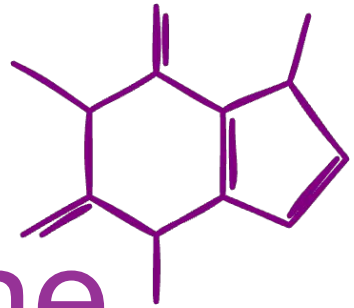
Mentees :

- Luis Eduardo Martínez Hérnandez
- Ansah Mohammad Kuriyodath
- Michaël Rollin

Mentor : Iskandar Sitdikov



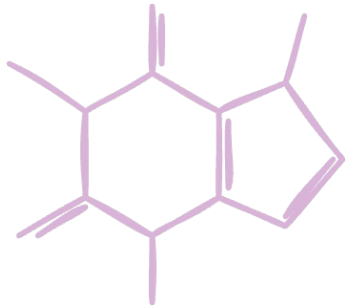
PurpleCaffeine

Tracking quantum experiments

What? and why?

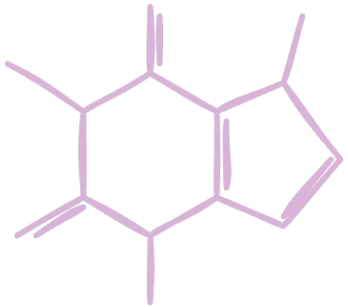
PROBLEM:

- Lot of experiments with lot of data
- Jupyter notebook cells are always overwritten, it is hard to remember what parameters were used and which results you got in previous executions
- No sharing between researchers



Video

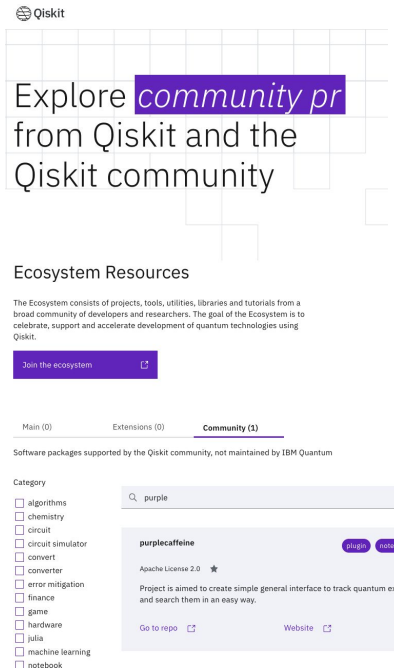
MVP goals 100% ✅

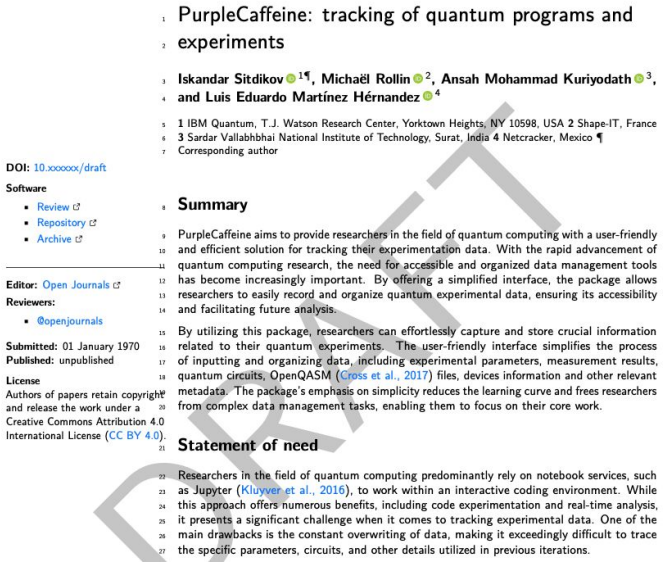


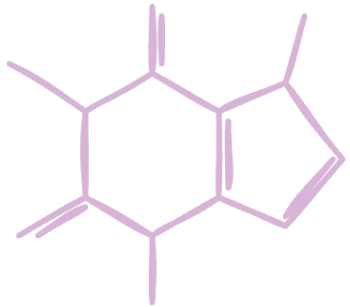
- Functional US :
  - Working python lib with local backend ✅
  - Working python lib with Api backend ✅
  - Saving artifacts with experiment ✅
  - Importing/sharing external experiments ✅
- No-functional US :
  - Documentation ready ✅
  - Tests ✅
  - Fully automated CI ✅
- Client backend
  - Data storage ✅
  - Data retrieval ✅
  - Integration with API backend ✅
- API backend
  - Data sending ✅
  - Data storage ✅
  - Production deployment ✅
- Docker
  - Development image ✅
  - Production image ✅

Optional goals

- S3 backend ✅
- Publication in Journal of Open Source Software (JOSS) 🔁
  Under review
- Add to Qiskit Ecosystem ✅

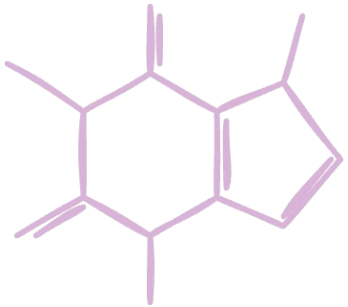




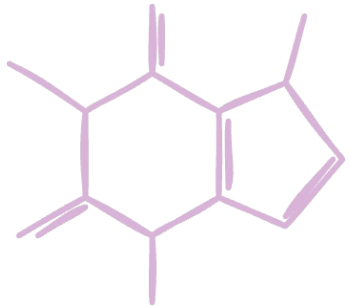


Demo

Links



- https://github.com/IceKhan13/purplecaffeine



Thank you!