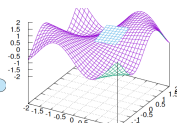
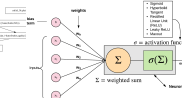
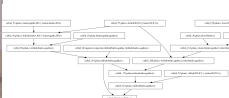


I am looking for **PhD** applicants in the following areas:

- 1 Automated theorem proving:** equational reasoning, ATP, SAT, SMT. Theory, implementation and applications.
- 2 Verification of hardware and software:** bounded/unbounded model checking.
- 3 Optimization and Verification** of systems represented using **neural networks and machine learning models**. Collaboration with **Intel** or real-life problems.
- 4 Non-linear constraint solving** with trigonometric functions.
- 5 Neuro-symbolic reasoning.** Machine learning guidance for theorem proving using reinforcement learning, graph neural networks, transformers.



For more details please email: [konstantin.korovin@manchester.ac.uk](mailto:konstantin.korovin@manchester.ac.uk)