

DR DAVID PALAZZO

Software Engineer

@ david.pala89@gmail.com

☎ +44 7946226430

✉ 10 Queen Street, Stirling, FK8 1HN

PROFILE

I am a passionate software engineer who is enthusiastic about learning new skills and acquire new knowledge. I can offer the job market my excellent analytical thinking, problem-solving skills and technical expertise, which I developed through my academic studies and experience in a competitive industry environment.

WORK EXPERIENCE

Python Software Engineer

JPMorgan Chase & Co.

📅 May 2019 – Present 📍 Glasgow, UK

- Delivering robust and resilient code in an Agile framework, together with strong and reliable unit tests.
- Led the development of a web business application (full-stack). Went from learning the foundations of web development to building a robust web application in a short time scale, while managing stakeholders' expectations.
- Contributed to the development of a back-end application for derivative valuations, which generates substantial monthly savings for our clients.
- Enhanced and refactored the integration tests for the local deal booking system. Improved their overall performance by over 50%.
- Actively bolstering my skills and knowledge by studying advanced books such as "Fluent Python" by L. Ramalho, or "Hands-On machine Learning with Scikit-Learn, Keras and TensorFlow" by A. Géron.

Doctoral Researcher

University of Glasgow

📅 Nov 2014 – Jan 2019 📍 Glasgow, UK

- Discovered new connections between the theories of symmetric functions and quantum integrable systems.
- Developed new combinatorial algorithms for the computation of fusion coefficients of 2D TQFTs.
- Disseminated research findings to broad audiences at national and international conferences.

Graduate Teaching Assistant Lecturer

University of Glasgow

📅 Sep 2017 – Mar 2018 📍 Glasgow, UK

- Delivered lectures to large classes of first year students. Received highly positive student feedback.
- Led groups of first and second year students in tutorials, helping them to achieve strong results in assignments and exams.

TECH SKILLS

- Python, Unittest
- HTML5, CSS3
- JavaScript, TypeScript, ReactJS, Jest, Enzyme
- SQL

EDUCATION

PhD in Mathematics

University of Glasgow

📅 Nov 2014 – Jan 2019 📍 Glasgow, UK

Master's Degree in Theoretical Physics

University of Bologna

📅 Sep 2012 – Oct 2014 📍 Bologna, Italy

Bachelor's Degree in Physics

University of Bologna

📅 Sep 2008 – Mar 2012 📍 Bologna, Italy

Diploma in Cello

Conservatoire of Padova

📅 Sep 2011 📍 Padova, Italy

PUBLICATIONS

- C. Korff and D. Palazzo. Cylindric symmetric functions and positivity. *Algebr. Comb.*, 3(1):191-247, 2020.
- D. Palazzo. *Cylindric Symmetric Functions and Quantum Integrable Systems*. PhD thesis, University of Glasgow, 2019.
- C. Korff and D. Palazzo. *Cylindric Reverse Plane Partitions and 2D TQFT*. Extended abstract submitted to FPSAC 2018.