles' front-facing cameras and can interface with autonomous driving functionalities for smart collision avoidance.
- Using YOLO for detection, DeepSORT for tracking, and a spatio-temporal DenseNet to predict pedestrian intentions.

Haas Impact Fund **January 2020 – present**

Founding Venture Partner Berkeley, CA

- Leading sourcing, diligence, and portfolio stewardship of early-stage social enterprises in the sustainable products sector.
- Pitching recommendations to the panel of partners for up to $100,000 equity investment from the Haas Impact Fund.

RoBin **October 2019 – present**

Founder *Berkeley*, CA

- Designing and building computer-vision algorithms and a robotic product to transform the way we think about recycling.
- Recruited and currently managing an international team of 8 people ranging from Software Engineers to MBAs.
- Built and trained neural network architectures that reached 91% accuracy in identifying 6 different types of waste.
- Incubated at Berkeley SkyDeck, finalist at the Hult Prize competition, NSF I-Corps participant.

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

- **Ripple XPring Blockchain Interoperability Hackathon** *(Berkeley, October 2019):* Won "Best Enterprise" award for creating and pitching an application of Blockchain to prevent housing market fraud.
- **Data Analyst – WAW, Well-being At Work** *(Berkeley, October 2019- January 2020):* Built a machine learning model to predict the risk of burnout in employees and provide customized solutions to prevent it. Used the Google Cloud NLP API for sentiment analysis of Tweets. Selected for Berkeley StEP, an 8-week experiential program to build an MVP and a business model from an early-stage idea.
- **Co-Founder – Uperitive** *(Turin, December 2017- September 2018):* Recruited and managed a team of 6 university students to develop a business idea for a smartphone platform. Pitched the idea in front of investors and professors at Demo Day.
- **Co-Founder – Team Hypercube** *(Turin, September 2017- September 2018):* Recruited and led a group of 7 university students who participated in an engineering contest of the School of Aerospace Engineering of the Sapienza University of Rome, designing a payload focused on Space Weather for a small satellite (CubeSat).

SKILLS & INTERESTS

Technical: Python, R, SQL, Matlab, AMPL, C, Fortran, QML, SolidWorks, LateX, Google Colab, GitHub, TensorFlow, Keras
Languages: *Italian* (native speaker), *English* (Toefl ibt 108), *Spanish* (fluent), *French* (Delf B2), *Latin* (basic), Ferrarese dialect (fluent)
***Interests*:** Soccer, swimming, skiing, reading, Italian cuisine